Baseline Water Quality Data

Inventory and Analysis

Hovenweep National Monument



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

HOVENWEEP NATIONAL MONUMENT

National Park Service
Water Resources Division
Fort Collins, CO 80525

Technical Report NPS/NRWRD/NRTR-99/251

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EXECUTIVE SUMMARY

This document presents the results of surface-water-quality data retrievals for Hovenweep National Monument (HOVE) 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 no industrial/municipal dischargers; no drinking water intakes; three active or inactive U. S. Geological Survey (USGS) stream gages; and one water impoundment. The results of the STORET retrieval for the study area yielded 11,791 observations for 268 separate parameters collected by the NPS, USGS, EPA, U. S. Bureau of Reclamation (USBOR), and Colorado Department of Health and Environment (CDH) at 63 monitoring stations from 1901 through 1997[†]. Approximately 45 percent of the 11,791 observations within the study area were collected by the USGS from 1954 through 1997. Of the 63 monitoring stations, seven stations were located within the park boundaries. Of the seven stations within the park boundaries, three stations were within the Square Tower Group; two were within the Horseshoe and Hackberry Group; one was within the Holly Group; and one was within the Cajon Group. Nine USBOR stations within the study area (none within the park boundaries) were established but did not contain data.

Most of the monitoring stations represent either one-time or intensive single-year sampling efforts by the collecting agencies. Three stations within the study area, but outside of 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 longer-term records within the study area are: (1) McElmo Creek west of Cortez, CO (HOVE 0040); (2) McElmo Creek near the Colorado-Utah State Line (HOVE 0044); and (3) McElmo Creek below Cortez, CO (HOVE 0038)[††].

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

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[†]Of the 11,791 observations reported in the study area, one elevation value, entered in STORET by the CDH, was dated 01/01/01. The second oldest observation in STORET for the HOVE study area was collected in 1954. Consequently, a more representative period of record for observations in the study area would be from 1954 through 1997.

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

the exceeded criteria in this report. The results of the HOVE water quality criteria screen found 14 groups of parameters that exceeded screening criteria at least once within the study area. The pH, cadmium, copper, lead, selenium, and zinc exceeded their respective EPA criteria for the protection of freshwater aquatic life. Nitrate, nitrite plus nitrate, sulfate, cadmium, chromium, lead, and nickel exceeded their respective EPA drinking water criteria. Fecal-indicator bacteria concentrations (total coliform and fecal coliform) and turbidity exceeded the WRD screening limits for freshwater bathing and aquatic life, respectively.

The pH was measured 649 times at 41 monitoring stations from 1959 through 1997. Five observations at four stations, in McElmo Creek (HOVE 0040, HOVE 0042, HOVE 0044) and a spring in Moccasin Canyon (HOVE 0041), were outside the pH range of 6.5 to 9.0 standard units (SU) (EPA chronic criteria for freshwater aquatic life) from 1977 through 1992. Three observations, ranging from 9.0 SU to 10.4 SU at two stations in McElmo Creek (HOVE 0040, HOVE 0044), were greater than or equal to pH 9.0 from 1978 through 1992. The highest pH of 10.4 SU was reported in McElmo Creek west of Cortez, CO (HOVE 0040) in May 1980. Two observations of 6.4 SU at two stations, a spring in Moccasin Canyon (HOVE 0041) and McElmo Creek (HOVE 0042), were less than pH 6.5 in August and September 1977, respectively.

Turbidity concentrations were measured 70 times at two monitoring stations in McElmo Creek (HOVE 0040, HOVE 0044) from 1968 through 1981. Fifty-five concentrations at the two stations, west of Cortez, CO (HOVE 0040) and near the Colorado-Utah state line (HOVE 0044), equaled or exceeded the WRD screening criterion of 50 Jackson Candle/Formazin/Nephelometric Turbidity Units (JTU/FTU/NTU) from 1968 through 1981. Approximately 93 percent of the observations exceeding the criterion were reported in McElmo Creek west of Cortez, CO (HOVE 0040) from 1968 through 1980, including the highest concentration of 12,000 FTU in November 1977.

Total coliform concentrations were measured 57 times in McElmo Creek west of Cortez, CO (HOVE 0040) from 1968 through 1978. Fifty-one concentrations exceeded the WRD bathing water screening criterion of 1,000 Colony Forming Units/Most Probable Number per 100 milliliters (CFU/MPN/100 ml) from 1968 through 1978. The highest concentration of at least 542,000 MPN/100 ml was reported in May 1968. Fecal coliform concentrations were measured 101 times at two monitoring stations in McElmo Creek (HOVE 0040, HOVE 0044) from 1968 through 1982. Of the 99 observations used in the criteria analysis (see EPA Water Quality Criteria Analysis for Station in the Interpretive Guide To Water Quality Results for explanation), 60 observations at the two stations, west of Cortez, CO (HOVE 0040) and near the Colorado-Utah state line (HOVE 0044), exceeded the WRD bathing water screening criterion of 200 CFU/MPN/100 ml from 1968 through 1981. Approximately 85 percent of the observations exceeding the criterion were reported in McElmo Creek west of Cortez, CO (HOVE 0040) from 1968 through 1981, including the highest concentration of 430,000 MPN/100 ml in November 1977.

Nitrate concentrations (including dissolved and total as N and dissolved as NO_3) were measured 74 times at ten monitoring stations from 1954 through 1994. Six concentrations at two stations, McElmo Creek west of Cortez, CO (HOVE 0040) and within the Horseshoe and Hackberry Group at Hackberry House Spring (HOVE 0047), equaled or exceeded the drinking water criteria of 10 milligrams per liter (mg/L) for nitrate as N or 44 mg/L for nitrate as NO_3 from 1969 through 1994. Five nitrate as N concentrations, ranging from 10 mg/L to 17.9 mg/L at the two stations, equaled or exceeded the drinking water criterion of 10 mg/L for nitrate as N from 1969 through 1994. One dissolved nitrate as NO_3 concentration of 79.3 mg/L within the Horseshoe and Hackberry Group at Hackberry House Spring (HOVE 0047) exceeded the drinking water criterion of 44 mg/L for nitrate as NO_3 in September 1994.

Nitrite plus nitrate concentrations (including dissolved and total) were measured 98 times at ten monitoring stations from 1977 through 1994. One concentration of 12 mg/L in McElmo Creek west of Cortez, CO (HOVE 0040) exceeded the drinking water criterion of 10 mg/L in November 1981.

Sulfate concentrations (including dissolved and total) were measured 471 times at 20 monitoring stations from 1954 through 1997. Two-hundred-twenty-three concentrations at 14 monitoring stations exceeded the secondary drinking water criterion of 250 mg/L from 1954 through 1997. Approximately 92 percent of the observations exceeding the criterion were reported at three stations in McElmo Creek, near the Colorado-Utah state line (HOVE

0044), west of Cortez, CO (HOVE 0040), and below Yellow Jacket Canyon (HOVE 0056), from 1968 through 1997, including the highest concentration of 2,996 mg/L west of Cortez, CO (HOVE 0040) in November 1969.

Cadmium concentrations (including dissolved, suspended, total, and total recoverable) were measured 106 times at 13 monitoring stations from 1968 through 1994. Two dissolved concentrations at two stations within the Square Tower Group at the Square Tower Spring, 6 micrograms per liter (µg/L) at the east end (HOVE 0057) and 5 µg/L at the west end (HOVE 0058), exceeded the acute freshwater criterion of 3.9 µg/L and equaled or exceeded the drinking water criterion of 5 µg/L in September 1994.

Chromium concentrations (including dissolved, suspended, hexavalent, total, and total recoverable) were measured 96 times at 36 monitoring stations from 1968 through 1994. Fourteen dissolved concentrations at fourteen stream stations exceeded the drinking water criterion of 100 µg/L during 1977 and 1978. The highest concentration of 508 µg/L was reported in the creek draining Cross Canyon (HOVE 0062) in May 1978.

Copper concentrations (including dissolved and total recoverable) were measured 114 times at 36 monitoring stations from 1968 through 1994. Twenty-nine concentrations at 21 monitoring stations equaled or exceeded the acute freshwater criterion of 18 µg/L from 1976 through 1982. The highest concentration of 127 µg/L was reported in the creek draining Cross Canyon (HOVE 0062) in May 1978.

Lead concentrations (including dissolved, suspended, total, and total recoverable) were measured 119 times at 35 monitoring stations from 1968 through 1994. Of the 96 observations used in the criteria analysis (see EPA Water Quality Criteria Analysis for Station in the Interpretive Guide To Water Quality Results for explanation), 14 concentrations at four stations, in McElmo Creek (HOVE 0040, HOVE 0044) and within the Square Tower Group at the Square Tower Spring (HOVE 0057, HOVE 0058), exceeded the drinking water criterion of 15 µg/L from 1975 through 1994. Four of these 14 concentrations also exceeded the acute freshwater criterion of 82 µg/L from 1977 through 1994. Approximately 83 percent of the observations exceeding the criteria were reported at the two stations in McElmo Creek (HOVE 0040, HOVE 0044) from 1975 through 1980, including the highest concentration of 440 µg/L, reported twice in McElmo Creek near the Colorado-Utah state line (HOVE 0044), in May 1979.

Nickel concentrations (including dissolved, suspended, total, and total recoverable) were measured 51 times at 31 monitoring stations from 1977 through 1994. Nineteen concentrations at 18 stations exceeded the drinking water criterion of 100 µg/L from 1977 through 1979. The highest concentration of 1,198 µg/L was reported in the creek draining Cross Canyon (HOVE 0062) in May 1978.

Selenium concentrations (including dissolved, suspended, and total) were measured 103 times at 15 monitoring stations from 1968 through 1994. Five concentrations, ranging from 20 µg/L to 40 µg/L at four stations, in McElmo Creek (HOVE 0040, HOVE 0044) and within the Square Tower Group at the Square Tower Spring (HOVE 0057, HOVE 0058), equaled or exceeded the acute freshwater criterion of 20 µg/L from 1968 through 1994. The highest concentration of 40 µg/L was reported twice at the two stations at Square Tower Spring (HOVE 0057, HOVE 0058) in September 1994.

Zinc concentrations (including dissolved, suspended, total, and total recoverable) were measured 136 times at 36 monitoring stations from 1968 through 1994. Twenty-nine concentrations at twenty stations equaled or exceeded the acute freshwater criterion of 120 µg/L from 1968 through 1981. The highest concentration of 2,497 µg/L was reported at a spring north of the Goodman Point Group (HOVE 0027) in August 1977.

The IDEA conducted for HOVE indicates that STORET data exist for 12 of the 13 Level I parameter groups in the study area. No STORET data exist for the parameter group Chlorophyll. For eight parameter groups (Alkalinity, Conductivity, Water Temperature, Clarity/Turbidity, Nitrate/Nitrogen, Phosphate/Phosphorous, Bacteria, and Toxic Elements), less than 21 percent of the observations were recorded since 1985. Overall, approximately 22 percent of the observations for Level I parameter groups were recorded since 1985. Data for the groups Alkalinity, Dissolved Oxygen, Flow, Clarity/Turbidity, Nitrate/Nitrogen, Phosphate/Phosphorus, and Bacteria were recorded at less than half of the 54 monitoring stations with data. Relative to other parameter groups with data, data were

limited for the groups Dissolved Oxygen, Clarity/Turbidity, Phosphate/Phosphorus, and Bacteria. Results for 11 of the 126 EPA priority toxic pollutants (consisting of inorganic parameters and metals) were retrieved from STORET.

Surface water resources in the HOVE study area include McElmo, Littlewater, and other creeks; intermittent and perennial creeks and washes draining Yellow Jacket, Bridge, Hovenweep, Cross, and many other canyons; some small impoundments; several canals and aqueducts; some lakes and ponds; and Square Tower, Hackberry House, and many other springs. The data inventories and analyses contained in this report indicate a lack of longer-term records from stations throughout the study area. Of the 63 monitoring stations in the study area, just three stations, all in McElmo Creek, yielded longer-term records. Only one of these three stations (HOVE 0044) yielded records since 1982. Additionally, there is a shortage of recent observations for many Level I parameter groups in the study area. Without adequate data it is difficult to make definitive statements regarding water quality within the study area; however, from the available data, surface waters within the study appear to have been impacted by natural and human activities. Potential natural sources of contaminants include erosion from flash floods. Potential anthropogenic sources of contaminants include stormwater runoff; municipal and industrial discharges; mining and quarrying operations; oil and gas exploration; livestock grazing; recreational use; and atmospheric deposition.

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INTRODUCTION

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

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

Goal

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

Purpose

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

Objectives

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

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

2. Develop a complete inventory of all retrieved data;

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

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

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

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

Document Overview

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

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

Caveats

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

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

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

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

Key Personnel

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

National Park Service, Water Resources Division:

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

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

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

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

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

Clint Bassett and Amy Benton helped prepare reports and write the Executive Summaries.

Elizabeth Eisenhauer, Bill Folsom, Scott Ratchford, Jeff Ketcham, and Valdete Celaj provided digital cartographic support, both in determining retrieval/query areas and producing maps and graphics.

Kelli O'Connor, J. Chris Echohawk, Adam Henson, Ryan Shy, Lisa Dummer, Eric Lord, Adriane Petersen, Ronda Burns, Aria Brissette, Nancy O'Keeffe, Brett Atkinson, Paul Sorek, and Cara Ellis 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.

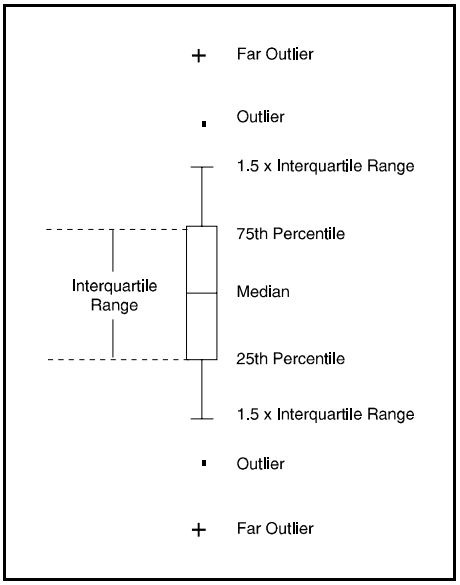
Table H. Definition of Descriptive Statistics Contained in Inventory, Annual, and Seasonal Tables

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 HOVE

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:	293735	804
# STORET Stations:	63	7
# Stations With No Data:	9	0
# Stations With No Stat. Analysis:	0	0
# Longer Term Stations:	3	0
Date of STORET Retrieval:	08/30/99	08/30/99
Period of Record:	01/01/01-03/10/97	05/01/59-09/14/94
# Parameters Measured:	268	48
# Water Quality Observations:	11791	223
# Industrial/Municipal Facilities:	0	0
# Drinking Water Intakes:	0	0
# Water Gages:	3	0
# Water Impoundments:	1	0
# Total Plots:	102	0
# Time Series:	40	0
# Annual:	25	0
# Seasonal:	37	0

Hydrologic Definition of Seasons:

1. July 1 - October 15
2. October 16 - December 31
3. January 1 - March 15
4. March 16 - June 30

Time Series Plot Criteria:

To be included in the time series plots, a station/parameter combination must have at least 10 years and at least 40 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.

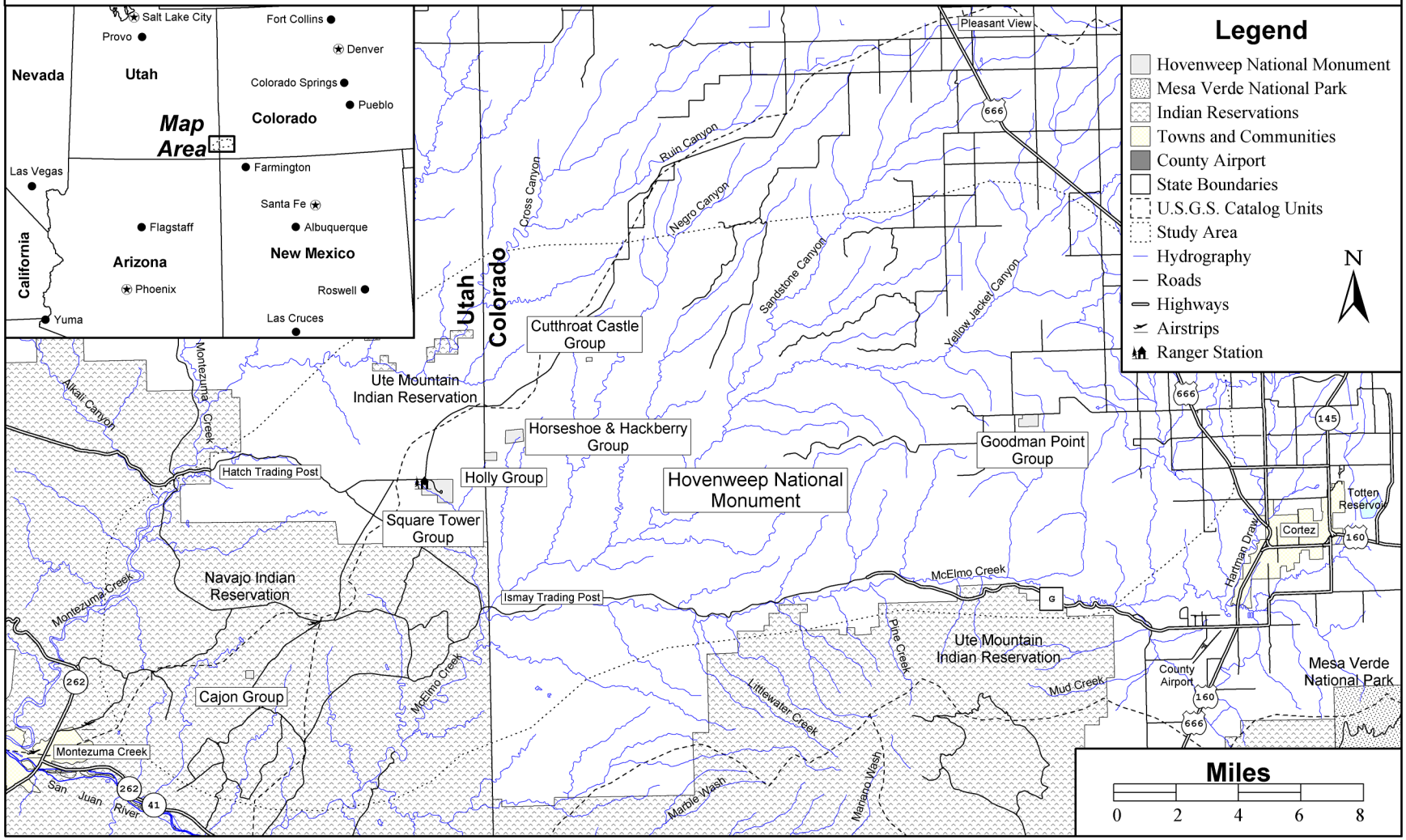
Seasonal Analysis Criteria:

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 12 years and observations in at least 4 of the 12 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.

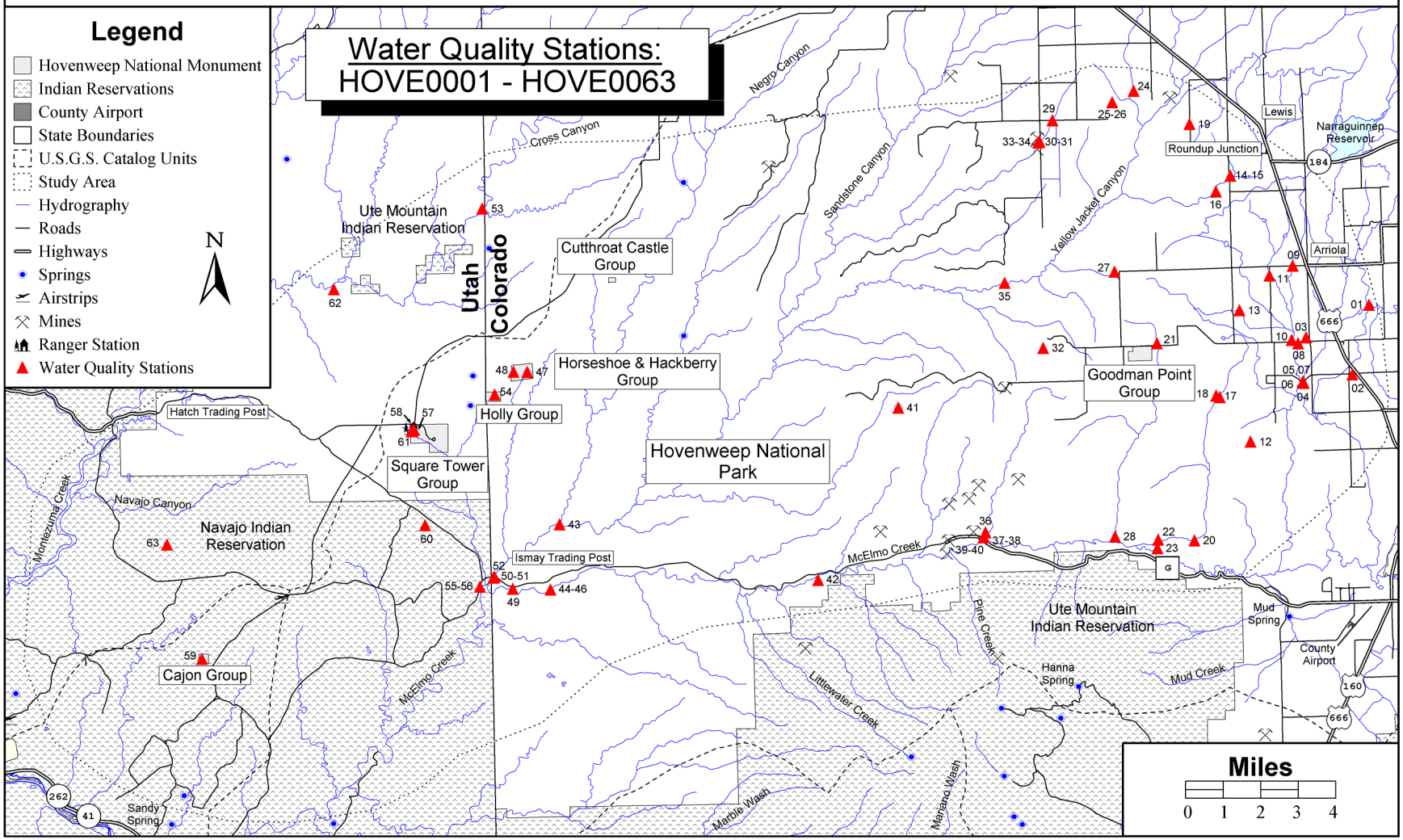
Hovenweep National Monument

Regional Location Map



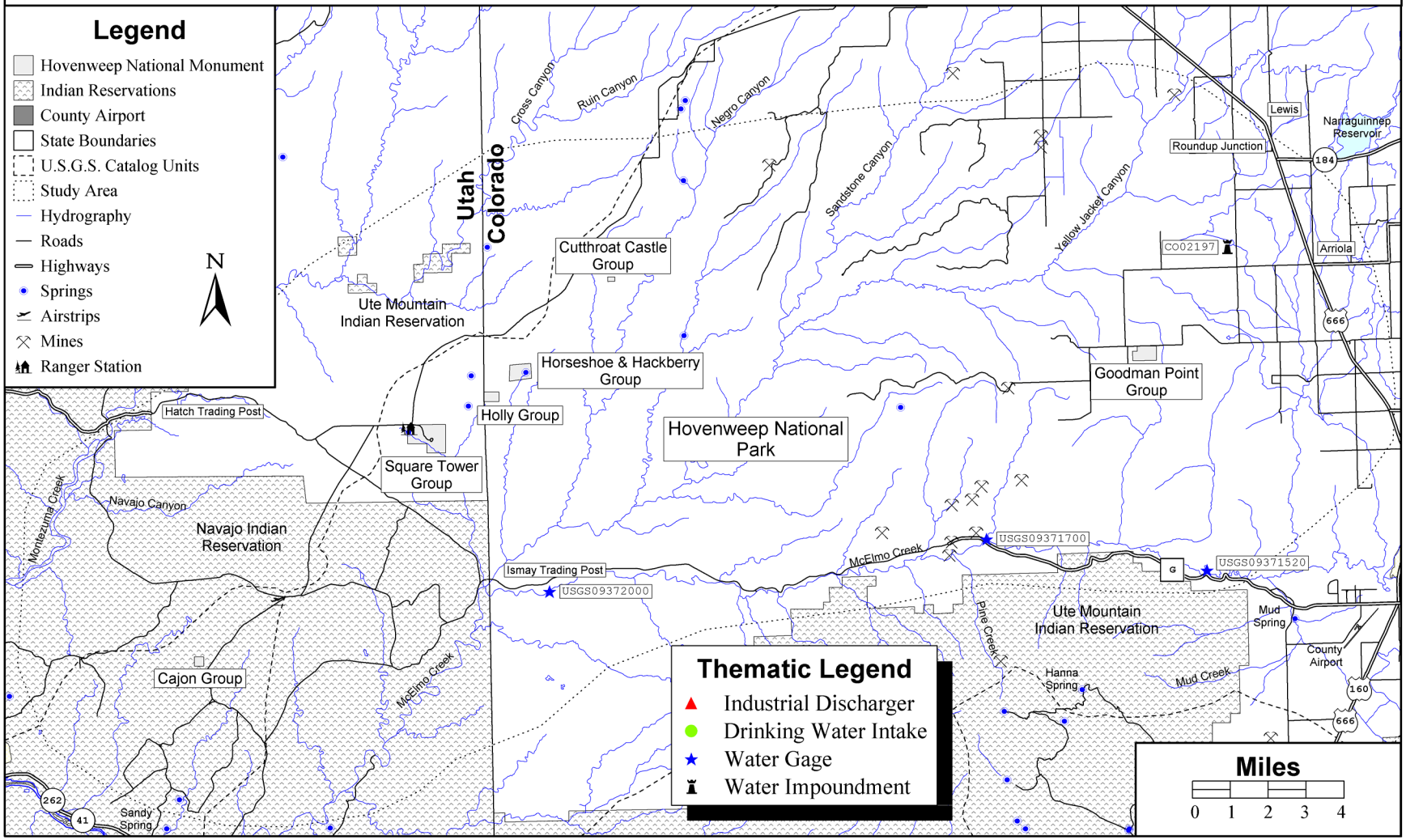
Hovenweep National Monument

Water Quality Monitoring Locations



Hovenweep National Monument

Dischargers, Drinking Intakes, Water Gages, & Water Impoundments



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

Industrial Facility Discharges

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

No IFD sites available for this study area.

Drinking Water Intakes

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

No drinking water intakes available for this study area.

Water Gages

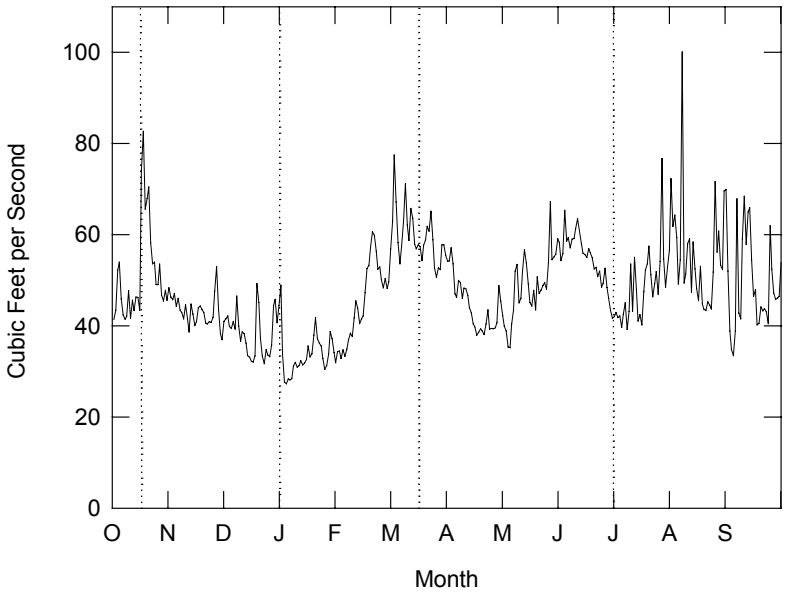
Site ID	Station Name	Site Type	Drainage Area (Square Miles)	Begin Year	End Year
USGS09371700	MCELMO CREEK BELOW CORTEZ, CO.	Stream	283.00	1973	1983
USGS09372000	MCELMO CREEK NEAR COLORADO-UTAH STATE LINE	Stream	346.00	1951	1998
USGS09371520	McElmo Creek above Trail Canyon near Cortez, CO	Stream	234.00	1993	1998

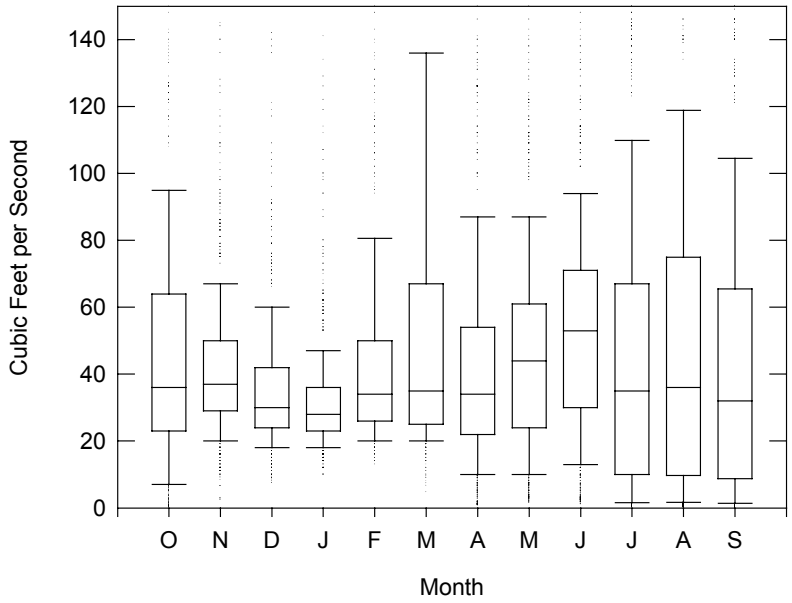
Water Impoundments

Site ID	Impoundment Name	Owner	Primary Purpose	Type of Dam	Downstream Hazard	Year Completed
CO02197	E. G. MERRITT	DR E G MERRITT	Irrig.	Earth	Low	1979

REPRESENTATIVE MEAN ANNUAL HYDROGRAPH FOR SEASONAL ANALYSIS

HOVENWEEP NATIONAL MONUMENT
McElmo Creek near Colorado - Utah state line
09372000, 36 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 Hovenweep National Monument are: Jul. 1 to Oct. 14, Oct. 15 to Dec. 31, Jan. 1 to Mar. 14, and Mar. 15 to Jun. 30.

CONTACTS FOR AGENCY CODES RETRIEVED FOR HOVE

AGENCY	PRIMARY CONTACT NAME	ORGANIZATION	PHONE NUMBER(S)	
112WRD	BRIGGS, JOHN	US GEOLOGICAL SURVEY	(703)648-5624	
11USBRUC	TUCKER, BILL	BUREAU OF RECLAMATION	(303)247-0247	
11NPSWRD	TUCKER, DEAN	NATIONAL PARK SERVICE	(970)225-3516	(970)225-3518
21COL001	ANDERSON, DENNIS	COLORADO DEPT OF HEALTH	(303)692-3571	
12TAWI	STORET USER ASSISTANCE	USEPA HQ	(202)260-7050	(800)424-9067

* DATA FOR 12TAWI HAS BEEN 'RETIRED' AT THE REQUEST OF STORET USER ASSISTANCE (703)883-8861 ON 03/14/86.

QUANTITY OF DATA RETRIEVED FOR HOVE 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
112WRD	US GEOLOGICAL SURVEY	09/08/54-03/10/97	05/01/59-05/01/59	13	1	1	0	0	0	5322	26	211	26
11USBRUC	BUREAU OF RECLAMATION	07/06/72-09/16/80	No Data in Park	10	0	1	0	9	0	3182	0	13	0
11NPSWRD	NATIONAL PARK SERVICE	08/26/77-09/14/94	09/14/94-09/14/94	38	6	0	0	0	0	653	197	39	33
21COL001	COLORADO DEPT OF HEALTH	01/01/01-06/10/82	No Data in Park	1	0	1	0	0	0	2621	0	63	0
12TAWI	USEPA HQ	06/06/76-06/23/76	No Data in Park	1	0	0	0	0	0	13	0	13	0
Totals		01/01/01-03/10/97	05/01/59-09/14/94	63	7	3	0	9	0	11791	223	268	48

[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 01/01/01 To 03/10/97

Station Ident.	Location Description	In Park	Total Obs	01/01/85 to 03/10/97	01/01/75 to 12/31/84	Before 01/01/75
HOVE0001	UPPER HERMANA LATERAL	No	0	0	0	0
HOVE0002	MAY LATERAL ON DIVIDE	No	0	0	0	0
HOVE0003	C24701	No	16	0	16	0
HOVE0004	C24706	No	16	0	16	0
HOVE0005	ALKALI CANYON DOWNSTREAM OF NARRAGUINNEP CANYON	No	12	12	0	0
HOVE0006	ALKALI CREEK BELOW NARRAGUINNEP CANYON	No	0	0	0	0
HOVE0007	ALKALI CANYON BLW NARRAGUINNEP CANYON, NR CORTEZ	No	165	165	0	0
HOVE0008	ALKALI CREEK ON GOODMAN POINT ROAD	No	0	0	0	0
HOVE0009	C24697	No	16	0	16	0
HOVE0010	C24700	No	16	0	16	0
HOVE0011	TRIBUTARY TO ALKALI CREEK	No	0	0	0	0
HOVE0012	MANCOS RIVER	No	13	0	13	0
HOVE0013	C24699	No	15	0	15	0
HOVE0014	DAWSON DRAW NEAR LEWIS	No	12	12	0	0
HOVE0015	DAWSON DRAW AT COUNTY ROAD, NR ARRIOLA	No	165	165	0	0
HOVE0016	C24692	No	16	0	16	0
HOVE0017	C24704	No	16	0	16	0
HOVE0018	C24703	No	16	0	16	0
HOVE0019	C24689	No	16	0	16	0
HOVE0020	TRAIL CANYON DITCH	No	0	0	0	0
HOVE0021	C24698	No	16	0	16	0
HOVE0022	C24561	No	16	0	16	0
HOVE0023	MCELMO CREEK UPSTREAM FROM TRAIL CANYON	No	10	10	0	0
HOVE0024	C24710	No	16	0	16	0
HOVE0025	POND ON TRIBUTARY OF UPPER YELLOW JACKET CANYON	No	22	22	0	0
HOVE0026	POND ON TRIBUTARY OF UPPER YELLOW JACKET CANYON	No	3	3	0	0
HOVE0027	C24696	No	16	0	16	0
HOVE0028	GOODMAN GULCH NEAR MOUTH	No	0	0	0	0
HOVE0029	C24665	No	14	0	14	0
HOVE0030	WOODS CANYON AT 15 ROAD, NR YELLOW JACKET	No	157	157	0	0
HOVE0031	WOODS CANYON AT ROAD 15	No	16	16	0	0
HOVE0032	C24683	No	16	0	16	0
HOVE0033	POND ON WOODS CANYON AT ROAD 15	No	3	3	0	0
HOVE0034	POND IN WOODS CANYON AT 15 ROAD	No	22	22	0	0
HOVE0035	C24681	No	16	0	16	0
HOVE0036	C24553	No	15	0	15	0
HOVE0037	MCELMO CREEK BELOW CORTEZ,CO	No	0	0	0	0
HOVE0038[1]	MCELMO CREEK BELOW CORTEZ,CO	No	3182	0	1603	1579
HOVE0039	MCELMO CREEK BELOW CORTEZ, CO.	No	216	0	216	0
HOVE0040[1]	MCELMO CREEK WEST OF CORTEZ	No	2621	0	1496	1125
HOVE0041	C24686	No	16	0	16	0
HOVE0042	C24540	No	16	0	16	0
HOVE0043	YELLOWJACKET CANYON (ANETH 1 SE QUAD)	No	28	0	28	0
HOVE0044[1]	MCELMO CREEK NEAR COLORADO-UTAH STATE LINE	No	4142	2197	1699	246
HOVE0045	MCELMO CREEK AT STATELINE	No	0	0	0	0
HOVE0046	MCELMO CREEK UPSTREAM OF YELLOW JACKET CANYON	No	12	12	0	0
HOVE0047	HACKBERRY HOUSE	Yes	33	33	0	0
HOVE0048	HORSESHOE HOUSE	Yes	33	33	0	0
HOVE0049	C25079	No	16	0	16	0
HOVE0050	YELLOW JACKET CANYON AT MOUTH	No	12	12	0	0
HOVE0051	YELLOW JACKET CANYON AT MOUTH	No	166	166	0	0
HOVE0052	C25080	No	16	0	16	0
HOVE0053	C25084	No	16	0	16	0
HOVE0054	HOLLY HOUSE	Yes	32	32	0	0
HOVE0055	MCELMO CK DOWNSTREAM OF YELLOW JACKET CANYON	No	12	12	0	0
HOVE0056	MCELMO CREEK BLW YELLOW JACKET CANYON	No	165	165	0	0
HOVE0057	SQUARE TOWER SPRING; EAST END	Yes	33	33	0	0
HOVE0058	SQUARE TOWER SPRING; WEST END	Yes	33	33	0	0
HOVE0059	CAJON UNIT	Yes	33	33	0	0
HOVE0060	(D-39-26)33 -S1	No	24	0	0	24
HOVE0061	(D-39-26)20AAC-S1	Yes	26	0	0	26
HOVE0062	C25001	No	16	0	16	0
HOVE0063	(D-40-25) 5BBB-S1	No	24	0	0	24

[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 01/01/01 To 03/10/97

Parameter Code	Name	Total Obs	01/01/85 to 03/10/97	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
00004	STREAM WIDTH (FEET)	99	98	1	0	3	0
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	724	135	322	267	35	0
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	87	0	44	43	1	0
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	5	0	2	3	3	0
00021	TEMPERATURE, AIR (DEGREES FAHRENHEIT)	18	0	18	0	1	0
00025	BAROMETRIC PRESSURE (MM OF HG)	20	20	0	0	8	0
00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	222	135	83	4	12	1
00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	243	135	104	4	13	1
00037	WIND FORCE (BEAUFORT UNITS)	1	0	1	0	1	0
00041	WEATHER (WMO CODE 4501)	1	0	1	0	1	0
00042	ALTITUDE IN FEET ABOVE MEAN SEA LEVEL	1	0	0	1	1	0
00044	CLOUD AMOUNT (WMO CODE 2700)	1	0	1	0	1	0
00055	VELOCITY, STREAM FT/SEC	1	0	1	0	1	0
00057	FLOW, INDICATES IT HAS BEEN CHECKED	54	0	48	6	1	0
00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	3	0	0	3	3	1
00060	FLOW, STREAM, MEAN DAILY CFS	312	0	177	135	3	0
00061	FLOW, STREAM, INSTANTANEOUS CFS	176	133	43	0	7	0
00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION	97	97	0	0	4	0
00065	STAGE, STREAM (FEET)	105	105	0	0	1	0
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	70	0	37	33	2	0
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	2	0	2	0	2	0
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	673	140	359	174	43	7
00105	RIVER MILE, UPSTREAM END OF REACH	1	0	1	0	1	0
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	1	0	1	0	1	0
00300	OXYGEN, DISSOLVED MG/L	96	20	68	8	9	0
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	6	6	0	0	4	0
00310	BOD, 5 DAY, 20 DEG C MG/L	44	0	28	16	1	0
00340	COD, .25N K2CR2O7 MG/L	23	0	23	0	1	0
00400	PH (STANDARD UNITS)	522	127	223	172	41	7
00403	PH, LAB, STANDARD UNITS SU	127	122	5	0	8	0
00405	CARBON DIOXIDE (MG/L AS CO2)	11	0	10	1	2	1
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	69	29	33	7	21	7
00440	BICARBONATE ION (MG/L AS HCO3)	261	6	126	129	11	7
00445	CARBONATE ION (MG/L AS CO3)	261	6	127	128	11	7
00500	RESIDUE, TOTAL (MG/L)	267	0	142	125	2	0
00505	RESIDUE, TOTAL VOLATILE (MG/L)	11	0	0	11	1	0
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	61	0	45	16	1	0
00545	RESIDUE, SETTLEABLE (ML/L)	12	0	0	12	1	0
00572	BIOMASS, PERIPHYTON (GRAMS PER SQUARE METER)	3	0	3	0	1	0
00573	BIOMASS, PERIPHYTON,DRY WEIGHT TOTAL (G/M2)	3	0	3	0	1	0
00600	NITROGEN, TOTAL (MG/L AS N)	23	0	23	0	1	0
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	23	0	23	0	1	0
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	6	6	0	0	6	0
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	96	0	66	30	2	0
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	6	6	0	0	6	0
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	51	0	23	28	1	0
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	9	6	0	3	9	7
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	56	0	27	29	1	0
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	40	0	40	0	2	0
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	42	0	42	0	2	0
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	56	55	1	0	9	0
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	29	0	3	26	2	0
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	1	0	1	0	1	0
00665	PHOSPHORUS, TOTAL (MG/L AS P)	64	0	61	3	2	0
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	31	6	25	0	8	6
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	6	6	0	0	6	0
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	7	6	1	0	7	0
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	1	1	0	0	1	0
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	24	1	23	0	1	0
00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	18	0	18	0	1	0
00723	CYANIDE, DISSOLVED STD METHOD (UG/L)	62	0	42	20	1	0
00900	HARDNESS, TOTAL (MG/L AS CACO3)	128	30	58	40	21	7
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	30	0	23	7	5	1
00910	CALCIUM (MG/L AS CACO3)	67	0	33	34	1	0
00915	CALCIUM, DISSOLVED (MG/L AS CA)	184	129	48	7	41	7
00916	CALCIUM, TOTAL (MG/L AS CA)	238	0	116	122	1	0
00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	6	6	0	0	6	0
00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	6	6	0	0	6	0
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	422	129	164	129	42	7
00927	MAGNESIUM, TOTAL (MG/L AS MG)	67	0	33	34	1	0
00929	SODIUM, TOTAL (MG/L AS NA)	66	0	32	34	1	0

Parameter Period of Record Tabulation
From 01/01/01 To 03/10/97

Parameter Code	Name	Total Obs	01/01/85 to 03/10/97	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
00930	SODIUM, DISSOLVED (MG/L AS NA)	396	129	141	126	16	6
00931	SODIUM ADSORPTION RATIO	116	18	57	41	12	1
00932	SODIUM, PERCENT	32	1	24	7	5	1
00933	SODIUM,PLUS POTASSIUM (MG/L)	9	0	6	3	5	1
00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	6	6	0	0	6	0
00935	POTASSIUM, DISSOLVED (MG/L AS K)	395	129	140	126	16	6
00937	POTASSIUM, TOTAL MG/L AS K)	9	0	9	0	1	0
00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	6	6	0	0	6	0
00940	CHLORIDE,TOTAL IN WATER MG/L	459	123	173	163	14	1
00941	CHLORIDE, DISSOLVED IN WATER MG/L	6	6	0	0	6	6
00945	SULFATE, TOTAL (MG/L AS SO4)	227	123	69	35	13	1
00946	SULFATE, DISSOLVED (MG/L AS SO4)	244	6	116	122	7	6
00950	FLUORIDE, DISSOLVED (MG/L AS F)	140	112	25	3	12	1
00951	FLUORIDE, TOTAL (MG/L AS F)	34	0	15	19	1	0
00955	SILICA, DISSOLVED (MG/L AS SI02)	145	117	25	3	12	1
00980	IRON,TOTAL RECOVERABLE IN WATER AS FE UG/L	77	0	44	33	1	0
00998	BERYLLIUM,TOTAL RECOVERABLE IN WATER AS BE UG/L	6	0	6	0	1	0
01000	ARSENIC, DISSOLVED (UG/L AS AS)	25	18	7	0	6	0
01001	ARSENIC, SUSPENDED (UG/L AS AS)	3	0	3	0	1	0
01002	ARSENIC, TOTAL (UG/L AS AS)	63	0	45	18	2	0
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	12	6	6	0	6	0
01005	BARIUM, DISSOLVED (UG/L AS BA)	13	6	7	0	7	6
01006	BARIUM, SUSPENDED (UG/L AS BA)	4	0	4	0	1	0
01007	BARIUM, TOTAL (UG/L AS BA)	4	0	4	0	1	0
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	12	6	6	0	6	0
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	7	0	7	0	1	0
01011	BERYLLIUM, SUSPENDED (UG/L AS BE)	1	0	1	0	1	0
01012	BERYLLIUM, TOTAL (UG/L AS BE)	4	0	4	0	1	0
01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	12	6	6	0	6	0
01020	BORON, DISSOLVED (UG/L AS B)	49	24	24	1	13	7
01022	BORON, TOTAL (UG/L AS B)	55	0	23	32	1	0
01025	CADMIUM, DISSOLVED (UG/L AS CD)	31	24	7	0	12	6
01026	CADMIUM, SUSPENDED (UG/L AS CD)	1	0	1	0	1	0
01027	CADMIUM, TOTAL (UG/L AS CD)	4	0	4	0	1	0
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	12	6	6	0	6	0
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	12	6	6	0	6	0
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	54	24	30	0	35	6
01031	CHROMIUM, SUSPEND (UG/L AS CR)	4	0	4	0	1	0
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	27	0	10	17	1	0
01034	CHROMIUM, TOTAL (UG/L AS CR)	4	0	4	0	1	0
01035	COBALT, DISSOLVED (UG/L AS CO)	31	1	30	0	25	0
01036	COBALT, SUSPENDED (UG/L AS CO)	1	0	1	0	1	0
01037	COBALT, TOTAL (UG/L AS CO)	4	0	4	0	1	0
01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	12	6	6	0	6	0
01040	COPPER, DISSOLVED (UG/L AS CU)	54	24	30	0	35	6
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	12	6	6	0	6	0
01046	IRON, DISSOLVED (UG/L AS FE)	53	6	47	0	31	6
01049	LEAD, DISSOLVED (UG/L AS PB)	53	23	30	0	34	5
01050	LEAD, SUSPENDED (UG/L AS PB)	1	0	1	0	1	0
01051	LEAD, TOTAL (UG/L AS PB)	4	0	4	0	1	0
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	12	6	6	0	6	0
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	12	6	6	0	6	0
01054	MANGANESE, SUSPENDED (UG/L AS MN)	4	0	4	0	1	0
01055	MANGANESE, TOTAL (UG/L AS MN)	4	0	4	0	1	0
01056	MANGANESE, DISSOLVED (UG/L AS MN)	37	6	31	0	31	6
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	54	24	30	0	35	6
01061	MOLYBDENUM, SUSPENDED (UG/L AS MO)	1	0	1	0	1	0
01062	MOLYBDENUM, TOTAL (UG/L AS MO)	4	0	4	0	1	0
01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	12	6	6	0	6	0
01065	NICKEL, DISSOLVED (UG/L AS NI)	36	6	30	0	30	6
01066	NICKEL, SUSPENDED (UG/L AS NI)	4	0	4	0	1	0
01067	NICKEL, TOTAL (UG/L AS NI)	4	0	4	0	1	0
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	12	6	6	0	6	0
01074	NICKEL,TOTAL RECOVERABLE IN WATER AS NI UG/L	7	0	7	0	1	0
01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	6	6	0	0	6	0
01079	SILVER,TOTAL RECOVERABLE IN WATER AS AG UG/L	24	0	16	8	1	0
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10	6	4	0	7	6
01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	7	6	1	0	6	0
01085	VANADIUM, DISSOLVED (UG/L AS V)	31	24	7	0	12	6
01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	6	6	0	0	6	0
01090	ZINC, DISSOLVED (UG/L AS ZN)	54	24	30	0	35	6

Parameter Period of Record Tabulation
From 01/01/01 To 03/10/97

Parameter Code	Name	Total Obs	01/01/85 to 03/10/97	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
01091	ZINC, SUSPENDED (UG/L ZN)	3	0	3	0	1	0
01092	ZINC, TOTAL (UG/L AS ZN)	4	0	4	0	1	0
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	12	6	6	0	6	0
01094	ZINC,TOTAL RECOVERABLE IN WATER AS ZN UG/L	75	0	44	31	1	0
01103	TIN IN BOTTOM DEPOSITS (MG/KG AS SN DRY WGT)	6	6	0	0	6	0
01104	ALUMINUM,TOTAL RECOVERABLE IN WATER AS AL UG/L	7	0	7	0	1	0
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	12	6	6	0	7	6
01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	6	6	0	0	6	0
01113	CADMIUM,TOTAL RECOVERABLE IN WATER AS CD UG/L	70	0	40	30	1	0
01114	LEAD,TOTAL RECOVERABLE IN WATER AS PB UG/L	61	0	44	17	1	0
01118	CHROMIUM TOTAL RECOVERABLE IN WATER AS CR UG/L	7	0	7	0	1	0
01119	COPPER,TOTAL RECOVERABLE IN WATER AS CU UG/L	60	0	43	17	1	0
01123	MANGANESE,TOTAL RECOVERABLE IN WATER AS MN UG/L	76	0	44	32	1	0
01129	MOLYBDENUM,TOTAL RECOVERABLE IN WATER AS MB UG/L	22	0	16	6	1	0
01130	LITHIUM, DISSOLVED (UG/L AS LI)	7	0	7	0	1	0
01131	LITHIUM, SUSPENDED (UG/L AS LI)	4	0	4	0	1	0
01132	LITHIUM, TOTAL (UG/L AS LI)	4	0	4	0	1	0
01133	LITHIUM IN BOTTOM DEPOSITS (MG/KG AS LI DRY WGT)	6	6	0	0	6	0
01140	SILICON, DISSOLVED (UG/L AS SI)	6	6	0	0	6	6
01145	SELENIUM, DISSOLVED (UG/L AS SE)	35	28	7	0	14	6
01146	SELENIUM, SUSPENDED (UG/L AS SE)	4	0	4	0	1	0
01147	SELENIUM, TOTAL (UG/L AS SE)	64	0	31	33	2	0
01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	14	8	6	0	8	0
01150	TITANIUM, DISSOLVED (UG/L AS TI)	29	6	23	0	29	6
01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	6	6	0	0	6	0
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	6	6	0	0	6	0
01503	ALPHA, DISSOLVED	37	0	13	24	1	0
01504	ALPHA, DISSOLVED, COUNTING ERROR	37	0	13	24	1	0
01515	ALPHA, DISSOLVED GROSS, AS URANIUM-NATURAL, PC/L	4	0	4	0	1	0
01516	ALPHA, SUSPEND GROSS, AS URANIUM NATURAL, PC/L	4	0	4	0	1	0
03501	BETA, TOTAL	1	0	1	0	1	0
03503	BETA, DISSOLVED	30	0	14	16	1	0
03504	BETA, DISSOLVED, COUNTING ERROR	30	0	14	16	1	0
03515	BETA, DISSOLVED GROSS, AS CS-137, PC/L	4	0	4	0	1	0
03516	BETA, SUSPENDED GROSS, AS CS-137, PC/L	4	0	4	0	1	0
09503	RADIUM 226, DISSOLVED	23	0	13	10	1	0
09504	RADIUM 226, DISSOLVED, COUNTING ERROR	23	0	13	10	1	0
09505	RADIUM 226, SUSPENDED	2	0	2	0	1	0
22703	URANIUM, NATURAL, DISSOLVED	26	0	26	0	24	0
22707	URANIUM, NATURAL IN SEDIMENT (UG/G OF DRY SOLIDS)	6	6	0	0	6	0
28011	URANIUM,NATURAL,TOTAL UG/L AS U	17	17	0	0	6	0
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	57	0	19	38	1	0
31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	77	0	41	36	1	0
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	24	0	24	0	1	0
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	24	0	24	0	1	0
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	31	0	13	18	1	0
39011	DISYSTON, FLAME PHOTOMETRIC,WATER SAMPLE (UG/L)	4	4	0	0	4	0
39023	PHORATE, FLAME IONIZATION, WATER SAMPLE (UG/L)	4	4	0	0	4	0
39040	S,S,S-TRIBUTYL PHOSPHOROTRITHIOATE WTR-FPD UG/L	4	4	0	0	4	0
39251	PCNS IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	6	6	0	0	6	0
39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	6	6	0	0	6	0
39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	6	6	0	0	6	0
39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	6	6	0	0	6	0
39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	6	6	0	0	6	0
39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	6	6	0	0	6	0
39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	6	6	0	0	6	0
39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	6	6	0	0	6	0
39389	ENDOSULFAN IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	6	6	0	0	6	0
39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	6	6	0	0	6	0
39398	ETHION IN WHOLE WATER SAMPLE (UG/L)	4	4	0	0	4	0
39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	6	6	0	0	6	0
39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	6	6	0	0	6	0
39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	6	6	0	0	6	0
39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	6	6	0	0	6	0
39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	6	6	0	0	6	0
39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	4	4	0	0	4	0
39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	4	4	0	0	4	0
39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	4	4	0	0	4	0
39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	4	4	0	0	4	0
39720	PICLORAM IN WHOLE WATER SAMPLE (UG/L)	4	4	0	0	4	0
39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	4	4	0	0	4	0

Parameter Period of Record Tabulation
From 01/01/01 To 03/10/97

Parameter Code	Name	Total Obs	01/01/85 to 03/10/97	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	4	4	0	0	4	0
39758	MIREX, BOTTOM MATERIAL (UG/KG DRY SOLIDS)	6	6	0	0	6	0
39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	4	4	0	0	4	0
39786	TRITHION IN WHOLE WATER SAMPLE (UG/L)	4	4	0	0	4	0
39790	METHYL TRITHION IN WHOLE WATER SAMPLE (UG/L)	4	4	0	0	4	0
60050	ALGAE, TOTAL (CELLS/ML)	23	0	23	0	1	0
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	131	26	64	41	14	6
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	32	1	24	7	5	1
70302	SOLIDS, DISSOLVED-TONS PER DAY	50	21	25	4	9	0
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	29	0	25	4	2	0
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	5	0	5	0	1	0
70332	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .125MM	2	0	2	0	1	0
70333	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .250MM	1	0	1	0	1	0
70334	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM	1	0	1	0	1	0
70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	8	0	8	0	1	0
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	8	0	8	0	1	0
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	8	0	8	0	1	0
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	6	0	6	0	1	0
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	6	0	6	0	1	0
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	4	0	4	0	1	0
70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	1	0	1	0	1	0
70950	BIOMASS-CHLOROPHYLL RATIO, PERIPHYTON (UNITS)	1	0	1	0	1	0
70957	CHLOROPHYLL-A,PERIPHYTON UG/L,CHROMO-FLUORO	3	0	3	0	1	0
70958	CHLOROPHYLL-B,PERIPHYTON UG/L,CHROMO-FLUORO	3	0	3	0	1	0
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	13	0	13	0	1	0
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	9	6	0	3	9	7
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	16	0	16	0	1	0
71887	NITROGEN, TOTAL, AS NO3 - MG/L	23	0	23	0	1	0
71890	MERCURY, DISSOLVED (UG/L AS HG)	25	18	7	0	6	0
71895	MERCURY, SUSPENDED (UG/L AS HG)	4	0	4	0	1	0
71900	MERCURY, TOTAL (UG/L AS HG)	10	0	10	0	2	0
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	14	8	6	0	8	0
72025	DEPTH OF POND OR RESERVOIR IN FEET	1	0	1	0	1	0
72104	SAMPLE LOCATION, DISTANCE DOWNSTREAM (FEET)	1	1	0	0	1	0
72105	SAMPLE LOCATION, DISTANCE UPSTREAM (FEET)	11	11	0	0	1	0
75993	URANIUM,NATURAL,1 SIGMA PRC EST,TOTAL,WATER UG/L	17	17	0	0	6	0
80030	ALPHA,DISSOLVED GROSS,AS URANIUM-NATURAL,UG/L	4	0	4	0	1	0
80040	ALPHA,SUSPENDED GROSS, AS URANIUM-NATURAL, UG/L	4	0	4	0	1	0
80050	BETA,DISSOLVED GROSS,AS SR-Y-90, PC/L	4	0	4	0	1	0
80060	BETA,SUSPENDED GROSS,AS SR-Y-90, PC/L	4	0	4	0	1	0
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	22	0	22	0	1	0
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	22	0	22	0	1	0
81886	PERTHANE IN SEDIMENT DRY WEIGHT UG/KG	6	6	0	0	6	0
82052	BANVEL (DICAMBA) WHOLE WATER,UG/L	4	4	0	0	4	0
82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	3	0	3	0	1	0
82170	GOLD IN SEDIMENT MG/KG	6	6	0	0	6	0
82183	2,4-DP (DICHLORPROP) TOTAL UG/L	4	4	0	0	4	0
82311	YTTERBIUMIN BOTTOM MATERIAL DRY WT. AS YB UG/KG	6	6	0	0	6	0
82313	THORIUM IN BOTTOM MATERIAL DRY WEIGHT AS TH UG/KG	6	6	0	0	6	0
82317	SCANDIUM, IN BOTTOM MATERIAL DRY WT AS SC UG/KG	6	6	0	0	6	0
82321	TANTALUM IN BOTTOM MATERIAL DRY WT. AS TA UG/KG	6	6	0	0	6	0
82398	SAMPLING METHOD (CODES)	147	123	24	0	8	0
84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	3	0	0	3	3	1
84001	AQUIFER NAME CODE (SEE USGS CATALOG)	3	0	0	3	3	1
85281	INVALID PARAMETER	1	0	1	0	1	0

Station/Parameter Period of Record Tabulation
From 01/01/01 To 03/10/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HOVE0012	No	00004	STREAM WIDTH (FEET)	06/23/76-06/23/76	0	1	
HOVE0030	No	00004	STREAM WIDTH (FEET)	04/06/94-07/13/94	0	2	
HOVE0044	No	00004	STREAM WIDTH (FEET)	08/27/87-03/10/97	9	96	A
HOVE0003	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/28/77-08/28/77	0	1	
HOVE0004	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/28/77-08/28/77	0	1	
HOVE0007	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/28/90-11/09/90	0	3	
HOVE0009	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/28/77-08/28/77	0	1	
HOVE0010	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/28/77-08/28/77	0	1	
HOVE0012	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/23/76-06/23/76	0	1	
HOVE0015	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/11/90-11/09/90	0	3	
HOVE0016	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/27/77-08/27/77	0	1	
HOVE0017	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/28/77-08/28/77	0	1	
HOVE0018	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/28/77-08/28/77	0	1	
HOVE0019	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/27/77-08/27/77	0	1	
HOVE0021	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/28/77-08/28/77	0	1	
HOVE0022	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/01/77-09/01/77	0	1	
HOVE0024	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/27/77-08/27/77	0	1	
HOVE0025	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/14/94-06/14/94	0	1	
HOVE0027	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/28/77-08/28/77	0	1	
HOVE0029	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/77-08/26/77	0	1	
HOVE0030	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/11/90-07/13/94	4	4	
HOVE0032	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/28/77-08/28/77	0	1	
HOVE0034	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/14/94-06/14/94	0	1	
HOVE0035	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/28/77-08/28/77	0	1	
HOVE0038	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/06/72-09/16/80	8	251	
HOVE0039	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/01/76-08/30/83	6	85	
HOVE0041	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/31/77-08/31/77	0	1	
HOVE0042	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/01/77-09/01/77	0	1	
HOVE0043	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/04/79-09/04/79	0	1	
HOVE0044	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/60-03/10/97	36	345	
HOVE0049	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/19/78-05/19/78	0	1	
HOVE0051	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/27/90-11/14/90	0	3	
HOVE0052	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/19/78-05/19/78	0	1	
HOVE0053	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/19/78-05/19/78	0	1	
HOVE0056	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/27/90-11/14/90	0	3	
HOVE0060	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/08/54-09/08/54	0	1	
HOVE0062	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/78-05/15/78	0	1	
HOVE0063	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/08/54-09/08/54	0	1	
HOVE0040	No	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/23/68-04/01/82	14	87	T,S
HOVE0012	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/23/76-06/23/76	0	1	
HOVE0040	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	04/01/82-04/01/82	0	1	
HOVE0044	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/13/70-09/10/70	0	3	
HOVE0040	No	00021	TEMPERATURE, AIR (DEGREES FAHRENHEIT)	01/29/79-06/10/82	3	18	
HOVE0007	No	00025	BAROMETRIC PRESSURE (MM OF HG)	03/28/90-11/09/90	0	3	
HOVE0015	No	00025	BAROMETRIC PRESSURE (MM OF HG)	04/11/90-11/09/90	0	3	
HOVE0025	No	00025	BAROMETRIC PRESSURE (MM OF HG)	06/14/94-06/14/94	0	1	
HOVE0030	No	00025	BAROMETRIC PRESSURE (MM OF HG)	11/15/90-07/13/94	3	3	
HOVE0034	No	00025	BAROMETRIC PRESSURE (MM OF HG)	06/14/94-06/14/94	0	1	
HOVE0044	No	00025	BAROMETRIC PRESSURE (MM OF HG)	03/27/90-11/14/90	0	3	
HOVE0051	No	00025	BAROMETRIC PRESSURE (MM OF HG)	03/27/90-11/14/90	0	3	
HOVE0056	No	00025	BAROMETRIC PRESSURE (MM OF HG)	03/27/90-11/14/90	0	3	
HOVE0007	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	03/28/90-11/09/90	0	3	
HOVE0015	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	04/11/90-11/09/90	0	3	
HOVE0025	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	06/14/94-06/14/94	0	1	
HOVE0030	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	04/11/90-07/13/94	4	4	
HOVE0034	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	06/14/94-06/14/94	0	1	
HOVE0039	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	10/02/81-08/30/83	1	23	
HOVE0044	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	05/13/70-03/10/97	26	178	
HOVE0051	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	03/27/90-11/14/90	0	3	
HOVE0056	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	03/27/90-11/14/90	0	3	
HOVE0060	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	09/08/54-09/08/54	0	1	
HOVE0061	Yes	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	05/01/59-05/01/59	0	1	
HOVE0063	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	09/08/54-09/08/54	0	1	
HOVE0007	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	03/28/90-11/09/90	0	3	
HOVE0015	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	04/11/90-11/09/90	0	3	
HOVE0025	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	06/14/94-06/14/94	0	1	
HOVE0030	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	04/11/90-07/13/94	4	4	
HOVE0034	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	06/14/94-06/14/94	0	1	
HOVE0039	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	10/02/81-08/30/83	1	23	
HOVE0043	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	09/04/79-09/04/79	0	1	
HOVE0044	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	05/13/70-03/10/97	26	198	
HOVE0051	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	03/27/90-11/14/90	0	3	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 03/10/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HOVE0056	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	03/27/90-11/14/90	0	3	
HOVE0060	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	09/08/54-09/08/54	0	1	
HOVE0061	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	05/01/59-05/01/59	0	1	
HOVE0063	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	09/08/54-09/08/54	0	1	
HOVE0012	No	00037	WIND FORCE (BEAUFORT UNITS)	06/23/76-06/23/76	0	1	
HOVE0012	No	00041	WEATHER (WMO CODE 4501)	06/23/76-06/23/76	0	1	
HOVE0040	No	00042	ALTITUDE IN FEET ABOVE MEAN SEA LEVEL	01/01/01-01/01/01	0	1	
HOVE0012	No	00044	CLOUD AMOUNT (WMO CODE 2700)	06/23/76-06/23/76	0	1	
HOVE0012	No	00055	VELOCITY, STREAM FT/SEC	06/23/76-06/23/76	0	1	
HOVE0040	No	00057	FLOW, INDICATES IT HAS BEEN CHECKED	10/12/72-06/10/82	9	54	
HOVE0060	No	00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	09/08/54-09/08/54	0	1	
HOVE0061	Yes	00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	05/01/59-05/01/59	0	1	
HOVE0063	No	00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	09/08/54-09/08/54	0	1	
HOVE0038	No	00060	FLOW, STREAM, MEAN DAILY CFS	07/06/72-09/16/80	8	251	A
HOVE0040	No	00060	FLOW, STREAM, MEAN DAILY CFS	10/12/72-06/10/82	9	54	
HOVE0044	No	00060	FLOW, STREAM, MEAN DAILY CFS	08/27/69-12/04/70	1	7	
HOVE0007	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	03/28/90-11/09/90	0	3	
HOVE0015	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	04/11/90-11/09/90	0	3	
HOVE0030	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	04/11/90-07/13/94	4	4	
HOVE0043	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	09/04/79-09/04/79	0	1	
HOVE0044	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	12/27/77-03/10/97	19	159	
HOVE0051	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	03/27/90-11/14/90	0	3	
HOVE0056	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	03/27/90-11/14/90	0	3	
HOVE0025	No	00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION	06/14/94-06/14/94	0	1	
HOVE0030	No	00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION	07/13/94-07/13/94	0	1	
HOVE0034	No	00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION	06/14/94-06/14/94	0	1	
HOVE0044	No	00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION	04/26/88-03/10/97	8	94	
HOVE0044	No	00065	STAGE, STREAM (FEET)	08/27/87-03/10/97	9	105	
HOVE0040	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	03/13/68-06/04/80	12	65	T,S
HOVE0044	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	05/22/79-05/26/81	2	5	
HOVE0012	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/23/76-06/23/76	0	1	
HOVE0044	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/27/80-10/27/80	0	1	
HOVE0003	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/28/77-08/28/77	0	1	
HOVE0004	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/28/77-08/28/77	0	1	
HOVE0007	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/28/90-11/09/90	0	3	
HOVE0009	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/28/77-08/28/77	0	1	
HOVE0010	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/28/77-08/28/77	0	1	
HOVE0013	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/28/77-08/28/77	0	1	
HOVE0015	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/11/90-11/09/90	0	3	
HOVE0016	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/27/77-08/27/77	0	1	
HOVE0017	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/28/77-08/28/77	0	1	
HOVE0018	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/28/77-08/28/77	0	1	
HOVE0019	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/27/77-08/27/77	0	1	
HOVE0021	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/28/77-08/28/77	0	1	
HOVE0022	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/01/77-09/01/77	0	1	
HOVE0024	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/27/77-08/27/77	0	1	
HOVE0025	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/14/94-06/14/94	0	1	
HOVE0027	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/28/77-08/28/77	0	1	
HOVE0030	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/11/90-07/13/94	4	4	
HOVE0032	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/28/77-08/28/77	0	1	
HOVE0034	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/14/94-06/14/94	0	1	
HOVE0035	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/28/77-08/28/77	0	1	
HOVE0036	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/01/77-09/01/77	0	1	
HOVE0038	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/06/72-09/16/80	8	259	A
HOVE0039	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/76-08/30/83	6	85	A
HOVE0040	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/23/68-04/01/82	14	79	T,S
HOVE0041	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/31/77-08/31/77	0	1	
HOVE0042	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/01/77-09/01/77	0	1	
HOVE0043	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/04/79-09/04/79	0	1	
HOVE0044	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/27/69-03/10/97	27	200	T,A,S
HOVE0047	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/14/94-09/14/94	0	1	
HOVE0048	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/14/94-09/14/94	0	1	
HOVE0049	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/19/78-05/19/78	0	1	
HOVE0051	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/27/90-11/14/90	0	3	
HOVE0052	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/19/78-05/19/78	0	1	
HOVE0053	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/19/78-05/19/78	0	1	
HOVE0054	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/14/94-09/14/94	0	1	
HOVE0056	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/27/90-11/14/90	0	3	
HOVE0057	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/14/94-09/14/94	0	1	
HOVE0058	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/14/94-09/14/94	0	1	
HOVE0059	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/14/94-09/14/94	0	1	
HOVE0060	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM 25C)	09/08/54-09/08/54	0	1	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 03/10/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HOVE0061	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/01/59-05/01/59	0	1	
HOVE0062	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/15/78-05/15/78	0	1	
HOVE0063	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/08/54-09/08/54	0	1	
HOVE0012	No	00105	RIVER MILE, UPSTREAM END OF REACH	06/06/76-06/06/76	0	1	
HOVE0012	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/23/76-06/23/76	0	1	
HOVE0007	No	00300	OXYGEN, DISSOLVED MG/L	03/28/90-11/09/90	0	3	
HOVE0015	No	00300	OXYGEN, DISSOLVED MG/L	04/11/90-11/09/90	0	3	
HOVE0025	No	00300	OXYGEN, DISSOLVED MG/L	06/14/94-06/14/94	0	1	
HOVE0030	No	00300	OXYGEN, DISSOLVED MG/L	11/15/90-07/13/94	3	3	
HOVE0034	No	00300	OXYGEN, DISSOLVED MG/L	06/14/94-06/14/94	0	1	
HOVE0040	No	00300	OXYGEN, DISSOLVED MG/L	05/02/73-04/01/82	8	48	
HOVE0044	No	00300	OXYGEN, DISSOLVED MG/L	05/13/70-11/14/90	20	31	
HOVE0051	No	00300	OXYGEN, DISSOLVED MG/L	03/27/90-11/14/90	0	3	
HOVE0056	No	00300	OXYGEN, DISSOLVED MG/L	03/27/90-11/14/90	0	3	
HOVE0023	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	03/23/94-07/07/94	0	2	
HOVE0026	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/14/94-06/14/94	0	1	
HOVE0031	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	04/06/94-07/13/94	0	2	
HOVE0033	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/14/94-06/14/94	0	1	
HOVE0040	No	00310	BOD, 5 DAY, 20 DEG C MG/L	07/09/68-06/04/80	11	44	T
HOVE0044	No	00340	COD, .25N K2CR2O7 MG/L	12/27/77-07/27/81	3	23	
HOVE0003	No	00400	PH (STANDARD UNITS)	08/28/77-08/28/77	0	1	
HOVE0004	No	00400	PH (STANDARD UNITS)	08/28/77-08/28/77	0	1	
HOVE0007	No	00400	PH (STANDARD UNITS)	03/28/90-11/09/90	0	3	
HOVE0009	No	00400	PH (STANDARD UNITS)	08/28/77-08/28/77	0	1	
HOVE0010	No	00400	PH (STANDARD UNITS)	08/28/77-08/28/77	0	1	
HOVE0012	No	00400	PH (STANDARD UNITS)	06/23/76-06/23/76	0	1	
HOVE0013	No	00400	PH (STANDARD UNITS)	08/28/77-08/28/77	0	1	
HOVE0015	No	00400	PH (STANDARD UNITS)	04/11/90-11/09/90	0	3	
HOVE0016	No	00400	PH (STANDARD UNITS)	08/27/77-08/27/77	0	1	
HOVE0017	No	00400	PH (STANDARD UNITS)	08/28/77-08/28/77	0	1	
HOVE0018	No	00400	PH (STANDARD UNITS)	08/28/77-08/28/77	0	1	
HOVE0019	No	00400	PH (STANDARD UNITS)	08/27/77-08/27/77	0	1	
HOVE0021	No	00400	PH (STANDARD UNITS)	08/28/77-08/28/77	0	1	
HOVE0022	No	00400	PH (STANDARD UNITS)	09/01/77-09/01/77	0	1	
HOVE0024	No	00400	PH (STANDARD UNITS)	08/27/77-08/27/77	0	1	
HOVE0025	No	00400	PH (STANDARD UNITS)	06/14/94-06/14/94	0	1	
HOVE0027	No	00400	PH (STANDARD UNITS)	08/28/77-08/28/77	0	1	
HOVE0030	No	00400	PH (STANDARD UNITS)	04/11/90-07/13/94	4	4	
HOVE0032	No	00400	PH (STANDARD UNITS)	08/28/77-08/28/77	0	1	
HOVE0034	No	00400	PH (STANDARD UNITS)	06/14/94-06/14/94	0	1	
HOVE0035	No	00400	PH (STANDARD UNITS)	08/28/77-08/28/77	0	1	
HOVE0036	No	00400	PH (STANDARD UNITS)	09/01/77-09/01/77	0	1	
HOVE0038	No	00400	PH (STANDARD UNITS)	07/06/72-09/16/80	8	258	A
HOVE0040	No	00400	PH (STANDARD UNITS)	01/23/68-04/01/82	14	81	T,S
HOVE0041	No	00400	PH (STANDARD UNITS)	08/31/77-08/31/77	0	1	
HOVE0042	No	00400	PH (STANDARD UNITS)	09/01/77-09/01/77	0	1	
HOVE0043	No	00400	PH (STANDARD UNITS)	09/04/79-09/04/79	0	1	
HOVE0044	No	00400	PH (STANDARD UNITS)	08/27/69-03/10/97	27	134	T,A,S
HOVE0047	Yes	00400	PH (STANDARD UNITS)	09/14/94-09/14/94	0	1	
HOVE0048	Yes	00400	PH (STANDARD UNITS)	09/14/94-09/14/94	0	1	
HOVE0049	No	00400	PH (STANDARD UNITS)	05/19/78-05/19/78	0	1	
HOVE0051	No	00400	PH (STANDARD UNITS)	03/27/90-11/14/90	0	3	
HOVE0052	No	00400	PH (STANDARD UNITS)	05/19/78-05/19/78	0	1	
HOVE0053	No	00400	PH (STANDARD UNITS)	05/19/78-05/19/78	0	1	
HOVE0054	Yes	00400	PH (STANDARD UNITS)	09/14/94-09/14/94	0	1	
HOVE0056	No	00400	PH (STANDARD UNITS)	03/27/90-11/14/90	0	3	
HOVE0057	Yes	00400	PH (STANDARD UNITS)	09/14/94-09/14/94	0	1	
HOVE0058	Yes	00400	PH (STANDARD UNITS)	09/14/94-09/14/94	0	1	
HOVE0059	Yes	00400	PH (STANDARD UNITS)	09/14/94-09/14/94	0	1	
HOVE0061	Yes	00400	PH (STANDARD UNITS)	05/01/59-05/01/59	0	1	
HOVE0062	No	00400	PH (STANDARD UNITS)	05/15/78-05/15/78	0	1	
HOVE0007	No	00403	PH, LAB, STANDARD UNITS SU	03/28/90-11/09/90	0	3	
HOVE0015	No	00403	PH, LAB, STANDARD UNITS SU	04/11/90-11/09/90	0	3	
HOVE0025	No	00403	PH, LAB, STANDARD UNITS SU	06/14/94-06/14/94	0	1	
HOVE0030	No	00403	PH, LAB, STANDARD UNITS SU	04/11/90-07/13/94	4	4	
HOVE0034	No	00403	PH, LAB, STANDARD UNITS SU	06/14/94-06/14/94	0	1	
HOVE0044	No	00403	PH, LAB, STANDARD UNITS SU	10/07/80-01/24/97	16	109	T,A,S
HOVE0051	No	00403	PH, LAB, STANDARD UNITS SU	03/27/90-11/14/90	0	3	
HOVE0056	No	00403	PH, LAB, STANDARD UNITS SU	03/27/90-11/14/90	0	3	
HOVE0044	No	00405	CARBON DIOXIDE (MG/L AS CO2)	12/27/77-06/26/79	1	10	
HOVE0061	Yes	00405	CARBON DIOXIDE (MG/L AS CO2)	05/01/59-05/01/59	0	1	
HOVE0005	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/28/90-11/09/90	0	3	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 03/10/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HOVE0014	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/11/90-11/14/90	0	3	
HOVE0023	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/23/94-07/07/94	0	2	
HOVE0026	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/14/94-06/14/94	0	1	
HOVE0031	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/11/90-07/13/94	4	4	
HOVE0033	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/14/94-06/14/94	0	1	
HOVE0040	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	02/15/78-04/01/82	4	14	
HOVE0043	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/04/79-09/04/79	0	1	
HOVE0044	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/27/69-09/08/80	11	22	
HOVE0046	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/27/90-11/14/90	0	3	
HOVE0047	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/14/94-09/14/94	0	1	
HOVE0048	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/14/94-09/14/94	0	1	
HOVE0050	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/27/90-11/14/90	0	3	
HOVE0054	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/14/94-09/14/94	0	1	
HOVE0055	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/27/90-11/14/90	0	3	
HOVE0057	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/14/94-09/14/94	0	1	
HOVE0058	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/14/94-09/14/94	0	1	
HOVE0059	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/14/94-09/14/94	0	1	
HOVE0060	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/08/54-09/08/54	0	1	
HOVE0061	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/01/59-05/01/59	0	1	
HOVE0063	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/08/54-09/08/54	0	1	
HOVE0038	No	00440	BICARBONATE ION (MG/L AS HCO3)	07/06/72-09/16/80	8	238	A
HOVE0044	No	00440	BICARBONATE ION (MG/L AS HCO3)	08/27/69-06/26/79	9	14	
HOVE0047	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	09/14/94-09/14/94	0	1	
HOVE0048	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	09/14/94-09/14/94	0	1	
HOVE0054	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	09/14/94-09/14/94	0	1	
HOVE0057	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	09/14/94-09/14/94	0	1	
HOVE0058	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	09/14/94-09/14/94	0	1	
HOVE0059	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	09/14/94-09/14/94	0	1	
HOVE0060	No	00440	BICARBONATE ION (MG/L AS HCO3)	09/08/54-09/08/54	0	1	
HOVE0061	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	05/01/59-05/01/59	0	1	
HOVE0063	No	00440	BICARBONATE ION (MG/L AS HCO3)	09/08/54-09/08/54	0	1	
HOVE0038	No	00445	CARBONATE ION (MG/L AS CO3)	07/06/72-09/16/80	8	238	A
HOVE0044	No	00445	CARBONATE ION (MG/L AS CO3)	12/19/69-06/26/79	9	14	
HOVE0047	Yes	00445	CARBONATE ION (MG/L AS CO3)	09/14/94-09/14/94	0	1	
HOVE0048	Yes	00445	CARBONATE ION (MG/L AS CO3)	09/14/94-09/14/94	0	1	
HOVE0054	Yes	00445	CARBONATE ION (MG/L AS CO3)	09/14/94-09/14/94	0	1	
HOVE0057	Yes	00445	CARBONATE ION (MG/L AS CO3)	09/14/94-09/14/94	0	1	
HOVE0058	Yes	00445	CARBONATE ION (MG/L AS CO3)	09/14/94-09/14/94	0	1	
HOVE0059	Yes	00445	CARBONATE ION (MG/L AS CO3)	09/14/94-09/14/94	0	1	
HOVE0060	No	00445	CARBONATE ION (MG/L AS CO3)	09/08/54-09/08/54	0	1	
HOVE0061	Yes	00445	CARBONATE ION (MG/L AS CO3)	05/01/59-05/01/59	0	1	
HOVE0063	No	00445	CARBONATE ION (MG/L AS CO3)	09/08/54-09/08/54	0	1	
HOVE0038	No	00500	RESIDUE, TOTAL (MG/L)	07/06/72-09/16/80	8	259	A
HOVE0040	No	00500	RESIDUE, TOTAL (MG/L)	04/16/74-09/10/75	1	8	
HOVE0040	No	00505	RESIDUE, TOTAL VOLATILE (MG/L)	07/09/68-05/02/73	4	11	
HOVE0040	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/09/68-04/01/82	13	61	T,S
HOVE0040	No	00545	RESIDUE, SETTLEABLE (ML/L)	07/09/68-05/02/73	4	12	
HOVE0044	No	00572	BIOMASS, PERIPHYTON (GRAMS PER SQUARE METER)	03/06/78-05/12/80	2	3	
HOVE0044	No	00573	BIOMASS, PERIPHYTON,DRY WEIGHT TOTAL (G/M2)	03/06/78-05/12/80	2	3	
HOVE0044	No	00600	NITROGEN, TOTAL (MG/L AS N)	12/27/77-07/27/81	3	23	
HOVE0044	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	12/27/77-07/27/81	3	23	
HOVE0007	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	11/09/90-11/09/90	0	1	
HOVE0015	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	11/09/90-11/09/90	0	1	
HOVE0030	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	11/15/90-11/15/90	0	1	
HOVE0044	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	11/14/90-11/14/90	0	1	
HOVE0051	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	11/14/90-11/14/90	0	1	
HOVE0056	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	11/14/90-11/14/90	0	1	
HOVE0040	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/18/68-04/01/82	13	72	T,S
HOVE0044	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/27/77-07/27/81	3	24	
HOVE0007	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	11/09/90-11/09/90	0	1	
HOVE0015	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	11/09/90-11/09/90	0	1	
HOVE0030	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	11/15/90-11/15/90	0	1	
HOVE0044	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	11/14/90-11/14/90	0	1	
HOVE0051	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	11/14/90-11/14/90	0	1	
HOVE0056	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	11/14/90-11/14/90	0	1	
HOVE0040	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	11/19/68-05/10/79	10	51	T
HOVE0047	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	09/14/94-09/14/94	0	1	
HOVE0048	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	09/14/94-09/14/94	0	1	
HOVE0054	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	09/14/94-09/14/94	0	1	
HOVE0057	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	09/14/94-09/14/94	0	1	
HOVE0058	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	09/14/94-09/14/94	0	1	
HOVE0059	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	09/14/94-09/14/94	0	1	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 03/10/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HOVE0060	No	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	09/08/54-09/08/54	0	1	
HOVE0061	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	05/01/59-05/01/59	0	1	
HOVE0063	No	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	09/08/54-09/08/54	0	1	
HOVE0040	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/18/68-08/02/79	10	56	T
HOVE0040	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/02/79-04/01/82	2	17	
HOVE0044	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	12/27/77-07/27/81	3	23	
HOVE0040	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/25/79-04/01/82	2	18	
HOVE0044	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	12/27/77-07/27/81	3	24	
HOVE0007	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	03/28/90-11/09/90	0	3	
HOVE0015	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	04/11/90-11/09/90	0	3	
HOVE0025	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	06/14/94-06/14/94	0	1	
HOVE0030	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	04/11/90-07/13/94	4	4	
HOVE0034	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	06/14/94-06/14/94	0	1	
HOVE0043	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	09/04/79-09/04/79	0	1	
HOVE0044	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/27/87-11/14/90	3	37	
HOVE0051	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	03/27/90-11/14/90	0	3	
HOVE0056	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	03/27/90-11/14/90	0	3	
HOVE0040	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	09/18/68-05/02/73	4	26	
HOVE0044	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	04/25/79-06/26/79	0	3	
HOVE0043	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/04/79-09/04/79	0	1	
HOVE0040	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/16/74-04/01/82	7	40	
HOVE0044	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	12/27/77-07/27/81	3	24	
HOVE0043	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	09/04/79-09/04/79	0	1	
HOVE0044	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	12/27/77-07/27/81	3	24	
HOVE0047	Yes	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	09/14/94-09/14/94	0	1	
HOVE0048	Yes	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	09/14/94-09/14/94	0	1	
HOVE0054	Yes	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	09/14/94-09/14/94	0	1	
HOVE0057	Yes	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	09/14/94-09/14/94	0	1	
HOVE0058	Yes	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	09/14/94-09/14/94	0	1	
HOVE0059	Yes	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	09/14/94-09/14/94	0	1	
HOVE0007	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	11/09/90-11/09/90	0	1	
HOVE0015	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	11/09/90-11/09/90	0	1	
HOVE0030	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	11/15/90-11/15/90	0	1	
HOVE0044	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	11/14/90-11/14/90	0	1	
HOVE0051	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	11/14/90-11/14/90	0	1	
HOVE0056	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	11/14/90-11/14/90	0	1	
HOVE0007	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/09/90-11/09/90	0	1	
HOVE0015	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/09/90-11/09/90	0	1	
HOVE0030	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/15/90-11/15/90	0	1	
HOVE0043	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/04/79-09/04/79	0	1	
HOVE0044	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/14/90-11/14/90	0	1	
HOVE0051	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/14/90-11/14/90	0	1	
HOVE0056	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/14/90-11/14/90	0	1	
HOVE0044	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	05/09/90-05/09/90	0	1	
HOVE0044	No	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	01/30/78-05/09/90	12	24	S
HOVE0044	No	00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	01/30/78-01/27/81	2	18	
HOVE0040	No	00723	CYANIDE, DISSOLVED STD METHOD (UG/L)	03/13/68-04/01/82	14	62	T,S
HOVE0005	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	03/28/90-11/09/90	0	3	
HOVE0014	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	04/11/90-11/14/90	0	3	
HOVE0023	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	03/23/94-07/07/94	0	2	
HOVE0026	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/14/94-06/14/94	0	1	
HOVE0031	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	04/11/90-07/13/94	4	4	
HOVE0033	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/14/94-06/14/94	0	1	
HOVE0040	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	03/13/68-12/09/80	12	67	T,S
HOVE0043	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/04/79-09/04/79	0	1	
HOVE0044	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	12/19/69-02/23/88	18	28	
HOVE0046	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	03/27/90-11/14/90	0	3	
HOVE0047	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/14/94-09/14/94	0	1	
HOVE0048	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/14/94-09/14/94	0	1	
HOVE0050	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	03/27/90-11/14/90	0	3	
HOVE0054	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/14/94-09/14/94	0	1	
HOVE0055	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	03/27/90-11/14/90	0	3	
HOVE0057	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/14/94-09/14/94	0	1	
HOVE0058	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/14/94-09/14/94	0	1	
HOVE0059	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/14/94-09/14/94	0	1	
HOVE0060	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/08/54-09/08/54	0	1	
HOVE0061	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/01/59-05/01/59	0	1	
HOVE0063	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/08/54-09/08/54	0	1	
HOVE0043	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/04/79-09/04/79	0	1	
HOVE0044	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/27/69-07/27/81	11	26	
HOVE0060	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/08/54-09/08/54	0	1	
HOVE0061	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	05/01/59-05/01/59	0	1	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 03/10/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HOVE0063	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/08/54-09/08/54	0	1	
HOVE0040	No	00910	CALCIUM (MG/L AS CACO3)	03/13/68-12/09/80	12	67	T,S
HOVE0003	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/28/77-08/28/77	0	1	
HOVE0004	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/28/77-08/28/77	0	1	
HOVE0007	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	03/28/90-11/09/90	0	3	
HOVE0009	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/28/77-08/28/77	0	1	
HOVE0010	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/28/77-08/28/77	0	1	
HOVE0013	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/28/77-08/28/77	0	1	
HOVE0015	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	04/11/90-11/09/90	0	3	
HOVE0016	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/27/77-08/27/77	0	1	
HOVE0017	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/28/77-08/28/77	0	1	
HOVE0018	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/28/77-08/28/77	0	1	
HOVE0019	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/27/77-08/27/77	0	1	
HOVE0021	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/28/77-08/28/77	0	1	
HOVE0022	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/01/77-09/01/77	0	1	
HOVE0024	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/27/77-08/27/77	0	1	
HOVE0025	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/14/94-06/14/94	0	1	
HOVE0027	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/28/77-08/28/77	0	1	
HOVE0029	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/26/77-08/26/77	0	1	
HOVE0030	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	04/11/90-07/13/94	4	4	
HOVE0032	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/28/77-08/28/77	0	1	
HOVE0034	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/14/94-06/14/94	0	1	
HOVE0035	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/28/77-08/28/77	0	1	
HOVE0036	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/01/77-09/01/77	0	1	
HOVE0041	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/31/77-08/31/77	0	1	
HOVE0042	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/01/77-09/01/77	0	1	
HOVE0043	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/04/79-09/04/79	0	1	
HOVE0044	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/27/69-01/24/97	27	133	T,A,S
HOVE0047	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/14/94-09/14/94	0	1	
HOVE0048	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/14/94-09/14/94	0	1	
HOVE0049	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/19/78-05/19/78	0	1	
HOVE0051	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	03/27/90-11/14/90	0	3	
HOVE0052	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/19/78-05/19/78	0	1	
HOVE0053	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/19/78-05/19/78	0	1	
HOVE0054	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/14/94-09/14/94	0	1	
HOVE0056	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	03/27/90-11/14/90	0	3	
HOVE0057	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/14/94-09/14/94	0	1	
HOVE0058	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/14/94-09/14/94	0	1	
HOVE0059	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/14/94-09/14/94	0	1	
HOVE0060	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/08/54-09/08/54	0	1	
HOVE0061	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/01/59-05/01/59	0	1	
HOVE0062	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/15/78-05/15/78	0	1	
HOVE0063	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/08/54-09/08/54	0	1	
HOVE0038	No	00916	CALCIUM, TOTAL (MG/L AS CA)	07/06/72-09/16/80	8	238	A
HOVE0007	No	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	11/09/90-11/09/90	0	1	
HOVE0015	No	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	11/09/90-11/09/90	0	1	
HOVE0030	No	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	11/15/90-11/15/90	0	1	
HOVE0044	No	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	11/14/90-11/14/90	0	1	
HOVE0051	No	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	11/14/90-11/14/90	0	1	
HOVE0056	No	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	11/14/90-11/14/90	0	1	
HOVE0007	No	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	11/09/90-11/09/90	0	1	
HOVE0015	No	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	11/09/90-11/09/90	0	1	
HOVE0030	No	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	11/15/90-11/15/90	0	1	
HOVE0044	No	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	11/14/90-11/14/90	0	1	
HOVE0051	No	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	11/14/90-11/14/90	0	1	
HOVE0056	No	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	11/14/90-11/14/90	0	1	
HOVE0003	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/28/77-08/28/77	0	1	
HOVE0004	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/28/77-08/28/77	0	1	
HOVE0007	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/28/90-11/09/90	0	3	
HOVE0009	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/28/77-08/28/77	0	1	
HOVE0010	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/28/77-08/28/77	0	1	
HOVE0013	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/28/77-08/28/77	0	1	
HOVE0015	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	04/11/90-11/09/90	0	3	
HOVE0016	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/27/77-08/27/77	0	1	
HOVE0017	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/28/77-08/28/77	0	1	
HOVE0018	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/28/77-08/28/77	0	1	
HOVE0019	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/27/77-08/27/77	0	1	
HOVE0021	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/28/77-08/28/77	0	1	
HOVE0022	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/01/77-09/01/77	0	1	
HOVE0024	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/27/77-08/27/77	0	1	
HOVE0025	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/14/94-06/14/94	0	1	
HOVE0027	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/28/77-08/28/77	0	1	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 03/10/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HOVE0029	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/26/77-08/26/77	0	1	
HOVE0030	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	04/11/90-07/13/94	4	4	
HOVE0032	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/28/77-08/28/77	0	1	
HOVE0034	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/14/94-06/14/94	0	1	
HOVE0035	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/28/77-08/28/77	0	1	
HOVE0036	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/01/77-09/01/77	0	1	
HOVE0038	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/06/72-09/16/80	8	238	A
HOVE0041	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/31/77-08/31/77	0	1	
HOVE0042	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/01/77-09/01/77	0	1	
HOVE0043	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/04/79-09/04/79	0	1	
HOVE0044	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/27/69-01/24/97	27	133	T,A,S
HOVE0047	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/14/94-09/14/94	0	1	
HOVE0048	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/14/94-09/14/94	0	1	
HOVE0049	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/19/78-05/19/78	0	1	
HOVE0051	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/27/90-11/14/90	0	3	
HOVE0052	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/19/78-05/19/78	0	1	
HOVE0053	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/19/78-05/19/78	0	1	
HOVE0054	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/14/94-09/14/94	0	1	
HOVE0056	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/27/90-11/14/90	0	3	
HOVE0057	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/14/94-09/14/94	0	1	
HOVE0058	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/14/94-09/14/94	0	1	
HOVE0059	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/14/94-09/14/94	0	1	
HOVE0060	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/08/54-09/08/54	0	1	
HOVE0061	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/01/59-05/01/59	0	1	
HOVE0062	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/15/78-05/15/78	0	1	
HOVE0063	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/08/54-09/08/54	0	1	
HOVE0040	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	03/13/68-12/09/80	12	67	T,S
HOVE0040	No	00929	SODIUM, TOTAL (MG/L AS NA)	03/13/68-06/04/80	12	66	T,S
HOVE0007	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	03/28/90-11/09/90	0	3	
HOVE0015	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	04/11/90-11/09/90	0	3	
HOVE0025	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	06/14/94-06/14/94	0	1	
HOVE0030	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	04/11/90-07/13/94	4	4	
HOVE0034	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	06/14/94-06/14/94	0	1	
HOVE0038	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/06/72-09/16/80	8	238	A
HOVE0043	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/04/79-09/04/79	0	1	
HOVE0044	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/27/69-01/24/97	27	133	T,A,S
HOVE0047	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/14/94-09/14/94	0	1	
HOVE0048	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/14/94-09/14/94	0	1	
HOVE0051	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	03/27/90-11/14/90	0	3	
HOVE0054	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/14/94-09/14/94	0	1	
HOVE0056	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	03/27/90-11/14/90	0	3	
HOVE0057	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/14/94-09/14/94	0	1	
HOVE0058	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/14/94-09/14/94	0	1	
HOVE0059	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/14/94-09/14/94	0	1	
HOVE0005	No	00931	SODIUM ADSORPTION RATIO	03/28/90-11/09/90	0	3	
HOVE0014	No	00931	SODIUM ADSORPTION RATIO	04/11/90-11/14/90	0	3	
HOVE0031	No	00931	SODIUM ADSORPTION RATIO	04/11/90-11/15/90	0	2	
HOVE0040	No	00931	SODIUM ADSORPTION RATIO	03/13/68-06/04/80	12	66	T,S
HOVE0043	No	00931	SODIUM ADSORPTION RATIO	09/04/79-09/04/79	0	1	
HOVE0044	No	00931	SODIUM ADSORPTION RATIO	08/27/69-02/23/88	18	29	
HOVE0046	No	00931	SODIUM ADSORPTION RATIO	03/27/90-11/14/90	0	3	
HOVE0050	No	00931	SODIUM ADSORPTION RATIO	03/27/90-11/14/90	0	3	
HOVE0055	No	00931	SODIUM ADSORPTION RATIO	03/27/90-11/14/90	0	3	
HOVE0060	No	00931	SODIUM ADSORPTION RATIO	09/08/54-09/08/54	0	1	
HOVE0061	Yes	00931	SODIUM ADSORPTION RATIO	05/01/59-05/01/59	0	1	
HOVE0063	No	00931	SODIUM ADSORPTION RATIO	09/08/54-09/08/54	0	1	
HOVE0043	No	00932	SODIUM, PERCENT	09/04/79-09/04/79	0	1	
HOVE0044	No	00932	SODIUM, PERCENT	08/27/69-02/23/88	18	28	
HOVE0060	No	00932	SODIUM, PERCENT	09/08/54-09/08/54	0	1	
HOVE0061	Yes	00932	SODIUM, PERCENT	05/01/59-05/01/59	0	1	
HOVE0063	No	00932	SODIUM, PERCENT	09/08/54-09/08/54	0	1	
HOVE0043	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	09/04/79-09/04/79	0	1	
HOVE0044	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	05/22/79-02/05/80	0	5	
HOVE0060	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	09/08/54-09/08/54	0	1	
HOVE0061	Yes	00933	SODIUM,PLUS POTASSIUM (MG/L)	05/01/59-05/01/59	0	1	
HOVE0063	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	09/08/54-09/08/54	0	1	
HOVE0007	No	00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	11/09/90-11/09/90	0	1	
HOVE0015	No	00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	11/09/90-11/09/90	0	1	
HOVE0030	No	00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	11/15/90-11/15/90	0	1	
HOVE0044	No	00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	11/14/90-11/14/90	0	1	
HOVE0051	No	00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	11/14/90-11/14/90	0	1	
HOVE0056	No	00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	11/14/90-11/14/90	0	1	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 03/10/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HOVE0007	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	03/28/90-11/09/90	0	3	
HOVE0015	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	04/11/90-11/09/90	0	3	
HOVE0025	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	06/14/94-06/14/94	0	1	
HOVE0030	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	04/11/90-07/13/94	4	4	
HOVE0034	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	06/14/94-06/14/94	0	1	
HOVE0038	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/06/72-09/16/80	8	238	A
HOVE0043	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/04/79-09/04/79	0	1	
HOVE0044	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/27/69-01/24/97	27	132	T,A,S
HOVE0047	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/14/94-09/14/94	0	1	
HOVE0048	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/14/94-09/14/94	0	1	
HOVE0051	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	03/27/90-11/14/90	0	3	
HOVE0054	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/14/94-09/14/94	0	1	
HOVE0056	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	03/27/90-11/14/90	0	3	
HOVE0057	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/14/94-09/14/94	0	1	
HOVE0058	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/14/94-09/14/94	0	1	
HOVE0059	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/14/94-09/14/94	0	1	
HOVE0040	No	00937	POTASSIUM, TOTAL MG/L AS K)	02/15/78-11/05/81	3	9	
HOVE0007	No	00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	11/09/90-11/09/90	0	1	
HOVE0015	No	00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	11/09/90-11/09/90	0	1	
HOVE0030	No	00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	11/15/90-11/15/90	0	1	
HOVE0044	No	00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	11/14/90-11/14/90	0	1	
HOVE0051	No	00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	11/14/90-11/14/90	0	1	
HOVE0056	No	00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	11/14/90-11/14/90	0	1	
HOVE0007	No	00940	CHLORIDE,TOTAL IN WATER MG/L	03/28/90-11/09/90	0	3	
HOVE0015	No	00940	CHLORIDE,TOTAL IN WATER MG/L	04/11/90-11/09/90	0	3	
HOVE0025	No	00940	CHLORIDE,TOTAL IN WATER MG/L	06/14/94-06/14/94	0	1	
HOVE0030	No	00940	CHLORIDE,TOTAL IN WATER MG/L	04/11/90-07/13/94	4	4	
HOVE0034	No	00940	CHLORIDE,TOTAL IN WATER MG/L	06/14/94-06/14/94	0	1	
HOVE0038	No	00940	CHLORIDE,TOTAL IN WATER MG/L	07/06/72-09/16/80	8	238	A
HOVE0040	No	00940	CHLORIDE,TOTAL IN WATER MG/L	03/13/68-06/04/80	12	66	T,S
HOVE0043	No	00940	CHLORIDE,TOTAL IN WATER MG/L	09/04/79-09/04/79	0	1	
HOVE0044	No	00940	CHLORIDE,TOTAL IN WATER MG/L	08/27/69-01/24/97	27	133	T,A,S
HOVE0051	No	00940	CHLORIDE,TOTAL IN WATER MG/L	03/27/90-11/14/90	0	3	
HOVE0056	No	00940	CHLORIDE,TOTAL IN WATER MG/L	03/27/90-11/14/90	0	3	
HOVE0060	No	00940	CHLORIDE,TOTAL IN WATER MG/L	09/08/54-09/08/54	0	1	
HOVE0061	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	05/01/59-05/01/59	0	1	
HOVE0063	No	00940	CHLORIDE,TOTAL IN WATER MG/L	09/08/54-09/08/54	0	1	
HOVE0047	Yes	00941	CHLORIDE, DISSOLVED IN WATER MG/L	09/14/94-09/14/94	0	1	
HOVE0048	Yes	00941	CHLORIDE, DISSOLVED IN WATER MG/L	09/14/94-09/14/94	0	1	
HOVE0054	Yes	00941	CHLORIDE, DISSOLVED IN WATER MG/L	09/14/94-09/14/94	0	1	
HOVE0057	Yes	00941	CHLORIDE, DISSOLVED IN WATER MG/L	09/14/94-09/14/94	0	1	
HOVE0058	Yes	00941	CHLORIDE, DISSOLVED IN WATER MG/L	09/14/94-09/14/94	0	1	
HOVE0059	Yes	00941	CHLORIDE, DISSOLVED IN WATER MG/L	09/14/94-09/14/94	0	1	
HOVE0007	No	00945	SULFATE, TOTAL (MG/L AS SO4)	03/28/90-11/09/90	0	3	
HOVE0015	No	00945	SULFATE, TOTAL (MG/L AS SO4)	04/11/90-11/09/90	0	3	
HOVE0025	No	00945	SULFATE, TOTAL (MG/L AS SO4)	06/14/94-06/14/94	0	1	
HOVE0030	No	00945	SULFATE, TOTAL (MG/L AS SO4)	04/11/90-07/13/94	4	4	
HOVE0034	No	00945	SULFATE, TOTAL (MG/L AS SO4)	06/14/94-06/14/94	0	1	
HOVE0040	No	00945	SULFATE, TOTAL (MG/L AS SO4)	09/18/68-04/01/82	13	72	T,S
HOVE0043	No	00945	SULFATE, TOTAL (MG/L AS SO4)	09/04/79-09/04/79	0	1	
HOVE0044	No	00945	SULFATE, TOTAL (MG/L AS SO4)	08/27/69-01/24/97	27	133	T,A,S
HOVE0051	No	00945	SULFATE, TOTAL (MG/L AS SO4)	03/27/90-11/14/90	0	3	
HOVE0056	No	00945	SULFATE, TOTAL (MG/L AS SO4)	03/27/90-11/14/90	0	3	
HOVE0060	No	00945	SULFATE, TOTAL (MG/L AS SO4)	09/08/54-09/08/54	0	1	
HOVE0061	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	05/01/59-05/01/59	0	1	
HOVE0063	No	00945	SULFATE, TOTAL (MG/L AS SO4)	09/08/54-09/08/54	0	1	
HOVE0038	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	07/06/72-09/16/80	8	238	A
HOVE0047	Yes	00946	SULFATE, DISSOLVED (MG/L AS SO4)	09/14/94-09/14/94	0	1	
HOVE0048	Yes	00946	SULFATE, DISSOLVED (MG/L AS SO4)	09/14/94-09/14/94	0	1	
HOVE0054	Yes	00946	SULFATE, DISSOLVED (MG/L AS SO4)	09/14/94-09/14/94	0	1	
HOVE0057	Yes	00946	SULFATE, DISSOLVED (MG/L AS SO4)	09/14/94-09/14/94	0	1	
HOVE0058	Yes	00946	SULFATE, DISSOLVED (MG/L AS SO4)	09/14/94-09/14/94	0	1	
HOVE0059	Yes	00946	SULFATE, DISSOLVED (MG/L AS SO4)	09/14/94-09/14/94	0	1	
HOVE0007	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/09/90-11/09/90	0	1	
HOVE0015	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/09/90-11/09/90	0	1	
HOVE0025	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	06/14/94-06/14/94	0	1	
HOVE0030	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/15/90-07/13/94	3	3	
HOVE0034	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	06/14/94-06/14/94	0	1	
HOVE0043	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/04/79-09/04/79	0	1	
HOVE0044	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	12/27/77-01/24/97	19	127	T,A,S
HOVE0051	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/14/90-11/14/90	0	1	
HOVE0056	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/14/90-11/14/90	0	1	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 03/10/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HOVE0060	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/08/54-09/08/54	0	1	
HOVE0061	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/01/59-05/01/59	0	1	
HOVE0063	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/08/54-09/08/54	0	1	
HOVE0040	No	00951	FLUORIDE, TOTAL (MG/L AS F)	03/13/68-07/12/77	9	34	
HOVE0007	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	07/18/90-11/09/90	0	2	
HOVE0015	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	07/19/90-11/09/90	0	2	
HOVE0025	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	06/14/94-06/14/94	0	1	
HOVE0030	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	11/15/90-07/13/94	3	3	
HOVE0034	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	06/14/94-06/14/94	0	1	
HOVE0043	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/04/79-09/04/79	0	1	
HOVE0044	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	12/27/77-01/24/97	19	128	A,S
HOVE0051	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	07/16/90-11/14/90	0	2	
HOVE0056	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	07/16/90-11/14/90	0	2	
HOVE0060	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/08/54-09/08/54	0	1	
HOVE0061	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	05/01/59-05/01/59	0	1	
HOVE0063	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/08/54-09/08/54	0	1	
HOVE0040	No	00980	IRON,TOTAL RECOVERABLE IN WATER AS FE UG/L	03/13/68-04/01/82	14	77	T,S
HOVE0040	No	00998	BERYLLIUM,TOTAL RECOVERABLE IN WATER AS BE UG/L	05/10/79-11/05/81	2	6	
HOVE0007	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/28/90-11/09/90	0	3	
HOVE0015	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	04/11/90-11/09/90	0	3	
HOVE0030	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	04/11/90-11/15/90	0	2	
HOVE0044	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/06/78-11/14/90	12	11	
HOVE0051	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/27/90-11/14/90	0	3	
HOVE0056	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/27/90-11/14/90	0	3	
HOVE0044	No	01001	ARSENIC, SUSPENDED (UG/L AS AS)	06/09/80-05/26/81	0	3	
HOVE0040	No	01002	ARSENIC, TOTAL (UG/L AS AS)	03/13/68-02/01/82	13	59	T,S
HOVE0044	No	01002	ARSENIC, TOTAL (UG/L AS AS)	05/22/79-05/26/81	2	4	
HOVE0007	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	11/09/90-11/09/90	0	1	
HOVE0015	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	11/09/90-11/09/90	0	1	
HOVE0030	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	11/15/90-11/15/90	0	1	
HOVE0044	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	03/06/78-11/14/90	12	7	
HOVE0051	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	11/14/90-11/14/90	0	1	
HOVE0056	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	11/14/90-11/14/90	0	1	
HOVE0044	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	03/06/78-05/26/81	3	7	
HOVE0047	Yes	01005	BARIUM, DISSOLVED (UG/L AS BA)	09/14/94-09/14/94	0	1	
HOVE0048	Yes	01005	BARIUM, DISSOLVED (UG/L AS BA)	09/14/94-09/14/94	0	1	
HOVE0054	Yes	01005	BARIUM, DISSOLVED (UG/L AS BA)	09/14/94-09/14/94	0	1	
HOVE0057	Yes	01005	BARIUM, DISSOLVED (UG/L AS BA)	09/14/94-09/14/94	0	1	
HOVE0058	Yes	01005	BARIUM, DISSOLVED (UG/L AS BA)	09/14/94-09/14/94	0	1	
HOVE0059	Yes	01005	BARIUM, DISSOLVED (UG/L AS BA)	09/14/94-09/14/94	0	1	
HOVE0044	No	01006	BARIUM, SUSPENDED (UG/L AS BA)	05/22/79-05/26/81	2	4	
HOVE0044	No	01007	BARIUM, TOTAL (UG/L AS BA)	05/22/79-05/26/81	2	4	
HOVE0007	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	11/09/90-11/09/90	0	1	
HOVE0015	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	11/09/90-11/09/90	0	1	
HOVE0030	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	11/15/90-11/15/90	0	1	
HOVE0044	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	03/06/78-11/14/90	12	7	
HOVE0051	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	11/14/90-11/14/90	0	1	
HOVE0056	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	11/14/90-11/14/90	0	1	
HOVE0044	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	03/06/78-05/26/81	3	7	
HOVE0044	No	01011	BERYLLIUM, SUSPENDED (UG/L AS BE)	05/22/79-05/22/79	0	1	
HOVE0044	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	05/22/79-05/26/81	2	4	
HOVE0007	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	11/09/90-11/09/90	0	1	
HOVE0015	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	11/09/90-11/09/90	0	1	
HOVE0030	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	11/15/90-11/15/90	0	1	
HOVE0044	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	03/06/78-11/14/90	12	7	
HOVE0051	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	11/14/90-11/14/90	0	1	
HOVE0056	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	11/14/90-11/14/90	0	1	
HOVE0007	No	01020	BORON, DISSOLVED (UG/L AS B)	03/28/90-11/09/90	0	3	
HOVE0015	No	01020	BORON, DISSOLVED (UG/L AS B)	04/11/90-11/09/90	0	3	
HOVE0030	No	01020	BORON, DISSOLVED (UG/L AS B)	04/11/90-11/15/90	0	2	
HOVE0044	No	01020	BORON, DISSOLVED (UG/L AS B)	12/27/77-11/14/90	12	28	
HOVE0047	Yes	01020	BORON, DISSOLVED (UG/L AS B)	09/14/94-09/14/94	0	1	
HOVE0048	Yes	01020	BORON, DISSOLVED (UG/L AS B)	09/14/94-09/14/94	0	1	
HOVE0051	No	01020	BORON, DISSOLVED (UG/L AS B)	03/27/90-11/14/90	0	3	
HOVE0054	Yes	01020	BORON, DISSOLVED (UG/L AS B)	09/14/94-09/14/94	0	1	
HOVE0056	No	01020	BORON, DISSOLVED (UG/L AS B)	03/27/90-11/14/90	0	3	
HOVE0057	Yes	01020	BORON, DISSOLVED (UG/L AS B)	09/14/94-09/14/94	0	1	
HOVE0058	Yes	01020	BORON, DISSOLVED (UG/L AS B)	09/14/94-09/14/94	0	1	
HOVE0059	Yes	01020	BORON, DISSOLVED (UG/L AS B)	09/14/94-09/14/94	0	1	
HOVE0061	Yes	01020	BORON, DISSOLVED (UG/L AS B)	05/01/59-05/01/59	0	1	
HOVE0040	No	01022	BORON, TOTAL (UG/L AS B)	01/23/68-11/05/81	13	55	T,S
HOVE0007	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/28/90-11/09/90	0	3	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 03/10/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HOVE0015	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	04/11/90-11/09/90	0	3	
HOVE0030	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	04/11/90-11/15/90	0	2	
HOVE0044	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/06/78-11/14/90	12	11	
HOVE0047	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/14/94-09/14/94	0	1	
HOVE0048	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/14/94-09/14/94	0	1	
HOVE0051	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/27/90-11/14/90	0	3	
HOVE0054	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/14/94-09/14/94	0	1	
HOVE0056	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/27/90-11/14/90	0	3	
HOVE0057	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/14/94-09/14/94	0	1	
HOVE0058	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/14/94-09/14/94	0	1	
HOVE0059	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/14/94-09/14/94	0	1	
HOVE0044	No	01026	CADMIUM, SUSPENDED (UG/L AS CD)	05/22/79-05/22/79	0	1	
HOVE0044	No	01027	CADMIUM, TOTAL (UG/L AS CD)	05/22/79-05/26/81	2	4	
HOVE0007	No	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	11/09/90-11/09/90	0	1	
HOVE0015	No	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	11/09/90-11/09/90	0	1	
HOVE0030	No	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	11/15/90-11/15/90	0	1	
HOVE0044	No	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	03/06/78-11/14/90	12	7	
HOVE0051	No	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	11/14/90-11/14/90	0	1	
HOVE0056	No	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	11/14/90-11/14/90	0	1	
HOVE0007	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	11/09/90-11/09/90	0	1	
HOVE0015	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	11/09/90-11/09/90	0	1	
HOVE0030	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	11/15/90-11/15/90	0	1	
HOVE0044	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	03/06/78-11/14/90	12	7	
HOVE0051	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	11/14/90-11/14/90	0	1	
HOVE0056	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	11/14/90-11/14/90	0	1	
HOVE0003	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	08/28/77-08/28/77	0	1	
HOVE0004	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	08/28/77-08/28/77	0	1	
HOVE0007	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/28/90-11/09/90	0	3	
HOVE0009	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	08/28/77-08/28/77	0	1	
HOVE0010	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	08/28/77-08/28/77	0	1	
HOVE0013	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	08/28/77-08/28/77	0	1	
HOVE0015	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	04/11/90-11/09/90	0	3	
HOVE0016	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	08/27/77-08/27/77	0	1	
HOVE0017	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	08/28/77-08/28/77	0	1	
HOVE0018	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	08/28/77-08/28/77	0	1	
HOVE0019	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	08/27/77-08/27/77	0	1	
HOVE0021	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	08/28/77-08/28/77	0	1	
HOVE0022	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/01/77-09/01/77	0	1	
HOVE0024	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	08/27/77-08/27/77	0	1	
HOVE0027	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	08/28/77-08/28/77	0	1	
HOVE0029	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	08/26/77-08/26/77	0	1	
HOVE0030	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	04/11/90-11/15/90	0	2	
HOVE0032	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	08/28/77-08/28/77	0	1	
HOVE0035	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	08/28/77-08/28/77	0	1	
HOVE0036	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/01/77-09/01/77	0	1	
HOVE0041	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	08/31/77-08/31/77	0	1	
HOVE0042	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/01/77-09/01/77	0	1	
HOVE0044	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/06/78-11/14/90	12	11	
HOVE0047	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/14/94-09/14/94	0	1	
HOVE0048	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/14/94-09/14/94	0	1	
HOVE0049	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/19/78-05/19/78	0	1	
HOVE0051	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/27/90-11/14/90	0	3	
HOVE0052	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/19/78-05/19/78	0	1	
HOVE0053	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/19/78-05/19/78	0	1	
HOVE0054	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/14/94-09/14/94	0	1	
HOVE0056	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/27/90-11/14/90	0	3	
HOVE0057	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/14/94-09/14/94	0	1	
HOVE0058	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/14/94-09/14/94	0	1	
HOVE0059	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/14/94-09/14/94	0	1	
HOVE0062	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/15/78-05/15/78	0	1	
HOVE0044	No	01031	CHROMIUM, SUSPEND (UG/L AS CR)	05/22/79-05/26/81	2	4	
HOVE0040	No	01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	03/13/68-12/15/76	8	27	
HOVE0044	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	05/22/79-05/26/81	2	4	
HOVE0003	No	01035	COBALT, DISSOLVED (UG/L AS CO)	08/28/77-08/28/77	0	1	
HOVE0004	No	01035	COBALT, DISSOLVED (UG/L AS CO)	08/28/77-08/28/77	0	1	
HOVE0009	No	01035	COBALT, DISSOLVED (UG/L AS CO)	08/28/77-08/28/77	0	1	
HOVE0010	No	01035	COBALT, DISSOLVED (UG/L AS CO)	08/28/77-08/28/77	0	1	
HOVE0013	No	01035	COBALT, DISSOLVED (UG/L AS CO)	08/28/77-08/28/77	0	1	
HOVE0016	No	01035	COBALT, DISSOLVED (UG/L AS CO)	08/27/77-08/27/77	0	1	
HOVE0017	No	01035	COBALT, DISSOLVED (UG/L AS CO)	08/28/77-08/28/77	0	1	
HOVE0018	No	01035	COBALT, DISSOLVED (UG/L AS CO)	08/28/77-08/28/77	0	1	
HOVE0019	No	01035	COBALT, DISSOLVED (UG/L AS CO)	08/27/77-08/27/77	0	1	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 03/10/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HOVE0021	No	01035	COBALT, DISSOLVED (UG/L AS CO)	08/28/77-08/28/77	0	1	
HOVE0022	No	01035	COBALT, DISSOLVED (UG/L AS CO)	09/01/77-09/01/77	0	1	
HOVE0024	No	01035	COBALT, DISSOLVED (UG/L AS CO)	08/27/77-08/27/77	0	1	
HOVE0027	No	01035	COBALT, DISSOLVED (UG/L AS CO)	08/28/77-08/28/77	0	1	
HOVE0029	No	01035	COBALT, DISSOLVED (UG/L AS CO)	08/26/77-08/26/77	0	1	
HOVE0032	No	01035	COBALT, DISSOLVED (UG/L AS CO)	08/28/77-08/28/77	0	1	
HOVE0035	No	01035	COBALT, DISSOLVED (UG/L AS CO)	08/28/77-08/28/77	0	1	
HOVE0036	No	01035	COBALT, DISSOLVED (UG/L AS CO)	09/01/77-09/01/77	0	1	
HOVE0041	No	01035	COBALT, DISSOLVED (UG/L AS CO)	08/31/77-08/31/77	0	1	
HOVE0042	No	01035	COBALT, DISSOLVED (UG/L AS CO)	09/01/77-09/01/77	0	1	
HOVE0044	No	01035	COBALT, DISSOLVED (UG/L AS CO)	03/06/78-05/26/81	3	7	
HOVE0049	No	01035	COBALT, DISSOLVED (UG/L AS CO)	05/19/78-05/19/78	0	1	
HOVE0051	No	01035	COBALT, DISSOLVED (UG/L AS CO)	03/27/90-03/27/90	0	1	
HOVE0052	No	01035	COBALT, DISSOLVED (UG/L AS CO)	05/19/78-05/19/78	0	1	
HOVE0053	No	01035	COBALT, DISSOLVED (UG/L AS CO)	05/19/78-05/19/78	0	1	
HOVE0062	No	01035	COBALT, DISSOLVED (UG/L AS CO)	05/15/78-05/15/78	0	1	
HOVE0044	No	01036	COBALT, SUSPENDED (UG/L AS CO)	05/22/79-05/22/79	0	1	
HOVE0044	No	01037	COBALT, TOTAL (UG/L AS CO)	05/22/79-05/26/81	2	4	
HOVE0007	No	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	11/09/90-11/09/90	0	1	
HOVE0015	No	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	11/09/90-11/09/90	0	1	
HOVE0030	No	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	11/15/90-11/15/90	0	1	
HOVE0044	No	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	03/06/78-11/14/90	12	7	
HOVE0051	No	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	11/14/90-11/14/90	0	1	
HOVE0056	No	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	11/14/90-11/14/90	0	1	
HOVE0003	No	01040	COPPER, DISSOLVED (UG/L AS CU)	08/28/77-08/28/77	0	1	
HOVE0004	No	01040	COPPER, DISSOLVED (UG/L AS CU)	08/28/77-08/28/77	0	1	
HOVE0007	No	01040	COPPER, DISSOLVED (UG/L AS CU)	03/28/90-11/09/90	0	3	
HOVE0009	No	01040	COPPER, DISSOLVED (UG/L AS CU)	08/28/77-08/28/77	0	1	
HOVE0010	No	01040	COPPER, DISSOLVED (UG/L AS CU)	08/28/77-08/28/77	0	1	
HOVE0013	No	01040	COPPER, DISSOLVED (UG/L AS CU)	08/28/77-08/28/77	0	1	
HOVE0015	No	01040	COPPER, DISSOLVED (UG/L AS CU)	04/11/90-11/09/90	0	3	
HOVE0016	No	01040	COPPER, DISSOLVED (UG/L AS CU)	08/27/77-08/27/77	0	1	
HOVE0017	No	01040	COPPER, DISSOLVED (UG/L AS CU)	08/28/77-08/28/77	0	1	
HOVE0018	No	01040	COPPER, DISSOLVED (UG/L AS CU)	08/28/77-08/28/77	0	1	
HOVE0019	No	01040	COPPER, DISSOLVED (UG/L AS CU)	08/27/77-08/27/77	0	1	
HOVE0021	No	01040	COPPER, DISSOLVED (UG/L AS CU)	08/28/77-08/28/77	0	1	
HOVE0022	No	01040	COPPER, DISSOLVED (UG/L AS CU)	09/01/77-09/01/77	0	1	
HOVE0024	No	01040	COPPER, DISSOLVED (UG/L AS CU)	08/27/77-08/27/77	0	1	
HOVE0027	No	01040	COPPER, DISSOLVED (UG/L AS CU)	08/28/77-08/28/77	0	1	
HOVE0029	No	01040	COPPER, DISSOLVED (UG/L AS CU)	08/26/77-08/26/77	0	1	
HOVE0030	No	01040	COPPER, DISSOLVED (UG/L AS CU)	04/11/90-11/15/90	0	2	
HOVE0032	No	01040	COPPER, DISSOLVED (UG/L AS CU)	08/28/77-08/28/77	0	1	
HOVE0035	No	01040	COPPER, DISSOLVED (UG/L AS CU)	08/28/77-08/28/77	0	1	
HOVE0036	No	01040	COPPER, DISSOLVED (UG/L AS CU)	09/01/77-09/01/77	0	1	
HOVE0041	No	01040	COPPER, DISSOLVED (UG/L AS CU)	08/31/77-08/31/77	0	1	
HOVE0042	No	01040	COPPER, DISSOLVED (UG/L AS CU)	09/01/77-09/01/77	0	1	
HOVE0044	No	01040	COPPER, DISSOLVED (UG/L AS CU)	03/06/78-11/14/90	12	11	
HOVE0047	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	09/14/94-09/14/94	0	1	
HOVE0048	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	09/14/94-09/14/94	0	1	
HOVE0049	No	01040	COPPER, DISSOLVED (UG/L AS CU)	05/19/78-05/19/78	0	1	
HOVE0051	No	01040	COPPER, DISSOLVED (UG/L AS CU)	03/27/90-11/14/90	0	3	
HOVE0052	No	01040	COPPER, DISSOLVED (UG/L AS CU)	05/19/78-05/19/78	0	1	
HOVE0053	No	01040	COPPER, DISSOLVED (UG/L AS CU)	05/19/78-05/19/78	0	1	
HOVE0054	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	09/14/94-09/14/94	0	1	
HOVE0056	No	01040	COPPER, DISSOLVED (UG/L AS CU)	03/27/90-11/14/90	0	3	
HOVE0057	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	09/14/94-09/14/94	0	1	
HOVE0058	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	09/14/94-09/14/94	0	1	
HOVE0059	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	09/14/94-09/14/94	0	1	
HOVE0062	No	01040	COPPER, DISSOLVED (UG/L AS CU)	05/15/78-05/15/78	0	1	
HOVE0007	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	11/09/90-11/09/90	0	1	
HOVE0015	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	11/09/90-11/09/90	0	1	
HOVE0030	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	11/15/90-11/15/90	0	1	
HOVE0044	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	03/06/78-11/14/90	12	7	
HOVE0051	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	11/14/90-11/14/90	0	1	
HOVE0056	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	11/14/90-11/14/90	0	1	
HOVE0003	No	01046	IRON, DISSOLVED (UG/L AS FE)	08/28/77-08/28/77	0	1	
HOVE0004	No	01046	IRON, DISSOLVED (UG/L AS FE)	08/28/77-08/28/77	0	1	
HOVE0009	No	01046	IRON, DISSOLVED (UG/L AS FE)	08/28/77-08/28/77	0	1	
HOVE0010	No	01046	IRON, DISSOLVED (UG/L AS FE)	08/28/77-08/28/77	0	1	
HOVE0013	No	01046	IRON, DISSOLVED (UG/L AS FE)	08/28/77-08/28/77	0	1	
HOVE0016	No	01046	IRON, DISSOLVED (UG/L AS FE)	08/27/77-08/27/77	0	1	
HOVE0017	No	01046	IRON, DISSOLVED (UG/L AS FE)	08/28/77-08/28/77	0	1	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 03/10/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HOVE0018	No	01046	IRON, DISSOLVED (UG/L AS FE)	08/28/77-08/28/77	0	1	
HOVE0019	No	01046	IRON, DISSOLVED (UG/L AS FE)	08/27/77-08/27/77	0	1	
HOVE0021	No	01046	IRON, DISSOLVED (UG/L AS FE)	08/28/77-08/28/77	0	1	
HOVE0022	No	01046	IRON, DISSOLVED (UG/L AS FE)	09/01/77-09/01/77	0	1	
HOVE0024	No	01046	IRON, DISSOLVED (UG/L AS FE)	08/27/77-08/27/77	0	1	
HOVE0027	No	01046	IRON, DISSOLVED (UG/L AS FE)	08/28/77-08/28/77	0	1	
HOVE0029	No	01046	IRON, DISSOLVED (UG/L AS FE)	08/26/77-08/26/77	0	1	
HOVE0032	No	01046	IRON, DISSOLVED (UG/L AS FE)	08/28/77-08/28/77	0	1	
HOVE0035	No	01046	IRON, DISSOLVED (UG/L AS FE)	08/28/77-08/28/77	0	1	
HOVE0036	No	01046	IRON, DISSOLVED (UG/L AS FE)	09/01/77-09/01/77	0	1	
HOVE0041	No	01046	IRON, DISSOLVED (UG/L AS FE)	08/31/77-08/31/77	0	1	
HOVE0042	No	01046	IRON, DISSOLVED (UG/L AS FE)	09/01/77-09/01/77	0	1	
HOVE0043	No	01046	IRON, DISSOLVED (UG/L AS FE)	09/04/79-09/04/79	0	1	
HOVE0044	No	01046	IRON, DISSOLVED (UG/L AS FE)	12/27/77-07/27/81	3	23	
HOVE0047	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	09/14/94-09/14/94	0	1	
HOVE0048	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	09/14/94-09/14/94	0	1	
HOVE0049	No	01046	IRON, DISSOLVED (UG/L AS FE)	05/19/78-05/19/78	0	1	
HOVE0052	No	01046	IRON, DISSOLVED (UG/L AS FE)	05/19/78-05/19/78	0	1	
HOVE0053	No	01046	IRON, DISSOLVED (UG/L AS FE)	05/19/78-05/19/78	0	1	
HOVE0054	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	09/14/94-09/14/94	0	1	
HOVE0057	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	09/14/94-09/14/94	0	1	
HOVE0058	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	09/14/94-09/14/94	0	1	
HOVE0059	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	09/14/94-09/14/94	0	1	
HOVE0062	No	01046	IRON, DISSOLVED (UG/L AS FE)	05/15/78-05/15/78	0	1	
HOVE0003	No	01049	LEAD, DISSOLVED (UG/L AS PB)	08/28/77-08/28/77	0	1	
HOVE0004	No	01049	LEAD, DISSOLVED (UG/L AS PB)	08/28/77-08/28/77	0	1	
HOVE0007	No	01049	LEAD, DISSOLVED (UG/L AS PB)	03/28/90-11/09/90	0	3	
HOVE0009	No	01049	LEAD, DISSOLVED (UG/L AS PB)	08/28/77-08/28/77	0	1	
HOVE0010	No	01049	LEAD, DISSOLVED (UG/L AS PB)	08/28/77-08/28/77	0	1	
HOVE0013	No	01049	LEAD, DISSOLVED (UG/L AS PB)	08/28/77-08/28/77	0	1	
HOVE0015	No	01049	LEAD, DISSOLVED (UG/L AS PB)	04/11/90-11/09/90	0	3	
HOVE0016	No	01049	LEAD, DISSOLVED (UG/L AS PB)	08/27/77-08/27/77	0	1	
HOVE0017	No	01049	LEAD, DISSOLVED (UG/L AS PB)	08/28/77-08/28/77	0	1	
HOVE0018	No	01049	LEAD, DISSOLVED (UG/L AS PB)	08/28/77-08/28/77	0	1	
HOVE0019	No	01049	LEAD, DISSOLVED (UG/L AS PB)	08/27/77-08/27/77	0	1	
HOVE0021	No	01049	LEAD, DISSOLVED (UG/L AS PB)	08/28/77-08/28/77	0	1	
HOVE0022	No	01049	LEAD, DISSOLVED (UG/L AS PB)	09/01/77-09/01/77	0	1	
HOVE0024	No	01049	LEAD, DISSOLVED (UG/L AS PB)	08/27/77-08/27/77	0	1	
HOVE0027	No	01049	LEAD, DISSOLVED (UG/L AS PB)	08/28/77-08/28/77	0	1	
HOVE0029	No	01049	LEAD, DISSOLVED (UG/L AS PB)	08/26/77-08/26/77	0	1	
HOVE0030	No	01049	LEAD, DISSOLVED (UG/L AS PB)	04/11/90-11/15/90	0	2	
HOVE0032	No	01049	LEAD, DISSOLVED (UG/L AS PB)	08/28/77-08/28/77	0	1	
HOVE0035	No	01049	LEAD, DISSOLVED (UG/L AS PB)	08/28/77-08/28/77	0	1	
HOVE0036	No	01049	LEAD, DISSOLVED (UG/L AS PB)	09/01/77-09/01/77	0	1	
HOVE0041	No	01049	LEAD, DISSOLVED (UG/L AS PB)	08/31/77-08/31/77	0	1	
HOVE0042	No	01049	LEAD, DISSOLVED (UG/L AS PB)	09/01/77-09/01/77	0	1	
HOVE0044	No	01049	LEAD, DISSOLVED (UG/L AS PB)	03/06/78-11/14/90	12	11	
HOVE0047	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	09/14/94-09/14/94	0	1	
HOVE0048	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	09/14/94-09/14/94	0	1	
HOVE0049	No	01049	LEAD, DISSOLVED (UG/L AS PB)	05/19/78-05/19/78	0	1	
HOVE0051	No	01049	LEAD, DISSOLVED (UG/L AS PB)	03/27/90-11/14/90	0	3	
HOVE0052	No	01049	LEAD, DISSOLVED (UG/L AS PB)	05/19/78-05/19/78	0	1	
HOVE0053	No	01049	LEAD, DISSOLVED (UG/L AS PB)	05/19/78-05/19/78	0	1	
HOVE0056	No	01049	LEAD, DISSOLVED (UG/L AS PB)	03/27/90-11/14/90	0	3	
HOVE0057	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	09/14/94-09/14/94	0	1	
HOVE0058	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	09/14/94-09/14/94	0	1	
HOVE0059	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	09/14/94-09/14/94	0	1	
HOVE0062	No	01049	LEAD, DISSOLVED (UG/L AS PB)	05/15/78-05/15/78	0	1	
HOVE0044	No	01050	LEAD, SUSPENDED (UG/L AS PB)	05/22/79-05/22/79	0	1	
HOVE0044	No	01051	LEAD, TOTAL (UG/L AS PB)	05/22/79-05/26/81	2	4	
HOVE0007	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	11/09/90-11/09/90	0	1	
HOVE0015	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	11/09/90-11/09/90	0	1	
HOVE0030	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	11/15/90-11/15/90	0	1	
HOVE0044	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	03/06/78-11/14/90	12	7	
HOVE0051	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	11/14/90-11/14/90	0	1	
HOVE0056	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	11/14/90-11/14/90	0	1	
HOVE0007	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	11/09/90-11/09/90	0	1	
HOVE0015	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	11/09/90-11/09/90	0	1	
HOVE0030	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	11/15/90-11/15/90	0	1	
HOVE0044	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	03/06/78-11/14/90	12	7	
HOVE0051	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	11/14/90-11/14/90	0	1	
HOVE0056	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	11/14/90-11/14/90	0	1	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 03/10/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HOVE0044	No	01054	MANGANESE, SUSPENDED (UG/L AS MN)	05/22/79-05/26/81	2	4	
HOVE0044	No	01055	MANGANESE, TOTAL (UG/L AS MN)	05/22/79-05/26/81	2	4	
HOVE0003	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/28/77-08/28/77	0	1	
HOVE0004	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/28/77-08/28/77	0	1	
HOVE0009	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/28/77-08/28/77	0	1	
HOVE0010	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/28/77-08/28/77	0	1	
HOVE0013	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/28/77-08/28/77	0	1	
HOVE0016	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/27/77-08/27/77	0	1	
HOVE0017	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/28/77-08/28/77	0	1	
HOVE0018	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/28/77-08/28/77	0	1	
HOVE0019	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/27/77-08/27/77	0	1	
HOVE0021	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/28/77-08/28/77	0	1	
HOVE0022	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/01/77-09/01/77	0	1	
HOVE0024	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/27/77-08/27/77	0	1	
HOVE0027	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/28/77-08/28/77	0	1	
HOVE0029	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/26/77-08/26/77	0	1	
HOVE0032	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/28/77-08/28/77	0	1	
HOVE0035	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/28/77-08/28/77	0	1	
HOVE0036	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/01/77-09/01/77	0	1	
HOVE0041	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/31/77-08/31/77	0	1	
HOVE0042	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/01/77-09/01/77	0	1	
HOVE0043	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/04/79-09/04/79	0	1	
HOVE0044	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/06/78-05/26/81	3	7	
HOVE0047	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/14/94-09/14/94	0	1	
HOVE0048	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/14/94-09/14/94	0	1	
HOVE0049	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/19/78-05/19/78	0	1	
HOVE0052	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/19/78-05/19/78	0	1	
HOVE0053	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/19/78-05/19/78	0	1	
HOVE0054	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/14/94-09/14/94	0	1	
HOVE0057	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/14/94-09/14/94	0	1	
HOVE0058	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/14/94-09/14/94	0	1	
HOVE0059	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/14/94-09/14/94	0	1	
HOVE0062	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/15/78-05/15/78	0	1	
HOVE0003	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	08/28/77-08/28/77	0	1	
HOVE0004	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	08/28/77-08/28/77	0	1	
HOVE0007	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	03/28/90-11/09/90	0	3	
HOVE0009	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	08/28/77-08/28/77	0	1	
HOVE0010	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	08/28/77-08/28/77	0	1	
HOVE0013	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	08/28/77-08/28/77	0	1	
HOVE0015	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	04/11/90-11/09/90	0	3	
HOVE0016	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	08/27/77-08/27/77	0	1	
HOVE0017	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	08/28/77-08/28/77	0	1	
HOVE0018	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	08/28/77-08/28/77	0	1	
HOVE0019	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	08/27/77-08/27/77	0	1	
HOVE0021	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	08/28/77-08/28/77	0	1	
HOVE0022	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	09/01/77-09/01/77	0	1	
HOVE0024	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	08/27/77-08/27/77	0	1	
HOVE0027	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	08/28/77-08/28/77	0	1	
HOVE0029	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	08/26/77-08/26/77	0	1	
HOVE0030	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	04/11/90-11/15/90	0	2	
HOVE0032	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	08/28/77-08/28/77	0	1	
HOVE0035	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	08/28/77-08/28/77	0	1	
HOVE0036	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	09/01/77-09/01/77	0	1	
HOVE0041	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	08/31/77-08/31/77	0	1	
HOVE0042	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	09/01/77-09/01/77	0	1	
HOVE0044	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	03/06/78-11/14/90	12	11	
HOVE0047	Yes	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	09/14/94-09/14/94	0	1	
HOVE0048	Yes	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	09/14/94-09/14/94	0	1	
HOVE0049	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	05/19/78-05/19/78	0	1	
HOVE0051	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	03/27/90-11/14/90	0	3	
HOVE0052	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	05/19/78-05/19/78	0	1	
HOVE0053	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	05/19/78-05/19/78	0	1	
HOVE0054	Yes	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	09/14/94-09/14/94	0	1	
HOVE0056	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	03/27/90-11/14/90	0	3	
HOVE0057	Yes	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	09/14/94-09/14/94	0	1	
HOVE0058	Yes	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	09/14/94-09/14/94	0	1	
HOVE0059	Yes	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	09/14/94-09/14/94	0	1	
HOVE0062	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	05/15/78-05/15/78	0	1	
HOVE0044	No	01061	MOLYBDENUM, SUSPENDED (UG/L AS MO)	05/22/79-05/22/79	0	1	
HOVE0044	No	01062	MOLYBDENUM, TOTAL (UG/L AS MO)	05/22/79-05/26/81	2	4	
HOVE0007	No	01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	11/09/90-11/09/90	0	1	
HOVE0015	No	01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	11/09/90-11/09/90	0	1	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 03/10/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HOVE0030	No	01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	11/15/90-11/15/90	0	1	
HOVE0044	No	01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	03/06/78-11/14/90	12	7	
HOVE0051	No	01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	11/14/90-11/14/90	0	1	
HOVE0056	No	01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	11/14/90-11/14/90	0	1	
HOVE0003	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	08/28/77-08/28/77	0	1	
HOVE0004	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	08/28/77-08/28/77	0	1	
HOVE0009	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	08/28/77-08/28/77	0	1	
HOVE0010	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	08/28/77-08/28/77	0	1	
HOVE0013	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	08/28/77-08/28/77	0	1	
HOVE0016	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	08/27/77-08/27/77	0	1	
HOVE0017	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	08/28/77-08/28/77	0	1	
HOVE0018	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	08/28/77-08/28/77	0	1	
HOVE0019	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	08/27/77-08/27/77	0	1	
HOVE0021	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	08/28/77-08/28/77	0	1	
HOVE0022	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	09/01/77-09/01/77	0	1	
HOVE0024	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	08/27/77-08/27/77	0	1	
HOVE0027	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	08/28/77-08/28/77	0	1	
HOVE0029	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	08/26/77-08/26/77	0	1	
HOVE0032	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	08/28/77-08/28/77	0	1	
HOVE0035	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	08/28/77-08/28/77	0	1	
HOVE0036	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	09/01/77-09/01/77	0	1	
HOVE0041	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	08/31/77-08/31/77	0	1	
HOVE0042	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	09/01/77-09/01/77	0	1	
HOVE0044	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	03/06/78-05/26/81	3	7	
HOVE0047	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	09/14/94-09/14/94	0	1	
HOVE0048	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	09/14/94-09/14/94	0	1	
HOVE0049	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	05/19/78-05/19/78	0	1	
HOVE0052	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	05/19/78-05/19/78	0	1	
HOVE0053	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	05/19/78-05/19/78	0	1	
HOVE0054	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	09/14/94-09/14/94	0	1	
HOVE0057	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	09/14/94-09/14/94	0	1	
HOVE0058	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	09/14/94-09/14/94	0	1	
HOVE0059	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	09/14/94-09/14/94	0	1	
HOVE0062	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	05/15/78-05/15/78	0	1	
HOVE0044	No	01066	NICKEL, SUSPENDED (UG/L AS NI)	05/22/79-05/26/81	2	4	
HOVE0044	No	01067	NICKEL, TOTAL (UG/L AS NI)	05/22/79-05/26/81	2	4	
HOVE0007	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	11/09/90-11/09/90	0	1	
HOVE0015	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	11/09/90-11/09/90	0	1	
HOVE0030	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	11/15/90-11/15/90	0	1	
HOVE0044	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	03/06/78-11/14/90	12	7	
HOVE0051	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	11/14/90-11/14/90	0	1	
HOVE0056	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	11/14/90-11/14/90	0	1	
HOVE0040	No	01074	NICKEL,TOTAL RECOVERABLE IN WATER AS NI UG/L	06/07/78-11/05/81	3	7	
HOVE0007	No	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	11/09/90-11/09/90	0	1	
HOVE0015	No	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	11/09/90-11/09/90	0	1	
HOVE0030	No	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	11/15/90-11/15/90	0	1	
HOVE0044	No	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	11/14/90-11/14/90	0	1	
HOVE0051	No	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	11/14/90-11/14/90	0	1	
HOVE0056	No	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	11/14/90-11/14/90	0	1	
HOVE0040	No	01079	SILVER,TOTAL RECOVERABLE IN WATER AS AG UG/L	11/19/68-11/05/81	12	24	
HOVE0044	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	04/14/80-05/26/81	1	4	
HOVE0047	Yes	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	09/14/94-09/14/94	0	1	
HOVE0048	Yes	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	09/14/94-09/14/94	0	1	
HOVE0054	Yes	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	09/14/94-09/14/94	0	1	
HOVE0057	Yes	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	09/14/94-09/14/94	0	1	
HOVE0058	Yes	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	09/14/94-09/14/94	0	1	
HOVE0059	Yes	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	09/14/94-09/14/94	0	1	
HOVE0007	No	01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	11/09/90-11/09/90	0	1	
HOVE0015	No	01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	11/09/90-11/09/90	0	1	
HOVE0030	No	01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	11/15/90-11/15/90	0	1	
HOVE0044	No	01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	04/25/79-11/14/90	11	2	
HOVE0051	No	01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	11/14/90-11/14/90	0	1	
HOVE0056	No	01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	11/14/90-11/14/90	0	1	
HOVE0007	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	03/28/90-11/09/90	0	3	
HOVE0015	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	04/11/90-11/09/90	0	3	
HOVE0030	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	04/11/90-11/15/90	0	2	
HOVE0044	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	03/06/78-11/14/90	12	11	
HOVE0047	Yes	01085	VANADIUM, DISSOLVED (UG/L AS V)	09/14/94-09/14/94	0	1	
HOVE0048	Yes	01085	VANADIUM, DISSOLVED (UG/L AS V)	09/14/94-09/14/94	0	1	
HOVE0051	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	03/27/90-11/14/90	0	3	
HOVE0054	Yes	01085	VANADIUM, DISSOLVED (UG/L AS V)	09/14/94-09/14/94	0	1	
HOVE0056	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	03/27/90-11/14/90	0	3	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 03/10/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HOVE0057	Yes	01085	VANADIUM, DISSOLVED (UG/L AS V)	09/14/94-09/14/94	0	1	
HOVE0058	Yes	01085	VANADIUM, DISSOLVED (UG/L AS V)	09/14/94-09/14/94	0	1	
HOVE0059	Yes	01085	VANADIUM, DISSOLVED (UG/L AS V)	09/14/94-09/14/94	0	1	
HOVE0007	No	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	11/09/90-11/09/90	0	1	
HOVE0015	No	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	11/09/90-11/09/90	0	1	
HOVE0030	No	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	11/15/90-11/15/90	0	1	
HOVE0044	No	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	11/14/90-11/14/90	0	1	
HOVE0051	No	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	11/14/90-11/14/90	0	1	
HOVE0056	No	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	11/14/90-11/14/90	0	1	
HOVE0003	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	08/28/77-08/28/77	0	1	
HOVE0004	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	08/28/77-08/28/77	0	1	
HOVE0007	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	03/28/90-11/09/90	0	3	
HOVE0009	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	08/28/77-08/28/77	0	1	
HOVE0010	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	08/28/77-08/28/77	0	1	
HOVE0013	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	08/28/77-08/28/77	0	1	
HOVE0015	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	04/11/90-11/09/90	0	3	
HOVE0016	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	08/27/77-08/27/77	0	1	
HOVE0017	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	08/28/77-08/28/77	0	1	
HOVE0018	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	08/28/77-08/28/77	0	1	
HOVE0019	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	08/27/77-08/27/77	0	1	
HOVE0021	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	08/28/77-08/28/77	0	1	
HOVE0022	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	09/01/77-09/01/77	0	1	
HOVE0024	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	08/27/77-08/27/77	0	1	
HOVE0027	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	08/28/77-08/28/77	0	1	
HOVE0029	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	08/26/77-08/26/77	0	1	
HOVE0030	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	04/11/90-11/15/90	0	2	
HOVE0032	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	08/28/77-08/28/77	0	1	
HOVE0035	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	08/28/77-08/28/77	0	1	
HOVE0036	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	09/01/77-09/01/77	0	1	
HOVE0041	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	08/31/77-08/31/77	0	1	
HOVE0042	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	09/01/77-09/01/77	0	1	
HOVE0044	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	03/06/78-11/14/90	12	11	
HOVE0047	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	09/14/94-09/14/94	0	1	
HOVE0048	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	09/14/94-09/14/94	0	1	
HOVE0049	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	05/19/78-05/19/78	0	1	
HOVE0051	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	03/27/90-11/14/90	0	3	
HOVE0052	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	05/19/78-05/19/78	0	1	
HOVE0053	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	05/19/78-05/19/78	0	1	
HOVE0054	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	09/14/94-09/14/94	0	1	
HOVE0056	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	03/27/90-11/14/90	0	3	
HOVE0057	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	09/14/94-09/14/94	0	1	
HOVE0058	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	09/14/94-09/14/94	0	1	
HOVE0059	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	09/14/94-09/14/94	0	1	
HOVE0062	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	05/15/78-05/15/78	0	1	
HOVE0044	No	01091	ZINC, SUSPENDED (UG/L ZN)	05/22/79-05/26/81	2	3	
HOVE0044	No	01092	ZINC, TOTAL (UG/L AS ZN)	05/22/79-05/26/81	2	4	
HOVE0007	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	11/09/90-11/09/90	0	1	
HOVE0015	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	11/09/90-11/09/90	0	1	
HOVE0030	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	11/15/90-11/15/90	0	1	
HOVE0044	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	03/06/78-11/14/90	12	7	
HOVE0051	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	11/14/90-11/14/90	0	1	
HOVE0056	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	11/14/90-11/14/90	0	1	
HOVE0040	No	01094	ZINC,TOTAL RECOVERABLE IN WATER AS ZN UG/L	03/13/68-04/01/82	14	75	T,S
HOVE0007	No	01103	TIN IN BOTTOM DEPOSITS (MG/KG AS SN DRY WGT)	11/09/90-11/09/90	0	1	
HOVE0015	No	01103	TIN IN BOTTOM DEPOSITS (MG/KG AS SN DRY WGT)	11/09/90-11/09/90	0	1	
HOVE0030	No	01103	TIN IN BOTTOM DEPOSITS (MG/KG AS SN DRY WGT)	11/15/90-11/15/90	0	1	
HOVE0044	No	01103	TIN IN BOTTOM DEPOSITS (MG/KG AS SN DRY WGT)	11/14/90-11/14/90	0	1	
HOVE0051	No	01103	TIN IN BOTTOM DEPOSITS (MG/KG AS SN DRY WGT)	11/14/90-11/14/90	0	1	
HOVE0056	No	01103	TIN IN BOTTOM DEPOSITS (MG/KG AS SN DRY WGT)	11/14/90-11/14/90	0	1	
HOVE0040	No	01104	ALUMINUM,TOTAL RECOVERABLE IN WATER AS AL UG/L	06/07/78-11/05/81	3	7	
HOVE0044	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/06/78-05/26/81	3	6	
HOVE0047	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	09/14/94-09/14/94	0	1	
HOVE0048	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	09/14/94-09/14/94	0	1	
HOVE0054	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	09/14/94-09/14/94	0	1	
HOVE0057	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	09/14/94-09/14/94	0	1	
HOVE0058	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	09/14/94-09/14/94	0	1	
HOVE0059	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	09/14/94-09/14/94	0	1	
HOVE0007	No	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	11/09/90-11/09/90	0	1	
HOVE0015	No	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	11/09/90-11/09/90	0	1	
HOVE0030	No	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	11/15/90-11/15/90	0	1	
HOVE0044	No	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	11/14/90-11/14/90	0	1	
HOVE0051	No	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	11/14/90-11/14/90	0	1	

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Station/Parameter Period of Record Tabulation
From 01/01/01 To 03/10/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HOVE0056	No	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	11/14/90-11/14/90	0	1	
HOVE0040	No	01113	CADMIUM,TOTAL RECOVERABLE IN WATER AS CD UG/L	03/13/68-04/01/82	14	70	T,S
HOVE0040	No	01114	LEAD,TOTAL RECOVERABLE IN WATER AS PB UG/L	03/13/68-04/01/82	14	61	T,S
HOVE0040	No	01118	CHROMIUM TOTAL RECOVERABLE IN WATER AS CR UG/L	06/22/76-11/07/77	1	7	
HOVE0040	No	01119	COPPER,TOTAL RECOVERABLE IN WATER AS CU UG/L	03/13/68-04/01/82	14	60	T,S
HOVE0040	No	01123	MANGANESE,TOTAL RECOVERABLE IN WATER AS MN UG/L	03/13/68-04/01/82	14	76	T,S
HOVE0040	No	01129	MOLYBDENUM,TOTAL RECOVERABLE IN WATER AS MB UG/L	02/24/71-02/15/78	6	22	
HOVE0044	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	03/06/78-05/26/81	3	7	
HOVE0044	No	01131	LITHIUM, SUSPENDED (UG/L AS LI)	05/22/79-05/26/81	2	4	
HOVE0044	No	01132	LITHIUM, TOTAL (UG/L AS LI)	05/22/79-05/26/81	2	4	
HOVE0007	No	01133	LITHIUM IN BOTTOM DEPOSITS (MG/KG AS LI DRY WGT)	11/09/90-11/09/90	0	1	
HOVE0015	No	01133	LITHIUM IN BOTTOM DEPOSITS (MG/KG AS LI DRY WGT)	11/09/90-11/09/90	0	1	
HOVE0030	No	01133	LITHIUM IN BOTTOM DEPOSITS (MG/KG AS LI DRY WGT)	11/15/90-11/15/90	0	1	
HOVE0044	No	01133	LITHIUM IN BOTTOM DEPOSITS (MG/KG AS LI DRY WGT)	11/14/90-11/14/90	0	1	
HOVE0051	No	01133	LITHIUM IN BOTTOM DEPOSITS (MG/KG AS LI DRY WGT)	11/14/90-11/14/90	0	1	
HOVE0056	No	01133	LITHIUM IN BOTTOM DEPOSITS (MG/KG AS LI DRY WGT)	11/14/90-11/14/90	0	1	
HOVE0047	Yes	01140	SILICON, DISSOLVED (UG/L AS SI)	09/14/94-09/14/94	0	1	
HOVE0048	Yes	01140	SILICON, DISSOLVED (UG/L AS SI)	09/14/94-09/14/94	0	1	
HOVE0054	Yes	01140	SILICON, DISSOLVED (UG/L AS SI)	09/14/94-09/14/94	0	1	
HOVE0057	Yes	01140	SILICON, DISSOLVED (UG/L AS SI)	09/14/94-09/14/94	0	1	
HOVE0058	Yes	01140	SILICON, DISSOLVED (UG/L AS SI)	09/14/94-09/14/94	0	1	
HOVE0059	Yes	01140	SILICON, DISSOLVED (UG/L AS SI)	09/14/94-09/14/94	0	1	
HOVE0007	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	03/28/90-11/09/90	0	3	
HOVE0015	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	04/11/90-11/09/90	0	3	
HOVE0025	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	06/14/94-06/14/94	0	1	
HOVE0030	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	04/11/90-07/13/94	4	4	
HOVE0034	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	06/14/94-06/14/94	0	1	
HOVE0044	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	03/06/78-11/14/90	12	11	
HOVE0047	Yes	01145	SELENIUM, DISSOLVED (UG/L AS SE)	09/14/94-09/14/94	0	1	
HOVE0048	Yes	01145	SELENIUM, DISSOLVED (UG/L AS SE)	09/14/94-09/14/94	0	1	
HOVE0051	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	03/27/90-11/14/90	0	3	
HOVE0054	Yes	01145	SELENIUM, DISSOLVED (UG/L AS SE)	09/14/94-09/14/94	0	1	
HOVE0056	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	03/27/90-11/14/90	0	3	
HOVE0057	Yes	01145	SELENIUM, DISSOLVED (UG/L AS SE)	09/14/94-09/14/94	0	1	
HOVE0058	Yes	01145	SELENIUM, DISSOLVED (UG/L AS SE)	09/14/94-09/14/94	0	1	
HOVE0059	Yes	01145	SELENIUM, DISSOLVED (UG/L AS SE)	09/14/94-09/14/94	0	1	
HOVE0044	No	01146	SELENIUM, SUSPENDED (UG/L AS SE)	05/22/79-05/26/81	2	4	
HOVE0040	No	01147	SELENIUM, TOTAL (UG/L AS SE)	01/23/68-04/01/82	14	60	T,S
HOVE0044	No	01147	SELENIUM, TOTAL (UG/L AS SE)	05/22/79-05/26/81	2	4	
HOVE0007	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	11/09/90-11/09/90	0	1	
HOVE0015	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	11/09/90-11/09/90	0	1	
HOVE0025	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	06/14/94-06/14/94	0	1	
HOVE0030	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	11/15/90-11/15/90	0	1	
HOVE0034	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	06/14/94-06/14/94	0	1	
HOVE0044	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	03/06/78-11/14/90	12	7	
HOVE0051	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	11/14/90-11/14/90	0	1	
HOVE0056	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	11/14/90-11/14/90	0	1	
HOVE0003	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	08/28/77-08/28/77	0	1	
HOVE0004	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	08/28/77-08/28/77	0	1	
HOVE0009	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	08/28/77-08/28/77	0	1	
HOVE0010	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	08/28/77-08/28/77	0	1	
HOVE0013	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	08/28/77-08/28/77	0	1	
HOVE0016	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	08/27/77-08/27/77	0	1	
HOVE0017	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	08/28/77-08/28/77	0	1	
HOVE0018	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	08/28/77-08/28/77	0	1	
HOVE0019	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	08/27/77-08/27/77	0	1	
HOVE0021	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	08/28/77-08/28/77	0	1	
HOVE0022	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	09/01/77-09/01/77	0	1	
HOVE0024	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	08/27/77-08/27/77	0	1	
HOVE0027	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	08/28/77-08/28/77	0	1	
HOVE0029	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	08/26/77-08/26/77	0	1	
HOVE0032	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	08/28/77-08/28/77	0	1	
HOVE0035	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	08/28/77-08/28/77	0	1	
HOVE0036	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	09/01/77-09/01/77	0	1	
HOVE0041	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	08/31/77-08/31/77	0	1	
HOVE0042	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	09/01/77-09/01/77	0	1	
HOVE0047	Yes	01150	TITANIUM, DISSOLVED (UG/L AS TI)	09/14/94-09/14/94	0	1	
HOVE0048	Yes	01150	TITANIUM, DISSOLVED (UG/L AS TI)	09/14/94-09/14/94	0	1	
HOVE0049	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	05/19/78-05/19/78	0	1	
HOVE0052	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	05/19/78-05/19/78	0	1	
HOVE0053	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	05/19/78-05/19/78	0	1	
HOVE0054	Yes	01150	TITANIUM, DISSOLVED (UG/L AS TI)	09/14/94-09/14/94	0	1	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 03/10/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HOVE0057	Yes	01150	TITANIUM, DISSOLVED (UG/L AS TI)	09/14/94-09/14/94	0	1	
HOVE0058	Yes	01150	TITANIUM, DISSOLVED (UG/L AS TI)	09/14/94-09/14/94	0	1	
HOVE0059	Yes	01150	TITANIUM, DISSOLVED (UG/L AS TI)	09/14/94-09/14/94	0	1	
HOVE0062	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	05/15/78-05/15/78	0	1	
HOVE0007	No	01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	11/09/90-11/09/90	0	1	
HOVE0015	No	01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	11/09/90-11/09/90	0	1	
HOVE0030	No	01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	11/15/90-11/15/90	0	1	
HOVE0044	No	01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	11/14/90-11/14/90	0	1	
HOVE0051	No	01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	11/14/90-11/14/90	0	1	
HOVE0056	No	01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	11/14/90-11/14/90	0	1	
HOVE0007	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	11/09/90-11/09/90	0	1	
HOVE0015	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	11/09/90-11/09/90	0	1	
HOVE0030	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	11/15/90-11/15/90	0	1	
HOVE0044	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	11/14/90-11/14/90	0	1	
HOVE0051	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	11/14/90-11/14/90	0	1	
HOVE0056	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	11/14/90-11/14/90	0	1	
HOVE0040	No	01503	ALPHA, DISSOLVED	09/18/68-01/11/77	8	37	
HOVE0040	No	01504	ALPHA, DISSOLVED, COUNTING ERROR	09/18/68-01/11/77	8	37	
HOVE0044	No	01515	ALPHA, DISSOLVED GROSS, AS URANIUM-NATURAL, PC/L	05/22/79-05/26/81	2	4	
HOVE0044	No	01516	ALPHA, SUSPEND GROSS, AS URANIUM NATURAL, PC/L	05/22/79-05/26/81	2	4	
HOVE0040	No	03501	BETA, TOTAL	04/06/78-04/06/78	0	1	
HOVE0040	No	03503	BETA, DISSOLVED	09/06/69-07/12/77	7	30	
HOVE0040	No	03504	BETA, DISSOLVED, COUNTING ERROR	09/06/69-07/12/77	7	30	
HOVE0044	No	03515	BETA, DISSOLVED GROSS, AS CS-137, PC/L	05/22/79-05/26/81	2	4	
HOVE0044	No	03516	BETA, SUSPENDED GROSS, AS CS-137, PC/L	05/22/79-05/26/81	2	4	
HOVE0040	No	09503	RADIUM 226, DISSOLVED	03/19/69-11/07/77	8	23	
HOVE0040	No	09504	RADIUM 226, DISSOLVED, COUNTING ERROR	03/19/69-11/07/77	8	23	
HOVE0040	No	09505	RADIUM 226, SUSPENDED	02/15/78-04/06/78	0	2	
HOVE0003	No	22703	URANIUM, NATURAL, DISSOLVED	08/28/77-08/28/77	0	1	
HOVE0004	No	22703	URANIUM, NATURAL, DISSOLVED	08/28/77-08/28/77	0	1	
HOVE0009	No	22703	URANIUM, NATURAL, DISSOLVED	08/28/77-08/28/77	0	1	
HOVE0010	No	22703	URANIUM, NATURAL, DISSOLVED	08/28/77-08/28/77	0	1	
HOVE0013	No	22703	URANIUM, NATURAL, DISSOLVED	08/28/77-08/28/77	0	1	
HOVE0016	No	22703	URANIUM, NATURAL, DISSOLVED	08/27/77-08/27/77	0	1	
HOVE0017	No	22703	URANIUM, NATURAL, DISSOLVED	08/28/77-08/28/77	0	1	
HOVE0018	No	22703	URANIUM, NATURAL, DISSOLVED	08/28/77-08/28/77	0	1	
HOVE0019	No	22703	URANIUM, NATURAL, DISSOLVED	08/27/77-08/27/77	0	1	
HOVE0021	No	22703	URANIUM, NATURAL, DISSOLVED	08/28/77-08/28/77	0	1	
HOVE0022	No	22703	URANIUM, NATURAL, DISSOLVED	09/01/77-09/01/77	0	1	
HOVE0024	No	22703	URANIUM, NATURAL, DISSOLVED	08/27/77-08/27/77	0	1	
HOVE0027	No	22703	URANIUM, NATURAL, DISSOLVED	08/28/77-08/28/77	0	1	
HOVE0029	No	22703	URANIUM, NATURAL, DISSOLVED	08/26/77-08/26/77	0	1	
HOVE0032	No	22703	URANIUM, NATURAL, DISSOLVED	08/28/77-08/28/77	0	1	
HOVE0035	No	22703	URANIUM, NATURAL, DISSOLVED	08/28/77-08/28/77	0	1	
HOVE0036	No	22703	URANIUM, NATURAL, DISSOLVED	09/01/77-09/01/77	0	1	
HOVE0040	No	22703	URANIUM, NATURAL, DISSOLVED	05/10/79-11/05/81	2	3	
HOVE0041	No	22703	URANIUM, NATURAL, DISSOLVED	08/31/77-08/31/77	0	1	
HOVE0042	No	22703	URANIUM, NATURAL, DISSOLVED	09/01/77-09/01/77	0	1	
HOVE0049	No	22703	URANIUM, NATURAL, DISSOLVED	05/19/78-05/19/78	0	1	
HOVE0052	No	22703	URANIUM, NATURAL, DISSOLVED	05/19/78-05/19/78	0	1	
HOVE0053	No	22703	URANIUM, NATURAL, DISSOLVED	05/19/78-05/19/78	0	1	
HOVE0062	No	22703	URANIUM, NATURAL, DISSOLVED	05/15/78-05/15/78	0	1	
HOVE0007	No	22707	URANIUM, NATURAL IN SEDIMENT (UG/G OF DRY SOLIDS)	11/09/90-11/09/90	0	1	
HOVE0015	No	22707	URANIUM, NATURAL IN SEDIMENT (UG/G OF DRY SOLIDS)	11/09/90-11/09/90	0	1	
HOVE0030	No	22707	URANIUM, NATURAL IN SEDIMENT (UG/G OF DRY SOLIDS)	11/15/90-11/15/90	0	1	
HOVE0044	No	22707	URANIUM, NATURAL IN SEDIMENT (UG/G OF DRY SOLIDS)	11/14/90-11/14/90	0	1	
HOVE0051	No	22707	URANIUM, NATURAL IN SEDIMENT (UG/G OF DRY SOLIDS)	11/14/90-11/14/90	0	1	
HOVE0056	No	22707	URANIUM, NATURAL IN SEDIMENT (UG/G OF DRY SOLIDS)	11/14/90-11/14/90	0	1	
HOVE0007	No	28011	URANIUM,NATURAL,TOTAL UG/L AS U	03/28/90-11/09/90	0	3	
HOVE0015	No	28011	URANIUM,NATURAL,TOTAL UG/L AS U	04/11/90-11/09/90	0	3	
HOVE0030	No	28011	URANIUM,NATURAL,TOTAL UG/L AS U	04/11/90-11/15/90	0	2	
HOVE0044	No	28011	URANIUM,NATURAL,TOTAL UG/L AS U	03/27/90-11/14/90	0	3	
HOVE0051	No	28011	URANIUM,NATURAL,TOTAL UG/L AS U	03/27/90-11/14/90	0	3	
HOVE0056	No	28011	URANIUM,NATURAL,TOTAL UG/L AS U	03/27/90-11/14/90	0	3	
HOVE0040	No	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	01/23/68-06/07/78	10	57	T
HOVE0040	No	31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	01/23/68-04/01/82	14	77	T,S
HOVE0044	No	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	12/27/77-07/27/81	3	24	
HOVE0044	No	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	12/27/77-07/27/81	3	24	
HOVE0040	No	38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	09/06/69-07/12/77	7	31	
HOVE0007	No	39011	DISYSTON, FLAME PHOTOMETRIC,WATER SAMPLE (UG/L)	07/18/90-07/18/90	0	1	
HOVE0015	No	39011	DISYSTON, FLAME PHOTOMETRIC,WATER SAMPLE (UG/L)	07/19/90-07/19/90	0	1	
HOVE0051	No	39011	DISYSTON, FLAME PHOTOMETRIC,WATER SAMPLE (UG/L)	07/16/90-07/16/90	0	1	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 03/10/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HOVE0056	No	39011	DISYSTON, FLAME PHOTOMETRIC,WATER SAMPLE (UG/L)	07/16/90-07/16/90	0	1	
HOVE0007	No	39023	PHORATE, FLAME IONIZATION, WATER SAMPLE (UG/L)	07/18/90-07/18/90	0	1	
HOVE0015	No	39023	PHORATE, FLAME IONIZATION, WATER SAMPLE (UG/L)	07/19/90-07/19/90	0	1	
HOVE0051	No	39023	PHORATE, FLAME IONIZATION, WATER SAMPLE (UG/L)	07/16/90-07/16/90	0	1	
HOVE0056	No	39023	PHORATE, FLAME IONIZATION, WATER SAMPLE (UG/L)	07/16/90-07/16/90	0	1	
HOVE0007	No	39040	S,S,S-TRIBUTYL PHOSPHOROTRITHIOATE WTR-FPD UG/L	07/18/90-07/18/90	0	1	
HOVE0015	No	39040	S,S,S-TRIBUTYL PHOSPHOROTRITHIOATE WTR-FPD UG/L	07/19/90-07/19/90	0	1	
HOVE0051	No	39040	S,S,S-TRIBUTYL PHOSPHOROTRITHIOATE WTR-FPD UG/L	07/16/90-07/16/90	0	1	
HOVE0056	No	39040	S,S,S-TRIBUTYL PHOSPHOROTRITHIOATE WTR-FPD UG/L	07/16/90-07/16/90	0	1	
HOVE0007	No	39251	PCNS IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	11/09/90-11/09/90	0	1	
HOVE0015	No	39251	PCNS IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	11/09/90-11/09/90	0	1	
HOVE0030	No	39251	PCNS IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	11/15/90-11/15/90	0	1	
HOVE0044	No	39251	PCNS IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	11/14/90-11/14/90	0	1	
HOVE0051	No	39251	PCNS IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	11/14/90-11/14/90	0	1	
HOVE0056	No	39251	PCNS IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	11/14/90-11/14/90	0	1	
HOVE0007	No	39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/09/90-11/09/90	0	1	
HOVE0015	No	39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/09/90-11/09/90	0	1	
HOVE0030	No	39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/15/90-11/15/90	0	1	
HOVE0044	No	39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/14/90-11/14/90	0	1	
HOVE0051	No	39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/14/90-11/14/90	0	1	
HOVE0056	No	39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/14/90-11/14/90	0	1	
HOVE0007	No	39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	11/09/90-11/09/90	0	1	
HOVE0015	No	39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	11/09/90-11/09/90	0	1	
HOVE0030	No	39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	11/15/90-11/15/90	0	1	
HOVE0044	No	39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	11/14/90-11/14/90	0	1	
HOVE0051	No	39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	11/14/90-11/14/90	0	1	
HOVE0056	No	39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	11/14/90-11/14/90	0	1	
HOVE0007	No	39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	11/09/90-11/09/90	0	1	
HOVE0015	No	39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	11/09/90-11/09/90	0	1	
HOVE0030	No	39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	11/15/90-11/15/90	0	1	
HOVE0044	No	39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	11/14/90-11/14/90	0	1	
HOVE0051	No	39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	11/14/90-11/14/90	0	1	
HOVE0056	No	39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	11/14/90-11/14/90	0	1	
HOVE0007	No	39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/09/90-11/09/90	0	1	
HOVE0015	No	39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/09/90-11/09/90	0	1	
HOVE0030	No	39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/15/90-11/15/90	0	1	
HOVE0044	No	39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/14/90-11/14/90	0	1	
HOVE0051	No	39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/14/90-11/14/90	0	1	
HOVE0056	No	39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/14/90-11/14/90	0	1	
HOVE0007	No	39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/09/90-11/09/90	0	1	
HOVE0015	No	39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/09/90-11/09/90	0	1	
HOVE0030	No	39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/15/90-11/15/90	0	1	
HOVE0044	No	39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/14/90-11/14/90	0	1	
HOVE0051	No	39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/14/90-11/14/90	0	1	
HOVE0056	No	39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/14/90-11/14/90	0	1	
HOVE0007	No	39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/09/90-11/09/90	0	1	
HOVE0015	No	39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/09/90-11/09/90	0	1	
HOVE0030	No	39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/15/90-11/15/90	0	1	
HOVE0044	No	39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/14/90-11/14/90	0	1	
HOVE0051	No	39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/14/90-11/14/90	0	1	
HOVE0056	No	39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/14/90-11/14/90	0	1	
HOVE0007	No	39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	11/09/90-11/09/90	0	1	
HOVE0015	No	39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	11/09/90-11/09/90	0	1	
HOVE0030	No	39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	11/15/90-11/15/90	0	1	
HOVE0044	No	39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	11/14/90-11/14/90	0	1	
HOVE0051	No	39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	11/14/90-11/14/90	0	1	
HOVE0056	No	39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	11/14/90-11/14/90	0	1	
HOVE0007	No	39389	ENDOSULFAN IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/09/90-11/09/90	0	1	
HOVE0015	No	39389	ENDOSULFAN IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/09/90-11/09/90	0	1	
HOVE0030	No	39389	ENDOSULFAN IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/15/90-11/15/90	0	1	
HOVE0044	No	39389	ENDOSULFAN IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/14/90-11/14/90	0	1	
HOVE0051	No	39389	ENDOSULFAN IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/14/90-11/14/90	0	1	
HOVE0056	No	39389	ENDOSULFAN IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/14/90-11/14/90	0	1	
HOVE0007	No	39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/09/90-11/09/90	0	1	
HOVE0015	No	39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/09/90-11/09/90	0	1	
HOVE0030	No	39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/15/90-11/15/90	0	1	
HOVE0044	No	39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/14/90-11/14/90	0	1	
HOVE0051	No	39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/14/90-11/14/90	0	1	
HOVE0056	No	39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/14/90-11/14/90	0	1	
HOVE0007	No	39398	ETHION IN WHOLE WATER SAMPLE (UG/L)	07/18/90-07/18/90	0	1	
HOVE0015	No	39398	ETHION IN WHOLE WATER SAMPLE (UG/L)	07/19/90-07/19/90	0	1	
HOVE0051	No	39398	ETHION IN WHOLE WATER SAMPLE (UG/L)	07/16/90-07/16/90	0	1	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 03/10/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HOVE0056	No	39398	ETHION IN WHOLE WATER SAMPLE (UG/L)	07/16/90-07/16/90	0	1	
HOVE0007	No	39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	11/09/90-11/09/90	0	1	
HOVE0015	No	39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	11/09/90-11/09/90	0	1	
HOVE0030	No	39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	11/15/90-11/15/90	0	1	
HOVE0044	No	39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	11/14/90-11/14/90	0	1	
HOVE0051	No	39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	11/14/90-11/14/90	0	1	
HOVE0056	No	39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	11/14/90-11/14/90	0	1	
HOVE0007	No	39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	11/09/90-11/09/90	0	1	
HOVE0015	No	39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	11/09/90-11/09/90	0	1	
HOVE0030	No	39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	11/15/90-11/15/90	0	1	
HOVE0044	No	39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	11/14/90-11/14/90	0	1	
HOVE0051	No	39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	11/14/90-11/14/90	0	1	
HOVE0056	No	39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	11/14/90-11/14/90	0	1	
HOVE0007	No	39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	11/09/90-11/09/90	0	1	
HOVE0015	No	39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	11/09/90-11/09/90	0	1	
HOVE0030	No	39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	11/15/90-11/15/90	0	1	
HOVE0044	No	39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	11/14/90-11/14/90	0	1	
HOVE0051	No	39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	11/14/90-11/14/90	0	1	
HOVE0056	No	39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	11/14/90-11/14/90	0	1	
HOVE0007	No	39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	11/09/90-11/09/90	0	1	
HOVE0015	No	39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	11/09/90-11/09/90	0	1	
HOVE0030	No	39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	11/15/90-11/15/90	0	1	
HOVE0044	No	39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	11/14/90-11/14/90	0	1	
HOVE0051	No	39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	11/14/90-11/14/90	0	1	
HOVE0056	No	39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	11/14/90-11/14/90	0	1	
HOVE0007	No	39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/09/90-11/09/90	0	1	
HOVE0015	No	39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/09/90-11/09/90	0	1	
HOVE0030	No	39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/15/90-11/15/90	0	1	
HOVE0044	No	39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/14/90-11/14/90	0	1	
HOVE0051	No	39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/14/90-11/14/90	0	1	
HOVE0056	No	39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/14/90-11/14/90	0	1	
HOVE0007	No	39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	07/18/90-07/18/90	0	1	
HOVE0015	No	39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	07/19/90-07/19/90	0	1	
HOVE0051	No	39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	07/16/90-07/16/90	0	1	
HOVE0056	No	39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	07/16/90-07/16/90	0	1	
HOVE0007	No	39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	07/18/90-07/18/90	0	1	
HOVE0015	No	39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	07/19/90-07/19/90	0	1	
HOVE0051	No	39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	07/16/90-07/16/90	0	1	
HOVE0056	No	39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	07/16/90-07/16/90	0	1	
HOVE0007	No	39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	07/18/90-07/18/90	0	1	
HOVE0015	No	39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	07/19/90-07/19/90	0	1	
HOVE0051	No	39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	07/16/90-07/16/90	0	1	
HOVE0056	No	39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	07/16/90-07/16/90	0	1	
HOVE0007	No	39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	07/18/90-07/18/90	0	1	
HOVE0015	No	39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	07/19/90-07/19/90	0	1	
HOVE0051	No	39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	07/16/90-07/16/90	0	1	
HOVE0056	No	39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	07/16/90-07/16/90	0	1	
HOVE0007	No	39720	PICLORAM IN WHOLE WATER SAMPLE (UG/L)	07/18/90-07/18/90	0	1	
HOVE0015	No	39720	PICLORAM IN WHOLE WATER SAMPLE (UG/L)	07/19/90-07/19/90	0	1	
HOVE0051	No	39720	PICLORAM IN WHOLE WATER SAMPLE (UG/L)	07/16/90-07/16/90	0	1	
HOVE0056	No	39720	PICLORAM IN WHOLE WATER SAMPLE (UG/L)	07/16/90-07/16/90	0	1	
HOVE0007	No	39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	07/18/90-07/18/90	0	1	
HOVE0015	No	39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	07/19/90-07/19/90	0	1	
HOVE0051	No	39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	07/16/90-07/16/90	0	1	
HOVE0056	No	39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	07/16/90-07/16/90	0	1	
HOVE0007	No	39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	07/18/90-07/18/90	0	1	
HOVE0015	No	39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	07/19/90-07/19/90	0	1	
HOVE0051	No	39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	07/16/90-07/16/90	0	1	
HOVE0056	No	39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	07/16/90-07/16/90	0	1	
HOVE0007	No	39758	MIREX, BOTTOM MATERIAL (UG/KG DRY SOLIDS)	11/09/90-11/09/90	0	1	
HOVE0015	No	39758	MIREX, BOTTOM MATERIAL (UG/KG DRY SOLIDS)	11/09/90-11/09/90	0	1	
HOVE0030	No	39758	MIREX, BOTTOM MATERIAL (UG/KG DRY SOLIDS)	11/15/90-11/15/90	0	1	
HOVE0044	No	39758	MIREX, BOTTOM MATERIAL (UG/KG DRY SOLIDS)	11/14/90-11/14/90	0	1	
HOVE0051	No	39758	MIREX, BOTTOM MATERIAL (UG/KG DRY SOLIDS)	11/14/90-11/14/90	0	1	
HOVE0056	No	39758	MIREX, BOTTOM MATERIAL (UG/KG DRY SOLIDS)	11/14/90-11/14/90	0	1	
HOVE0007	No	39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	07/18/90-07/18/90	0	1	
HOVE0015	No	39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	07/19/90-07/19/90	0	1	
HOVE0051	No	39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	07/16/90-07/16/90	0	1	
HOVE0056	No	39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	07/16/90-07/16/90	0	1	
HOVE0007	No	39786	TRITHION IN WHOLE WATER SAMPLE (UG/L)	07/18/90-07/18/90	0	1	
HOVE0015	No	39786	TRITHION IN WHOLE WATER SAMPLE (UG/L)	07/19/90-07/19/90	0	1	
HOVE0051	No	39786	TRITHION IN WHOLE WATER SAMPLE (UG/L)	07/16/90-07/16/90	0	1	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 03/10/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HOVE0056	No	39786	TRITHION IN WHOLE WATER SAMPLE (UG/L)	07/16/90-07/16/90	0	1	
HOVE0007	No	39790	METHYL TRITHION IN WHOLE WATER SAMPLE (UG/L)	07/18/90-07/18/90	0	1	
HOVE0015	No	39790	METHYL TRITHION IN WHOLE WATER SAMPLE (UG/L)	07/19/90-07/19/90	0	1	
HOVE0051	No	39790	METHYL TRITHION IN WHOLE WATER SAMPLE (UG/L)	07/16/90-07/16/90	0	1	
HOVE0056	No	39790	METHYL TRITHION IN WHOLE WATER SAMPLE (UG/L)	07/16/90-07/16/90	0	1	
HOVE0044	No	60050	ALGAE, TOTAL (CELLS/ML)	12/27/77-07/27/81	3	23	
HOVE0007	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/28/90-11/09/90	0	3	
HOVE0015	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/11/90-11/09/90	0	3	
HOVE0023	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/23/94-07/07/94	0	2	
HOVE0030	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/11/90-11/15/90	0	2	
HOVE0040	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	01/23/68-04/01/82	14	77	T,S
HOVE0044	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/27/69-11/14/90	21	32	
HOVE0047	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/14/94-09/14/94	0	1	
HOVE0048	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/14/94-09/14/94	0	1	
HOVE0051	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/27/90-11/14/90	0	3	
HOVE0054	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/14/94-09/14/94	0	1	
HOVE0056	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/27/90-11/14/90	0	3	
HOVE0057	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/14/94-09/14/94	0	1	
HOVE0058	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/14/94-09/14/94	0	1	
HOVE0059	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/14/94-09/14/94	0	1	
HOVE0043	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/04/79-09/04/79	0	1	
HOVE0044	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/27/69-02/23/88	18	28	
HOVE0060	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/08/54-09/08/54	0	1	
HOVE0061	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/01/59-05/01/59	0	1	
HOVE0063	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/08/54-09/08/54	0	1	
HOVE0005	No	70302	SOLIDS, DISSOLVED-TONS PER DAY	03/28/90-11/09/90	0	3	
HOVE0014	No	70302	SOLIDS, DISSOLVED-TONS PER DAY	04/11/90-11/14/90	0	3	
HOVE0023	No	70302	SOLIDS, DISSOLVED-TONS PER DAY	03/23/94-07/07/94	0	2	
HOVE0031	No	70302	SOLIDS, DISSOLVED-TONS PER DAY	04/11/90-07/13/94	4	4	
HOVE0043	No	70302	SOLIDS, DISSOLVED-TONS PER DAY	09/04/79-09/04/79	0	1	
HOVE0044	No	70302	SOLIDS, DISSOLVED-TONS PER DAY	08/27/69-07/27/81	11	28	
HOVE0046	No	70302	SOLIDS, DISSOLVED-TONS PER DAY	03/27/90-11/14/90	0	3	
HOVE0050	No	70302	SOLIDS, DISSOLVED-TONS PER DAY	03/27/90-11/14/90	0	3	
HOVE0055	No	70302	SOLIDS, DISSOLVED-TONS PER DAY	03/27/90-11/14/90	0	3	
HOVE0043	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/04/79-09/04/79	0	1	
HOVE0044	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/27/69-07/27/81	11	28	
HOVE0044	No	70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	12/04/78-06/30/80	1	5	
HOVE0044	No	70332	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .125MM	04/25/79-09/27/79	0	2	
HOVE0044	No	70333	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .250MM	09/27/79-09/27/79	0	1	
HOVE0044	No	70334	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM	09/27/79-09/27/79	0	1	
HOVE0044	No	70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	03/26/79-09/08/80	1	8	
HOVE0044	No	70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	03/26/79-09/08/80	1	8	
HOVE0044	No	70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	03/26/79-09/08/80	1	8	
HOVE0044	No	70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	03/26/79-09/08/80	1	6	
HOVE0044	No	70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	03/26/79-09/08/80	1	6	
HOVE0044	No	70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	04/14/80-09/08/80	0	4	
HOVE0044	No	70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	09/08/80-09/08/80	0	1	
HOVE0044	No	70950	BIOMASS-CHLOROPHYLL RATIO, PERIPHYTON (UNITS)	05/12/80-05/12/80	0	1	
HOVE0044	No	70957	CHLOROPHYLL-A,PERIPHYTON UG/L,CHROMO-FLUORO	03/06/78-05/12/80	2	3	
HOVE0044	No	70958	CHLOROPHYLL-B,PERIPHYTON UG/L,CHROMO-FLUORO	03/06/78-05/12/80	2	3	
HOVE0044	No	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	04/25/79-10/27/80	1	13	
HOVE0047	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	09/14/94-09/14/94	0	1	
HOVE0048	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	09/14/94-09/14/94	0	1	
HOVE0054	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	09/14/94-09/14/94	0	1	
HOVE0057	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	09/14/94-09/14/94	0	1	
HOVE0058	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	09/14/94-09/14/94	0	1	
HOVE0059	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	09/14/94-09/14/94	0	1	
HOVE0060	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	09/08/54-09/08/54	0	1	
HOVE0061	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	05/01/59-05/01/59	0	1	
HOVE0063	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	09/08/54-09/08/54	0	1	
HOVE0044	No	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	04/25/79-07/27/81	2	16	
HOVE0044	No	71887	NITROGEN, TOTAL, AS NO3 - MG/L	12/27/77-07/27/81	3	23	
HOVE0007	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	03/28/90-11/09/90	0	3	
HOVE0015	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	04/11/90-11/09/90	0	3	
HOVE0030	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	04/11/90-11/15/90	0	2	
HOVE0044	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	03/06/78-11/14/90	12	11	
HOVE0051	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	03/27/90-11/14/90	0	3	
HOVE0056	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	03/27/90-11/14/90	0	3	
HOVE0044	No	71895	MERCURY, SUSPENDED (UG/L AS HG)	05/22/79-05/26/81	2	4	
HOVE0040	No	71900	MERCURY, TOTAL (UG/L AS HG)	08/02/79-11/05/81	2	6	
HOVE0044	No	71900	MERCURY, TOTAL (UG/L AS HG)	05/22/79-05/26/81	2	4	
HOVE0007	No	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	11/09/90-11/09/90	0	1	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 03/10/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HOVE0015	No	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	11/09/90-11/09/90	0	1	
HOVE0025	No	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	06/14/94-06/14/94	0	1	
HOVE0030	No	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	11/15/90-11/15/90	0	1	
HOVE0034	No	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	06/14/94-06/14/94	0	1	
HOVE0044	No	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	03/06/78-11/14/90	12	7	
HOVE0051	No	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	11/14/90-11/14/90	0	1	
HOVE0056	No	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	11/14/90-11/14/90	0	1	
HOVE0012	No	72025	DEPTH OF POND OR RESERVOIR IN FEET	06/23/76-06/23/76	0	1	
HOVE0044	No	72104	SAMPLE LOCATION, DISTANCE DOWNSTREAM (FEET)	01/23/95-01/23/95	0	1	
HOVE0044	No	72105	SAMPLE LOCATION, DISTANCE UPSTREAM (FEET)	10/27/94-08/23/95	0	11	
HOVE0007	No	75993	URANIUM,NATURAL,1 SIGMA PRC EST,TOTAL,WATER UG/L	03/28/90-11/09/90	0	3	
HOVE0015	No	75993	URANIUM,NATURAL,1 SIGMA PRC EST,TOTAL,WATER UG/L	04/11/90-11/09/90	0	3	
HOVE0030	No	75993	URANIUM,NATURAL,1 SIGMA PRC EST,TOTAL,WATER UG/L	04/11/90-11/15/90	0	2	
HOVE0044	No	75993	URANIUM,NATURAL,1 SIGMA PRC EST,TOTAL,WATER UG/L	03/27/90-11/14/90	0	3	
HOVE0051	No	75993	URANIUM,NATURAL,1 SIGMA PRC EST,TOTAL,WATER UG/L	03/27/90-11/14/90	0	3	
HOVE0056	No	75993	URANIUM,NATURAL,1 SIGMA PRC EST,TOTAL,WATER UG/L	03/27/90-11/14/90	0	3	
HOVE0044	No	80030	ALPHA,DISSOLVED GROSS,AS URANIUM-NATURAL,UG/L	05/22/79-05/26/81	2	4	
HOVE0044	No	80040	ALPHA,SUSPENDED GROSS, AS URANIUM-NATURAL, UG/L	05/22/79-05/26/81	2	4	
HOVE0044	No	80050	BETA,DISSOLVED GROSS,AS SR-Y-90, PC/L	05/22/79-05/26/81	2	4	
HOVE0044	No	80060	BETA,SUSPENDED GROSS,AS SR-Y-90, PC/L	05/22/79-05/26/81	2	4	
HOVE0044	No	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	12/27/77-01/27/81	3	22	
HOVE0044	No	80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	12/27/77-01/27/81	3	22	
HOVE0007	No	81886	PERTHANE IN SEDIMENT DRY WEIGHT UG/KG	11/09/90-11/09/90	0	1	
HOVE0015	No	81886	PERTHANE IN SEDIMENT DRY WEIGHT UG/KG	11/09/90-11/09/90	0	1	
HOVE0030	No	81886	PERTHANE IN SEDIMENT DRY WEIGHT UG/KG	11/15/90-11/15/90	0	1	
HOVE0044	No	81886	PERTHANE IN SEDIMENT DRY WEIGHT UG/KG	11/14/90-11/14/90	0	1	
HOVE0051	No	81886	PERTHANE IN SEDIMENT DRY WEIGHT UG/KG	11/14/90-11/14/90	0	1	
HOVE0056	No	81886	PERTHANE IN SEDIMENT DRY WEIGHT UG/KG	11/14/90-11/14/90	0	1	
HOVE0007	No	82052	BANVEL (DICAMBA) WHOLE WATER,UG/L	07/18/90-07/18/90	0	1	
HOVE0015	No	82052	BANVEL (DICAMBA) WHOLE WATER,UG/L	07/19/90-07/19/90	0	1	
HOVE0051	No	82052	BANVEL (DICAMBA) WHOLE WATER,UG/L	07/16/90-07/16/90	0	1	
HOVE0056	No	82052	BANVEL (DICAMBA) WHOLE WATER,UG/L	07/16/90-07/16/90	0	1	
HOVE0044	No	82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	01/27/81-07/27/81	0	3	
HOVE0007	No	82170	GOLD IN SEDIMENT MG/KG	11/09/90-11/09/90	0	1	
HOVE0015	No	82170	GOLD IN SEDIMENT MG/KG	11/09/90-11/09/90	0	1	
HOVE0030	No	82170	GOLD IN SEDIMENT MG/KG	11/15/90-11/15/90	0	1	
HOVE0044	No	82170	GOLD IN SEDIMENT MG/KG	11/14/90-11/14/90	0	1	
HOVE0051	No	82170	GOLD IN SEDIMENT MG/KG	11/14/90-11/14/90	0	1	
HOVE0056	No	82170	GOLD IN SEDIMENT MG/KG	11/14/90-11/14/90	0	1	
HOVE0007	No	82183	2,4-DP (DICHLORPROP) TOTAL UG/L	07/18/90-07/18/90	0	1	
HOVE0015	No	82183	2,4-DP (DICHLORPROP) TOTAL UG/L	07/19/90-07/19/90	0	1	
HOVE0051	No	82183	2,4-DP (DICHLORPROP) TOTAL UG/L	07/16/90-07/16/90	0	1	
HOVE0056	No	82183	2,4-DP (DICHLORPROP) TOTAL UG/L	07/16/90-07/16/90	0	1	
HOVE0007	No	82311	YTTERBIUMIN BOTTOM MATERIAL DRY WT. AS YB UG/KG	11/09/90-11/09/90	0	1	
HOVE0015	No	82311	YTTERBIUMIN BOTTOM MATERIAL DRY WT. AS YB UG/KG	11/09/90-11/09/90	0	1	
HOVE0030	No	82311	YTTERBIUMIN BOTTOM MATERIAL DRY WT. AS YB UG/KG	11/15/90-11/15/90	0	1	
HOVE0044	No	82311	YTTERBIUMIN BOTTOM MATERIAL DRY WT. AS YB UG/KG	11/14/90-11/14/90	0	1	
HOVE0051	No	82311	YTTERBIUMIN BOTTOM MATERIAL DRY WT. AS YB UG/KG	11/14/90-11/14/90	0	1	
HOVE0056	No	82311	YTTERBIUMIN BOTTOM MATERIAL DRY WT. AS YB UG/KG	11/14/90-11/14/90	0	1	
HOVE0007	No	82313	THORIUM IN BOTTOM MATERIAL DRY WEIGHT AS TH UG/KG	11/09/90-11/09/90	0	1	
HOVE0015	No	82313	THORIUM IN BOTTOM MATERIAL DRY WEIGHT AS TH UG/KG	11/09/90-11/09/90	0	1	
HOVE0030	No	82313	THORIUM IN BOTTOM MATERIAL DRY WEIGHT AS TH UG/KG	11/15/90-11/15/90	0	1	
HOVE0044	No	82313	THORIUM IN BOTTOM MATERIAL DRY WEIGHT AS TH UG/KG	11/14/90-11/14/90	0	1	
HOVE0051	No	82313	THORIUM IN BOTTOM MATERIAL DRY WEIGHT AS TH UG/KG	11/14/90-11/14/90	0	1	
HOVE0056	No	82313	THORIUM IN BOTTOM MATERIAL DRY WEIGHT AS TH UG/KG	11/14/90-11/14/90	0	1	
HOVE0007	No	82317	SCANDIUM, IN BOTTOM MATERIAL DRY WT AS SC UG/KG	11/09/90-11/09/90	0	1	
HOVE0015	No	82317	SCANDIUM, IN BOTTOM MATERIAL DRY WT AS SC UG/KG	11/09/90-11/09/90	0	1	
HOVE0030	No	82317	SCANDIUM, IN BOTTOM MATERIAL DRY WT AS SC UG/KG	11/15/90-11/15/90	0	1	
HOVE0044	No	82317	SCANDIUM, IN BOTTOM MATERIAL DRY WT AS SC UG/KG	11/14/90-11/14/90	0	1	
HOVE0051	No	82317	SCANDIUM, IN BOTTOM MATERIAL DRY WT AS SC UG/KG	11/14/90-11/14/90	0	1	
HOVE0056	No	82317	SCANDIUM, IN BOTTOM MATERIAL DRY WT AS SC UG/KG	11/14/90-11/14/90	0	1	
HOVE0007	No	82321	TANTALUM IN BOTTOM MATERIAL DRY WT. AS TA UG/KG	11/09/90-11/09/90	0	1	
HOVE0015	No	82321	TANTALUM IN BOTTOM MATERIAL DRY WT. AS TA UG/KG	11/09/90-11/09/90	0	1	
HOVE0030	No	82321	TANTALUM IN BOTTOM MATERIAL DRY WT. AS TA UG/KG	11/15/90-11/15/90	0	1	
HOVE0044	No	82321	TANTALUM IN BOTTOM MATERIAL DRY WT. AS TA UG/KG	11/14/90-11/14/90	0	1	
HOVE0051	No	82321	TANTALUM IN BOTTOM MATERIAL DRY WT. AS TA UG/KG	11/14/90-11/14/90	0	1	
HOVE0056	No	82321	TANTALUM IN BOTTOM MATERIAL DRY WT. AS TA UG/KG	11/14/90-11/14/90	0	1	
HOVE0007	No	82398	SAMPLING METHOD (CODES)	03/28/90-11/09/90	0	3	
HOVE0015	No	82398	SAMPLING METHOD (CODES)	04/11/90-11/09/90	0	3	
HOVE0025	No	82398	SAMPLING METHOD (CODES)	06/14/94-06/14/94	0	1	
HOVE0030	No	82398	SAMPLING METHOD (CODES)	11/15/90-07/13/94	3	3	
HOVE0034	No	82398	SAMPLING METHOD (CODES)	06/14/94-06/14/94	0	1	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 03/10/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HOVE0044	No	82398	SAMPLING METHOD (CODES)	11/28/77-03/10/97	19	130	
HOVE0051	No	82398	SAMPLING METHOD (CODES)	03/27/90-11/14/90	0	3	
HOVE0056	No	82398	SAMPLING METHOD (CODES)	03/27/90-11/14/90	0	3	
HOVE0060	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	09/08/54-09/08/54	0	1	
HOVE0061	Yes	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	05/01/59-05/01/59	0	1	
HOVE0063	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	09/08/54-09/08/54	0	1	
HOVE0060	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	09/08/54-09/08/54	0	1	
HOVE0061	Yes	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	05/01/59-05/01/59	0	1	
HOVE0063	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	09/08/54-09/08/54	0	1	
HOVE0012	No	85281	INVALID PARAMETER	06/23/76-06/23/76	0	1	

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

Station-By-Station Results

Station Inventory for Station: HOVE0001

NPS Station ID: HOVE0001
LAT/LON: 37.426670/-108.616115
Agency: 11USBRUC
Date Created: 05/15/82
Location: UPPER HERMANA LATERAL
FIPS State/County: 08083 COLORADO/MONTEZUMA
Station Type: /CANAL/TYPA/AMBNT
STORET Station ID(s): DRMC0290
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 14080202
Depth of Water: 0
Aquifer:
Major Basin: COLORADO RIVER
Elevation: 0
Water Body Id:
Minor Basin: MIDDLE COLORADO-SAN JUAN RIVER
ECO Region:
RF1 Index: 14080202
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 14080202000800.00
RF3 Mile Point: 0.33
Distance from RF3: 0.54
On/Off RF3:
Description:

Parameter Inventory for Station: HOVE0001

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: HOVE0002

NPS Station ID: HOVE0002
LAT/LON: 37.400004/-108.625005
Agency: 11USBRUC
Date Created: 05/15/82
Location: MAY LATERAL ON DIVIDE
FIPS State/County: 08083 COLORADO/MONTEZUMA
Station Type: /CANAL/TYPA/AMBNT
STORET Station ID(s): DRMC0350
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 14080202
Depth of Water: 0
Aquifer:
Major Basin: COLORADO RIVER
Elevation: 0
Water Body Id:
Minor Basin: MIDDLE COLORADO-SAN JUAN RIVER
ECO Region:
RF1 Index: 14080202
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 14080202001400.00
RF3 Mile Point: 0.21
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: HOVE0002

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: HOVE0003

NPS Station ID: HOVE0003 | LAT/LON: 37.414698/-108.646892 | Agency: 11NPSWRD | Date Created: 08/15/98
Location: C24701 | FIPS State/County: 08083 COLORADO/MONTEZUMA
Station Type: /RESERV/TYPA/AMBNT | STORET Station ID(s): HOVE_NURE_23 /1085262
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 14080202 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 0 | Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER SAN JUAN RIVER | ECO Region:
RF1 Index: 14080202 | RF1 Mile Point: 0.000 | Distance from RF1: 0.20 | On/Off RF1:
RF3 Index: 14080203001600.00 | RF3 Mile Point: 3.26 | Distance from RF3: 0.11 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE ARRIOLA COLORADO 7.5 MINUTE SERIES (TOPO.) QUADRANGLE. THE SITE IS AT A RESERVOIR AND IS OUTSIDE OF THE HOVENWEEP NATIONAL MONUMENT BOUNDARY. THE SAMPLES WERE FILTERED THROUGH A 0.45 UM MEMBRANE FILTER AND ACIDIFIED TO A PH OF LESS THAN OR EQUAL TO 1 WITH REAGENT GRADE NITRIC ACID. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NATIONAL PARK SERVICE-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: HOVE0003

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/28/77-08/28/77	1	18.1	18.1	18.1	18.1	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/28/77-08/28/77	1	370.	370.	370.	370.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/28/77-08/28/77	1	8.9	8.9	8.9	8.9	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/28/77-08/28/77	1	8.9	8.9	8.9	8.9	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/28/77-08/28/77	1	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/28/77-08/28/77	1	32.7	32.7	32.7	32.7	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/28/77-08/28/77	1	16.4	16.4	16.4	16.4	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	08/28/77-08/28/77	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	08/28/77-08/28/77	1 ##	27.5	27.5	27.5	27.5	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	08/28/77-08/28/77	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/28/77-08/28/77	1	89.	89.	89.	89.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	08/28/77-08/28/77	1 ##	100.	100.	100.	100.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/28/77-08/28/77	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	08/28/77-08/28/77	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	08/28/77-08/28/77	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	08/28/77-08/28/77	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	08/28/77-08/28/77	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	08/28/77-08/28/77	1	0.07	0.07	0.07	0.07	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: HOVE0003

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/15 Obs	7/01-10/15 Exceed	7/01-10/15 Prop.	10/16-12/31 Obs	10/16-12/31 Exceed	10/16-12/31 Prop.	1/01-3/15 Obs	1/01-3/15 Exceed	1/01-3/15 Prop.	3/16-6/30 Obs	3/16-6/30 Exceed	3/16-6/30 Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01049	LEAD, DISSOLVED	Fresh Acute	82.	0 &	0	0.00												
		Drinking Water	15.	0 &	0	0.00												
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: HOVE0004

NPS Station ID: HOVE0004 | LAT/LON: 37.397198/-108.648616 | Agency: 11NPSWRD | Date Created: 08/15/98
Location: C24706 | FIPS State/County: 08083 COLORADO/MONTEZUMA
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): HOVE_NURE_21 /1085267
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 14080202 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 0 | Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER SAN JUAN RIVER | ECO Region:
RF1 Index: 14080202 | RF1 Mile Point: 0.000 | Distance from RF1: 0.20 | On/Off RF1:
RF3 Index: 14080203001600.00 | RF3 Mile Point: 3.26 | Distance from RF3: 0.11 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE ARRIOLA COLORADO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE OF THE HOVENWEEP NATIONAL MONUMENT BOUNDARY. THE SAMPLES WERE FILTERED THROUGH A 0.45 UM MEMBRANE FILTER AND ACIDIFIED TO A PH OF LESS THAN OR EQUAL TO 1 WITH REAGENT GRADE NITRIC ACID. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NATIONAL PARK SERVICE-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: HOVE0004

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/28/77-08/28/77	1	24.2	24.2	24.2	24.2	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/28/77-08/28/77	1	2640.	2640.	2640.	2640.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/28/77-08/28/77	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/28/77-08/28/77	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/28/77-08/28/77	1	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/28/77-08/28/77	1	383.	383.	383.	383.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/28/77-08/28/77	1	222.	222.	222.	222.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	08/28/77-08/28/77	1	323.	323.	323.	323.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	08/28/77-08/28/77	1	279.	279.	279.	279.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	08/28/77-08/28/77	1	94.	94.	94.	94.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/28/77-08/28/77	1	206.	206.	206.	206.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	08/28/77-08/28/77	1 ##	100.	100.	100.	100.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/28/77-08/28/77	1	469.	469.	469.	469.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	08/28/77-08/28/77	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	08/28/77-08/28/77	1	715.	715.	715.	715.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	08/28/77-08/28/77	1	257.	257.	257.	257.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	08/28/77-08/28/77	1	112.	112.	112.	112.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	08/28/77-08/28/77	1	1.37	1.37	1.37	1.37	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: HOVE0004

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/15 Obs	7/01-10/15 Exceed	7/01-10/15 Prop.	10/16-12/31 Obs	10/16-12/31 Exceed	10/16-12/31 Prop.	1/01-3/15 Obs	1/01-3/15 Exceed	1/01-3/15 Prop.	3/16-6/30 Obs	3/16-6/30 Exceed	3/16-6/30 Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	1	1.00	1	1	1.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	1	1.00	1	1	1.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01049	LEAD, DISSOLVED	Fresh Acute	82.	0 &	0	0.00												
		Drinking Water	15.	0 &	0	0.00												
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	1	1.00	1	1	1.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	1	1.00	1	1	1.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: HOVE0005

NPS Station ID: HOVE0005 LAT/LON: 37.397781/-108.648893 Agency: 11NPSWRD Date Created: 09/12/98
Location: ALKALI CANYON DOWNSTREAM OF NARRAGUINNEP CANYON FIPS State/County: 08083 COLORADO/MONTEZUMA
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): HOVE_USGS_AK
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 14080202 Depth of Water: 0 Aquifer:
Major Basin: COLORADO RIVER Elevation: 0 Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER SAN JUAN RIVER ECO Region:
RF1 Index: 14080202 RF1 Mile Point: 0.000 Distance from RF1: 0.20 On/Off RF1:
RF3 Index: 14080203001600.00 RF3 Mile Point: 3.26 Distance from RF3: 0.11 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE ARRIOLA COLORADO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS LOCATED AT ALKALI CANYON DOWNSTREAM FROM NARRAGUINNEP CANYON. THE SAMPLING SITE IS OUTSIDE OF THE HOVENWEEP NATIONAL MONUMENT BOUNDARY BUT IS WITHIN A 10 MILE RADIUS OF THE MONUMENT. THE DATA WERE COLLECTED BY THE U.S. GEOLOGICAL SURVEY IN COOPERATION WITH THE U.S. FISH AND WILDLIFE SERVICE; BUREAU OF RECLAMATION; AND BUREAU OF INDIAN AFFAIRS; AND ARE PRESENTED IN THE USGS WATER-RESOURCES INVESTIGATIONS REPORT NUMBER 94-4041. SELECT DATA FOR THIS SITE WERE PREVIOUSLY UPLOADED TO STORET BY THE USGS UNDER STATION ID 372352108385601. DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (970-225-3516).

Parameter Inventory for Station: HOVE0005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/28/90-11/09/90	3	287.	288.	298.	279.	91.	9.539	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	03/28/90-11/09/90	3	1200.	1110.	1400.	730.	118300.	343.948	**	**	**	**
00931	SODIUM ADSORPTION RATIO	03/28/90-11/09/90	3	1.	0.9	1.	0.7	0.03	0.173	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	03/28/90-11/09/90	3	62.3	49.7	64.2	22.6	551.71	23.489	**	**	**	**

** - Less than 9 observations ## - 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: HOVE0006

NPS Station ID: HOVE0006 LAT/LON: 37.397226/-108.648893 Agency: 11USBRUC Date Created: 05/15/82
Location: ALKALI CREEK BELOW NARRAGUINNEP CANYON FIPS State/County: 08083 COLORADO/MONTEZUMA
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): DRMC0100
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 14080202 Depth of Water: 0 Aquifer:
Major Basin: COLORADO RIVER Elevation: 0 Water Body Id:
Minor Basin: MIDDLE COLORADO-SAN JUAN RIVER ECO Region:
RF1 Index: 14080202013 RF1 Mile Point: 6.160 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 14080202001203.01 RF3 Mile Point: 3.00 Distance from RF3: 0.00 On/Off RF3:
Description:

Parameter Inventory for Station: HOVE0006

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: HOVE0007

NPS Station ID: HOVE0007 LAT/LON: 37.397781/-108.648893 Agency: 112WRD Date Created: 06/02/90
Location: ALKALI CANYON BLW NARRAGUINNEP CANYON, NR CORTEZ FIPS State/County: 08083 COLORADO/MONTEZUMA
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 372352108385601
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 14080202 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 14080202 RF1 Mile Point: 0.000 Distance from RF1: 0.90 On/Off RF1:
RF3 Index: 14080202001100.60 RF3 Mile Point: 7.34 Distance from RF3: 0.02 On/Off RF3:
Description:

Parameter Inventory for Station: HOVE0007

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/28/90-11/09/90	3	7.5	9.5	18.	3.	59.25	7.697	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	03/28/90-11/09/90	3	610.	610.667	617.	605.	36.333	6.028	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/28/90-11/09/90	3	14.	13.667	23.	4.	90.333	9.504	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/28/90-11/09/90	3	2220.	2030.	2460.	1410.	302700.	550.182	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	03/28/90-11/09/90	3	9.8	9.4	10.8	7.6	2.68	1.637	**	**	**	**
00400	PH (STANDARD UNITS)	03/28/90-11/09/90	3	8.2	8.2	8.3	8.1	0.01	0.1	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	03/28/90-11/09/90	3	8.2	8.192	8.3	8.1	0.01	0.1	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/28/90-11/09/90	3	0.006	0.006	0.008	0.005	0.	0.001	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	03/28/90-11/09/90	3	8.	7.967	8.1	7.8	0.023	0.153	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	03/28/90-11/09/90	3	8.	7.948	8.1	7.8	0.024	0.154	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/28/90-11/09/90	3	0.01	0.011	0.016	0.008	0.	0.004	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	11/09/90-11/09/90	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	11/09/90-11/09/90	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	03/28/90-11/09/90	3 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	11/09/90-11/09/90	1	400.	400.	400.	400.	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/09/90-11/09/90	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	03/28/90-11/09/90	3	280.	256.667	310.	180.	4633.333	68.069	**	**	**	**
00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	11/09/90-11/09/90	1	38000.	38000.	38000.	38000.	0.	0.	**	**	**	**
00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	11/09/90-11/09/90	1	6000.	6000.	6000.	6000.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/28/90-11/09/90	3	130.	116.	150.	68.	1828.	42.755	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	03/28/90-11/09/90	3	81.	75.667	100.	46.	750.333	27.392	**	**	**	**
00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	11/09/90-11/09/90	1	4200.	4200.	4200.	4200.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	03/28/90-11/09/90	3	4.1	4.067	4.2	3.9	0.023	0.153	**	**	**	**
00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	11/09/90-11/09/90	1	11000.	11000.	11000.	11000.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	03/28/90-11/09/90	3	18.	16.333	18.	13.	8.333	2.887	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	03/28/90-11/09/90	3	1000.	910.	1200.	530.	118300.	343.948	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/09/90-11/09/90	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	07/18/90-11/09/90	2	15.	15.	16.	14.	2.	1.414	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/28/90-11/09/90	3 ##	0.5	0.667	1.	0.5	0.083	0.289	**	**	**	**
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	11/09/90-11/09/90	1	5.6	5.6	5.6	5.6	0.	0.	**	**	**	**
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	11/09/90-11/09/90	1	380.	380.	380.	380.	0.	0.	**	**	**	**
01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	11/09/90-11/09/90	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	03/28/90-11/09/90	3	130.	123.333	130.	110.	133.333	11.547	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/28/90-11/09/90	3	1.	0.833	1.	0.5	0.083	0.289	**	**	**	**
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	11/09/90-11/09/90	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	11/09/90-11/09/90	1	24.	24.	24.	24.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/28/90-11/09/90	3 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	11/09/90-11/09/90	1	10.	10.	10.	10.	0.	0.	**	**	**	**

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

Parameter Inventory for Station: HOVE0007

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01040	COPPER, DISSOLVED (UG/L AS CU)	03/28/90-11/09/90	3	2.	1.667	2.	1.	0.333	0.577	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	11/09/90-11/09/90	1	11.	11.	11.	11.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	03/28/90-11/09/90	3 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	11/09/90-11/09/90	1	14.	14.	14.	14.	0.	0.	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	11/09/90-11/09/90	1	500.	500.	500.	500.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	03/28/90-11/09/90	3	1.	0.833	1.	0.5	0.083	0.289	**	**	**	**
01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	11/09/90-11/09/90	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	11/09/90-11/09/90	1	13.	13.	13.	13.	0.	0.	**	**	**	**
01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	11/09/90-11/09/90	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	11/09/90-11/09/90	1	400.	400.	400.	400.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	03/28/90-11/09/90	3	1.	2.167	5.	0.5	6.083	2.466	**	**	**	**
01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	11/09/90-11/09/90	1	39.	39.	39.	39.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/28/90-11/09/90	3 ##	5.	8.333	15.	5.	33.333	5.774	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	11/09/90-11/09/90	1	41.	41.	41.	41.	0.	0.	**	**	**	**
01103	TIN IN BOTTOM DEPOSITS (MG/KG AS SN DRY WGT)	11/09/90-11/09/90	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	11/09/90-11/09/90	1	36000.	36000.	36000.	36000.	0.	0.	**	**	**	**
01133	LITHIUM IN BOTTOM DEPOSITS (MG/KG AS LI DRY WGT)	11/09/90-11/09/90	1	25.	25.	25.	25.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	03/28/90-11/09/90	3 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	11/09/90-11/09/90	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	11/09/90-11/09/90	1	1500.	1500.	1500.	1500.	0.	0.	**	**	**	**
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	11/09/90-11/09/90	1	18000.	18000.	18000.	18000.	0.	0.	**	**	**	**
22707	URANIUM, NATURAL IN SEDIMENT (UG/G OF DRY SOLIDS)	11/09/90-11/09/90	1	2.3	2.3	2.3	2.3	0.	0.	**	**	**	**
28011	URANIUM,NATURAL,TOTAL UG/L AS U	03/28/90-11/09/90	3	4.4	4.1	5.6	2.3	2.79	1.67	**	**	**	**
39011	DISYSTON, FLAME PHOTOMETRIC,WATER SAMPLE (UG/L)	07/18/90-07/18/90	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39023	PHORATE, FLAME IONIZATION, WATER SAMPLE (UG/L)	07/18/90-07/18/90	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39040	S,S,S-TRIBUTYL PHOSPHOROTRITHIOATE WTR-FPD UG/L	07/18/90-07/18/90	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39251	PCNS IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	11/09/90-11/09/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/09/90-11/09/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	11/09/90-11/09/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	11/09/90-11/09/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/09/90-11/09/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/09/90-11/09/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/09/90-11/09/90	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	11/09/90-11/09/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39389	ENDOSULFAN IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/09/90-11/09/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/09/90-11/09/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39398	ETHION IN WHOLE WATER SAMPLE (UG/L)	07/18/90-07/18/90	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	11/09/90-11/09/90	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	11/09/90-11/09/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	11/09/90-11/09/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	11/09/90-11/09/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/09/90-11/09/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	07/18/90-07/18/90	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	07/18/90-07/18/90	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	07/18/90-07/18/90	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	07/18/90-07/18/90	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39720	PICLORAM IN WHOLE WATER SAMPLE (UG/L)	07/18/90-07/18/90	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	07/18/90-07/18/90	1	0.07	0.07	0.07	0.07	0.	0.	**	**	**	**
39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	07/18/90-07/18/90	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39758	MIREX, BOTTOM MATERIAL (UG/KG DRY SOLIDS)	11/09/90-11/09/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	07/18/90-07/18/90	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39786	TRITHION IN WHOLE WATER SAMPLE (UG/L)	07/18/90-07/18/90	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39790	METHYL TRITHION IN WHOLE WATER SAMPLE (UG/L)	07/18/90-07/18/90	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/28/90-11/09/90	3	1670.	1530.	1820.	1100.	144300.	379.868	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	03/28/90-11/09/90	3 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	11/09/90-11/09/90	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
75993	URANIUM,NATURAL,1 SIGMA PRC EST,TOTAL,WATER UG/L	03/28/90-11/09/90	3	1.3	1.1	1.4	0.6	0.19	0.436	**	**	**	**
81886	PERTHANE IN SEDIMENT DRY WEIGHT UG/KG	11/09/90-11/09/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
82052	BANVEL (DICAMBA) WHOLE WATER,UG/L	07/18/90-07/18/90	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
82170	GOLD IN SEDIMENT MG/KG	11/09/90-11/09/90	1 ##	4.	4.	4.	4.	0.	0.	**	**	**	**
82183	2,4-DP (DICHLORPROP) TOTAL UG/L	07/18/90-07/18/90	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82311	YTTERBIUMIN BOTTOM MATERIAL DRY WT. AS YB UG/KG	11/09/90-11/09/90	1	1.	1.	1.	1.	0.	0.	**	**	**	**
82313	THORIUM IN BOTTOM MATERIAL DRY WEIGHT AS TH UG/KG	11/09/90-11/09/90	1	6.1	6.1	6.1	6.1	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: HOVE0007

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
82317	SCANDIUM, IN BOTTOM MATERIAL DRY WT AS SC UG/KG	11/09/90-11/09/90	1	4.	4.	4.	4.	0.	0.	**	**	**	**
82321	TANTALUM IN BOTTOM MATERIAL DRY WT. AS TA UG/KG	11/09/90-11/09/90	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: HOVE0007

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/15 Obs	7/01-10/15 Exceed	7/01-10/15 Prop.	10/16-12/31 Obs	10/16-12/31 Exceed	10/16-12/31 Prop.	1/01-3/15 Obs	1/01-3/15 Exceed	1/01-3/15 Prop.	3/16-6/30 Obs	3/16-6/30 Exceed	3/16-6/30 Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
00400	PH	Fresh Chronic	9.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
		Other-Lo Lim.	6.5	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
00403	PH, LAB	Fresh Chronic	9.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
		Other-Lo Lim.	6.5	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	1	0	0.00				1	0	0.00						
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
		Drinking Water	250.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	3	3	1.00	1	1	1.00	1	1	1.00				1	1	1.00
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00				1	0	0.00						
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
		Drinking Water	50.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
		Drinking Water	5.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
01040	COPPER, DISSOLVED	Fresh Acute	18.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
		Drinking Water	1300.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
01049	LEAD, DISSOLVED	Fresh Acute	82.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
		Drinking Water	15.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
01090	ZINC, DISSOLVED	Fresh Acute	120.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
		Drinking Water	5000.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
		Drinking Water	50.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
28011	URANIUM, NATURAL, TOTAL	Drinking Water	20.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
39540	PARATHION IN WHOLE WATER SAMPLE	Fresh Acute	0.065	1	0	0.00	1	0	0.00									
39720	PICLORAM IN WHOLE WATER SAMPLE	Drinking Water	500.	1	0	0.00	1	0	0.00									
39730	2,4-D IN WHOLE WATER SAMPLE	Drinking Water	70.	1	0	0.00	1	0	0.00									
39760	SILVEX IN WHOLE WATER SAMPLE	Drinking Water	50.	1	0	0.00	1	0	0.00									
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
		Drinking Water	2.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00

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

Station Inventory for Station: HOVE0008

NPS Station ID: HOVE0008
LAT/LON: 37.412503/-108.650838
Agency: 11USBRUC
Date Created: 05/15/82
Location: ALKALI CREEK ON GOODMAN POINT ROAD
FIPS State/County: 08083 COLORADO/MONTEZUMA
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): DRMC0110
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 14080202
Depth of Water: 0
Aquifer:
Major Basin: COLORADO RIVER
Elevation: 0
Water Body Id:
Minor Basin: MIDDLE COLORADO-SAN JUAN RIVER
ECO Region:
RF1 Index: 14080202013
RF1 Mile Point: 6.810
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 14080202001304.88
RF3 Mile Point: 8.77
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: HOVE0008

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: HOVE0009

NPS Station ID: HOVE0009 | LAT/LON: 37.442503/-108.652505 | Agency: 11NPSWRD | Date Created: 08/15/98
Location: C24697 | FIPS State/County: 08083 COLORADO/MONTEZUMA
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): HOVE_NURE_12 /1085258
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 14080202 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 0 | Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER SAN JUAN RIVER | ECO Region:
RF1 Index: 14080202 | RF1 Mile Point: 0.000 | Distance from RF1: 0.20 | On/Off RF1:
RF3 Index: 14080203001600.00 | RF3 Mile Point: 3.26 | Distance from RF3: 0.11 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE ARRIOLA COLORADO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE OF THE HOVENWEEP NATIONAL MONUMENT BOUNDARY. THE SAMPLES WERE FILTERED THROUGH A 0.45 UM MEMBRANE FILTER AND ACIDIFIED TO A PH OF LESS THAN OR EQUAL TO 1 WITH REAGENT GRADE NITRIC ACID. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NATIONAL PARK SERVICE-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: HOVE0009

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/28/77-08/28/77	1	12.6	12.6	12.6	12.6	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/28/77-08/28/77	1	2400.	2400.	2400.	2400.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/28/77-08/28/77	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/28/77-08/28/77	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/28/77-08/28/77	1	0.016	0.016	0.016	0.016	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/28/77-08/28/77	1	416.	416.	416.	416.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/28/77-08/28/77	1	180.	180.	180.	180.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	08/28/77-08/28/77	1	181.	181.	181.	181.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	08/28/77-08/28/77	1	238.	238.	238.	238.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	08/28/77-08/28/77	1	74.	74.	74.	74.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/28/77-08/28/77	1	103.	103.	103.	103.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	08/28/77-08/28/77	1 ##	100.	100.	100.	100.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/28/77-08/28/77	1	162.	162.	162.	162.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	08/28/77-08/28/77	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	08/28/77-08/28/77	1	396.	396.	396.	396.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	08/28/77-08/28/77	1	317.	317.	317.	317.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	08/28/77-08/28/77	1	76.	76.	76.	76.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	08/28/77-08/28/77	1	0.35	0.35	0.35	0.35	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: HOVE0009

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/15 Obs	7/01-10/15 Exceed	7/01-10/15 Prop.	10/16-12/31 Obs	10/16-12/31 Exceed	10/16-12/31 Prop.	1/01-3/15 Obs	1/01-3/15 Exceed	1/01-3/15 Prop.	3/16-6/30 Obs	3/16-6/30 Exceed	3/16-6/30 Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	1	1.00	1	1	1.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	1	1.00	1	1	1.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01049	LEAD, DISSOLVED	Fresh Acute	82.	0 &	0	0.00												
		Drinking Water	15.	0 &	0	0.00												
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	1	1.00	1	1	1.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	1	1.00	1	1	1.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: HOVE0010

NPS Station ID: HOVE0010 | LAT/LON: 37.413892/-108.653893 | Agency: 11NPSWRD | Date Created: 08/15/98
Location: C24700 | FIPS State/County: 08083 COLORADO/MONTEZUMA
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): HOVE_NURE_24 /1085261
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 14080202 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 0 | Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER SAN JUAN RIVER | ECO Region:
RF1 Index: 14080202 | RF1 Mile Point: 0.000 | Distance from RF1: 0.20 | On/Off RF1:
RF3 Index: 14080203001600.00 | RF3 Mile Point: 3.26 | Distance from RF3: 0.11 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE ARRIOLA COLORADO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE OF THE HOVENWEEP NATIONAL MONUMENT BOUNDARY. THE SAMPLES WERE FILTERED THROUGH A 0.45 UM MEMBRANE FILTER AND ACIDIFIED TO A PH OF LESS THAN OR EQUAL TO 1 WITH REAGENT GRADE NITRIC ACID. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NATIONAL PARK SERVICE-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: HOVE0010

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/28/77-08/28/77	1	18.1	18.1	18.1	18.1	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/28/77-08/28/77	1	2500.	2500.	2500.	2500.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/28/77-08/28/77	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/28/77-08/28/77	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/28/77-08/28/77	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/28/77-08/28/77	1	310.	310.	310.	310.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/28/77-08/28/77	1	166.	166.	166.	166.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	08/28/77-08/28/77	1	420.	420.	420.	420.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	08/28/77-08/28/77	1	261.	261.	261.	261.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	08/28/77-08/28/77	1	102.	102.	102.	102.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/28/77-08/28/77	1	189.	189.	189.	189.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	08/28/77-08/28/77	1 ##	100.	100.	100.	100.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/28/77-08/28/77	1	734.	734.	734.	734.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	08/28/77-08/28/77	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	08/28/77-08/28/77	1	973.	973.	973.	973.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	08/28/77-08/28/77	1	196.	196.	196.	196.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	08/28/77-08/28/77	1	144.	144.	144.	144.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	08/28/77-08/28/77	1	0.8	0.8	0.8	0.8	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: HOVE0010

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/15 Obs	7/01-10/15 Exceed	7/01-10/15 Prop.	10/16-12/31 Obs	10/16-12/31 Exceed	10/16-12/31 Prop.	1/01-3/15 Obs	1/01-3/15 Exceed	1/01-3/15 Prop.	3/16-6/30 Obs	3/16-6/30 Exceed	3/16-6/30 Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	1	1.00	1	1	1.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	1	1.00	1	1	1.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01049	LEAD, DISSOLVED	Fresh Acute	82.	0 &	0	0.00												
		Drinking Water	15.	0 &	0	0.00												
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	1	1.00	1	1	1.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	1	1.00	1	1	1.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: HOVE0011

NPS Station ID: HOVE0011
LAT/LON: 37.438892/-108.663892
Agency: 11USBRUC
Date Created: 05/15/82
Location: TRIBUTARY TO ALKALI CREEK
FIPS State/County: 08083 COLORADO/MONTEZUMA
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): DRMC0250
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 14080202
Depth of Water: 0
Aquifer:
Major Basin: COLORADO RIVER
Elevation: 0
Water Body Id:
Minor Basin: MIDDLE COLORADO-SAN JUAN RIVER
ECO Region:
RF1 Index: 14080202
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 14080202004300.00
RF3 Mile Point: 0.00
Distance from RF3: 0.18
On/Off RF3:
Description:

Parameter Inventory for Station: HOVE0011

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: HOVE0012

NPS Station ID: HOVE0012 LAT/LON: 37.375005/-108.675004 Agency: 12TAWI Date Created: 09/24/76
Location: MANCOS RIVER FIPS State/County: 08083 COLORADO/MONTEZUMA
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): SJMR008
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 14080202 Depth of Water: 1 Aquifer:
Major Basin: COLORADO RIVER Elevation: 0 Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER-SAN JUAN RIVER ECO Region:
RF1 Index: 14080202 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 14080201001412.92 RF3 Mile Point: 13.93 Distance from RF3: 0.02 On/Off RF3:
Description:
MANCOS RIVER, 120 YARDS UPSTREAM OF BRIDGE U.S. HWY 666. NO FLOW, ISOLATED POOLS. POOL SAMPLED 10 X 50 FEET, 0.75 FEET DEEP. SILT AND GRAVEL BOTTOM. RIPARIAN VEGETATION 50% TAMARIX.

Parameter Inventory for Station: HOVE0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	06/23/76-06/23/76	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/23/76-06/23/76	1	13.9	13.9	13.9	13.9	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/23/76-06/23/76	1	21.4	21.4	21.4	21.4	0.	0.	**	**	**	**
00055	VELOCITY, STREAM FT/SEC	06/23/76-06/23/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/23/76-06/23/76	1	800.	800.	800.	800.	0.	0.	**	**	**	**
00105	RIVER MILE, UPSTREAM END OF REACH	06/06/76-06/06/76	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/23/76-06/23/76	1	6.8	6.8	6.8	6.8	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	06/23/76-06/23/76	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/23/76-06/23/76	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/23/76-06/23/76	1	0.006	0.006	0.006	0.006	0.	0.	**	**	**	**
72025	DEPTH OF POND OR RESERVOIR IN FEET	06/23/76-06/23/76	1	1.	1.	1.	1.	0.	0.	**	**	**	**
85281	INVALID PARAMETER	06/23/76-06/23/76	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: HOVE0012

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/15 Obs	7/01-10/15 Exceed	7/01-10/15 Prop.	10/16-12/31 Obs	10/16-12/31 Exceed	10/16-12/31 Prop.	1/01-3/15 Obs	1/01-3/15 Exceed	1/01-3/15 Prop.	3/16-6/30 Obs	3/16-6/30 Exceed	3/16-6/30 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

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

Station Inventory for Station: HOVE0013

NPS Station ID: HOVE0013 | LAT/LON: 37.425809/-108.678892 | Agency: 11NPSWRD | Date Created: 08/15/98
Location: C24699 | FIPS State/County: 08083 COLORADO/MONTEZUMA
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): HOVE_NURE_13 /1085260
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 14080202 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 0 | Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER SAN JUAN RIVER | ECO Region:
RF1 Index: 14080202 | RF1 Mile Point: 0.000 | Distance from RF1: 0.20 | On/Off RF1:
RF3 Index: 14080203001600.00 | RF3 Mile Point: 3.26 | Distance from RF3: 0.11 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE ARRIOLA COLORADO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE OF THE HOVENWEEP NATIONAL MONUMENT BOUNDARY. THE SAMPLES WERE FILTERED THROUGH A 0.45 UM MEMBRANE FILTER AND ACIDIFIED TO A PH OF LESS THAN OR EQUAL TO 1 WITH REAGENT GRADE NITRIC ACID. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NATIONAL PARK SERVICE-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: HOVE0013

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/28/77-08/28/77	1	2000.	2000.	2000.	2000.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/28/77-08/28/77	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/28/77-08/28/77	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/28/77-08/28/77	1	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/28/77-08/28/77	1	316.	316.	316.	316.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/28/77-08/28/77	1	80.1	80.1	80.1	80.1	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	08/28/77-08/28/77	1	140.	140.	140.	140.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	08/28/77-08/28/77	1	206.	206.	206.	206.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	08/28/77-08/28/77	1	59.	59.	59.	59.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/28/77-08/28/77	1	81.	81.	81.	81.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	08/28/77-08/28/77	1 ##	100.	100.	100.	100.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/28/77-08/28/77	1	82.	82.	82.	82.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	08/28/77-08/28/77	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	08/28/77-08/28/77	1	295.	295.	295.	295.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	08/28/77-08/28/77	1	180.	180.	180.	180.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	08/28/77-08/28/77	1	116.	116.	116.	116.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	08/28/77-08/28/77	1	1.77	1.77	1.77	1.77	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: HOVE0013

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/15 Obs	7/01-10/15 Exceed	7/01-10/15 Prop.	10/16-12/31 Obs	10/16-12/31 Exceed	10/16-12/31 Prop.	1/01-3/15 Obs	1/01-3/15 Exceed	1/01-3/15 Prop.	3/16-6/30 Obs	3/16-6/30 Exceed	3/16-6/30 Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	1	1.00	1	1	1.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	1	1.00	1	1	1.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01049	LEAD, DISSOLVED	Fresh Acute	82.	0 &	0	0.00												
		Drinking Water	15.	0 &	0	0.00												
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	1	1.00	1	1	1.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	1	1.00	1	1	1.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: HOVE0014

NPS Station ID: HOVE0014 | LAT/LON: 37.477782/-108.681671 | Agency: 11NPSWRD | Date Created: 09/12/98
Location: DAWSON DRAW NEAR LEWIS | FIPS State/County: 08083 COLORADO/MONTEZUMA
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): HOVE_USGS_DD
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 14080202 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 0 | Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER SAN JUAN RIVER | ECO Region:
RF1 Index: 14080202 | RF1 Mile Point: 0.000 | Distance from RF1: 0.20 | On/Off RF1:
RF3 Index: 14080203001600.00 | RF3 Mile Point: 3.26 | Distance from RF3: 0.11 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE ARRIOLA COLORADO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS LOCATED AT DAWSON DRAW NEAR LEWIS. THE SAMPLING SITE IS OUTSIDE OF THE HOVENWEEP NATIONAL MONUMENT BOUNDARY BUT IS WITHIN A 10 MILE RADIUS OF THE MONUMENT. THE DATA WERE COLLECTED BY THE U.S. GEOLOGICAL SURVEY IN COOPERATION WITH THE U.S. FISH AND WILDLIFE SERVICE; BUREAU OF RECLAMATION; AND BUREAU OF INDIAN AFFAIRS; AND ARE PRESENTED IN THE USGS WATER-RESOURCES INVESTIGATIONS REPORT NUMBER 94-4041. SELECT DATA FOR THIS SITE WERE PREVIOUSLY UPLOADED TO STORET BY THE USGS UNDER STATION ID 372840108405401. DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (970-225-3516).

Parameter Inventory for Station: HOVE0014

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/11/90-11/14/90	3	322.	311.333	324.	288.	409.333	20.232	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	04/11/90-11/14/90	3	680.	730.	1100.	410.	120900.	347.707	**	**	**	**
00931	SODIUM ADSORPTION RATIO	04/11/90-11/14/90	3	1.	1.2	2.	0.6	0.52	0.721	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	04/11/90-11/14/90	3	11.7	14.327	22.1	9.18	46.906	6.849	**	**	**	**

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

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

Station Inventory for Station: HOVE0015

NPS Station ID: HOVE0015 LAT/LON: 37.477782/-108.681671 Agency: 112WRD Date Created: 07/28/90
Location: DAWSON DRAW AT COUNTY ROAD, NR ARRIOLA FIPS State/County: 08083 COLORADO/MONTEZUMA
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 372840108405401
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 14080202 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 14080202 RF1 Mile Point: 0.000 Distance from RF1: 9.20 On/Off RF1:
RF3 Index: 14080202008500.00 RF3 Mile Point: 0.00 Distance from RF3: 0.03 On/Off RF3:
Description:

Parameter Inventory for Station: HOVE0015

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/11/90-11/09/90	3	6.5	10.167	21.5	2.5	100.333	10.017	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	04/11/90-11/09/90	3	608.	607.667	612.	603.	20.333	4.509	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/11/90-11/09/90	3	5.	7.333	15.	2.	46.333	6.807	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/11/90-11/09/90	3	1400.	1457.333	2090.	882.	367281.333	606.037	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	04/11/90-11/09/90	3	8.6	8.667	10.5	6.9	3.243	1.801	**	**	**	**
00400	PH (STANDARD UNITS)	04/11/90-11/09/90	3	8.1	8.133	8.2	8.1	0.003	0.058	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	04/11/90-11/09/90	3	8.1	8.131	8.2	8.1	0.003	0.058	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/11/90-11/09/90	3	0.008	0.007	0.008	0.006	0.	0.001	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	04/11/90-11/09/90	3	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	04/11/90-11/09/90	3	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/11/90-11/09/90	3	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	11/09/90-11/09/90	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	11/09/90-11/09/90	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	04/11/90-11/09/90	3 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	11/09/90-11/09/90	1	400.	400.	400.	400.	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/09/90-11/09/90	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	04/11/90-11/09/90	3	150.	160.	230.	100.	4300.	65.574	**	**	**	**
00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	11/09/90-11/09/90	1	7000.	7000.	7000.	7000.	0.	0.	**	**	**	**
00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	11/09/90-11/09/90	1	4200.	4200.	4200.	4200.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	04/11/90-11/09/90	3	74.	78.	120.	40.	1612.	40.15	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	04/11/90-11/09/90	3	60.	70.	120.	30.	2100.	45.826	**	**	**	**
00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	11/09/90-11/09/90	1	3500.	3500.	3500.	3500.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	04/11/90-11/09/90	3	3.7	4.267	5.4	3.7	0.963	0.981	**	**	**	**
00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	11/09/90-11/09/90	1	12000.	12000.	12000.	12000.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	04/11/90-11/09/90	3	18.	17.667	18.	17.	0.333	0.577	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	04/11/90-11/09/90	3	450.	566.667	1100.	150.	235833.333	485.627	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/09/90-11/09/90	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	07/19/90-11/09/90	2	16.5	16.5	18.	15.	4.5	2.121	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	04/11/90-11/09/90	3	1.	1.	1.	1.	0.	0.	**	**	**	**
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	11/09/90-11/09/90	1	4.3	4.3	4.3	4.3	0.	0.	**	**	**	**
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	11/09/90-11/09/90	1	360.	360.	360.	360.	0.	0.	**	**	**	**
01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	11/09/90-11/09/90	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	04/11/90-11/09/90	3	80.	86.667	100.	80.	133.333	11.547	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	04/11/90-11/09/90	3 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	11/09/90-11/09/90	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	11/09/90-11/09/90	1	24.	24.	24.	24.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	04/11/90-11/09/90	3 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	11/09/90-11/09/90	1	6.	6.	6.	6.	0.	0.	**	**	**	**

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

Parameter Inventory for Station: HOVE0015

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01040	COPPER, DISSOLVED (UG/L AS CU)	04/11/90-11/09/90	3	1.	1.	1.	1.	0.	0.	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	11/09/90-11/09/90	1	12.	12.	12.	12.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	04/11/90-11/09/90	3 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	11/09/90-11/09/90	1	14.	14.	14.	14.	0.	0.	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	11/09/90-11/09/90	1	280.	280.	280.	280.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	04/11/90-11/09/90	3	1.	0.833	1.	0.5	0.083	0.289	**	**	**	**
01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	11/09/90-11/09/90	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	11/09/90-11/09/90	1	11.	11.	11.	11.	0.	0.	**	**	**	**
01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	11/09/90-11/09/90	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	11/09/90-11/09/90	1	98.	98.	98.	98.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	04/11/90-11/09/90	3	3.	4.333	8.	2.	10.333	3.215	**	**	**	**
01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	11/09/90-11/09/90	1	39.	39.	39.	39.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	04/11/90-11/09/90	3	7.	7.	9.	5.	4.	2.	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	11/09/90-11/09/90	1	39.	39.	39.	39.	0.	0.	**	**	**	**
01103	TIN IN BOTTOM DEPOSITS (MG/KG AS SN DRY WGT)	11/09/90-11/09/90	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	11/09/90-11/09/90	1	38000.	38000.	38000.	38000.	0.	0.	**	**	**	**
01133	LITHIUM IN BOTTOM DEPOSITS (MG/KG AS LI DRY WGT)	11/09/90-11/09/90	1	25.	25.	25.	25.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	04/11/90-11/09/90	3 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	11/09/90-11/09/90	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	11/09/90-11/09/90	1	1700.	1700.	1700.	1700.	0.	0.	**	**	**	**
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	11/09/90-11/09/90	1	16000.	16000.	16000.	16000.	0.	0.	**	**	**	**
22707	URANIUM, NATURAL IN SEDIMENT (UG/G OF DRY SOLIDS)	11/09/90-11/09/90	1	2.	2.	2.	2.	0.	0.	**	**	**	**
28011	URANIUM,NATURAL,TOTAL UG/L AS U	04/11/90-11/09/90	3	4.	3.167	5.	0.5	5.583	2.363	**	**	**	**
39011	DISYSTON, FLAME PHOTOMETRIC,WATER SAMPLE (UG/L)	07/19/90-07/19/90	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39023	PHORATE, FLAME IONIZATION, WATER SAMPLE (UG/L)	07/19/90-07/19/90	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39040	S,S,S-TRIBUTYL PHOSPHOROTRITHIOATE WTR-FPD UG/L	07/19/90-07/19/90	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39251	PCNS IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	11/09/90-11/09/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/09/90-11/09/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	11/09/90-11/09/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	11/09/90-11/09/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/09/90-11/09/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/09/90-11/09/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/09/90-11/09/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	11/09/90-11/09/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39389	ENDOSULFAN IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/09/90-11/09/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/09/90-11/09/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39398	ETHION IN WHOLE WATER SAMPLE (UG/L)	07/19/90-07/19/90	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	11/09/90-11/09/90	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	11/09/90-11/09/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	11/09/90-11/09/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	11/09/90-11/09/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/09/90-11/09/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	07/19/90-07/19/90	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	07/19/90-07/19/90	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	07/19/90-07/19/90	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	07/19/90-07/19/90	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39720	PICLORAM IN WHOLE WATER SAMPLE (UG/L)	07/19/90-07/19/90	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	07/19/90-07/19/90	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	07/19/90-07/19/90	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39758	MIREX, BOTTOM MATERIAL (UG/KG DRY SOLIDS)	11/09/90-11/09/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	07/19/90-07/19/90	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39786	TRITHION IN WHOLE WATER SAMPLE (UG/L)	07/19/90-07/19/90	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39790	METHYL TRITHION IN WHOLE WATER SAMPLE (UG/L)	07/19/90-07/19/90	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/11/90-11/09/90	3	1020.	1144.	1800.	612.	364368.	603.629	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	04/11/90-11/09/90	3 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	11/09/90-11/09/90	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
75993	URANIUM,NATURAL,1 SIGMA PRC EST,TOTAL,WATER UG/L	04/11/90-11/09/90	3	0.9	0.933	1.6	0.3	0.423	0.651	**	**	**	**
81886	PERTHANE IN SEDIMENT DRY WEIGHT UG/KG	11/09/90-11/09/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
82052	BANVEL (DICAMBA) WHOLE WATER,UG/L	07/19/90-07/19/90	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82170	GOLD IN SEDIMENT MG/KG	11/09/90-11/09/90	1 ##	4.	4.	4.	4.	0.	0.	**	**	**	**
82183	2,4-DP (DICHLORPROP) TOTAL UG/L	07/19/90-07/19/90	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82311	YTTERBIUMIN BOTTOM MATERIAL DRY WT. AS YB UG/KG	11/09/90-11/09/90	1	1.	1.	1.	1.	0.	0.	**	**	**	**
82313	THORIUM IN BOTTOM MATERIAL DRY WEIGHT AS TH UG/KG	11/09/90-11/09/90	1	7.4	7.4	7.4	7.4	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: HOVE0015

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
82317	SCANDIUM, IN BOTTOM MATERIAL DRY WT AS SC UG/KG	11/09/90-11/09/90	1	4.	4.	4.	4.	0.	0.	**	**	**	**
82321	TANTALUM IN BOTTOM MATERIAL DRY WT. AS TA UG/KG	11/09/90-11/09/90	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: HOVE0015

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/15 Obs	7/01-10/15 Exceed	7/01-10/15 Prop.	10/16-12/31 Obs	10/16-12/31 Exceed	10/16-12/31 Prop.	1/01-3/15 Obs	1/01-3/15 Exceed	1/01-3/15 Prop.	3/16-6/30 Obs	3/16-6/30 Exceed	3/16-6/30 Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
00400	PH	Fresh Chronic	9.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
		Other-Lo Lim.	6.5	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
00403	PH, LAB	Fresh Chronic	9.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
		Other-Lo Lim.	6.5	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	1	0	0.00				1	0	0.00						
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
		Drinking Water	250.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	3	2	0.67	1	0	0.00	1	1	1.00				1	1	1.00
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00				1	0	0.00						
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
		Drinking Water	50.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
		Drinking Water	5.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
01040	COPPER, DISSOLVED	Fresh Acute	18.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
		Drinking Water	1300.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
01049	LEAD, DISSOLVED	Fresh Acute	82.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
		Drinking Water	15.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
01090	ZINC, DISSOLVED	Fresh Acute	120.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
		Drinking Water	5000.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
		Drinking Water	50.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
28011	URANIUM, NATURAL, TOTAL	Drinking Water	20.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
39540	PARATHION IN WHOLE WATER SAMPLE	Fresh Acute	0.065	1	0	0.00	1	0	0.00									
39720	PICLORAM IN WHOLE WATER SAMPLE	Drinking Water	500.	1	0	0.00	1	0	0.00									
39730	2,4-D IN WHOLE WATER SAMPLE	Drinking Water	70.	1	0	0.00	1	0	0.00									
39760	SILVEX IN WHOLE WATER SAMPLE	Drinking Water	50.	1	0	0.00	1	0	0.00									
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
		Drinking Water	2.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00

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

Station Inventory for Station: HOVE0016

NPS Station ID: HOVE0016 | LAT/LON: 37.471893/-108.688893 | Agency: 11NPSWRD | Date Created: 08/15/98
Location: C24692 | FIPS State/County: 08083 COLORADO/MONTEZUMA
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): HOVE_NURE_32 /1085254
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 14080202 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 0 | Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER SAN JUAN RIVER | ECO Region:
RF1 Index: 14080202 | RF1 Mile Point: 0.000 | Distance from RF1: 0.20 | On/Off RF1:
RF3 Index: 14080203001600.00 | RF3 Mile Point: 3.26 | Distance from RF3: 0.11 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE ARRIOLA COLORADO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE OF THE HOVENWEEP NATIONAL MONUMENT BOUNDARY. THE SAMPLES WERE FILTERED THROUGH A 0.45 UM MEMBRANE FILTER AND ACIDIFIED TO A PH OF LESS THAN OR EQUAL TO 1 WITH REAGENT GRADE NITRIC ACID. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NATIONAL PARK SERVICE-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: HOVE0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/27/77-08/27/77	1	21.3	21.3	21.3	21.3	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/27/77-08/27/77	1	1000.	1000.	1000.	1000.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/27/77-08/27/77	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/27/77-08/27/77	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/27/77-08/27/77	1	0.032	0.032	0.032	0.032	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/27/77-08/27/77	1	142.	142.	142.	142.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/27/77-08/27/77	1	71.7	71.7	71.7	71.7	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	08/27/77-08/27/77	1	36.	36.	36.	36.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	08/27/77-08/27/77	1	109.	109.	109.	109.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	08/27/77-08/27/77	1	27.	27.	27.	27.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/27/77-08/27/77	1	138.	138.	138.	138.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	08/27/77-08/27/77	1 ##	100.	100.	100.	100.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/27/77-08/27/77	1	205.	205.	205.	205.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	08/27/77-08/27/77	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	08/27/77-08/27/77	1	160.	160.	160.	160.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	08/27/77-08/27/77	1	1120.	1120.	1120.	1120.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	08/27/77-08/27/77	1	13.	13.	13.	13.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	08/27/77-08/27/77	1	1.42	1.42	1.42	1.42	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: HOVE0016

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/15 Obs	7/01-10/15 Exceed	7/01-10/15 Prop.	10/16-12/31 Obs	10/16-12/31 Exceed	10/16-12/31 Prop.	1/01-3/15 Obs	1/01-3/15 Exceed	1/01-3/15 Prop.	3/16-6/30 Obs	3/16-6/30 Exceed	3/16-6/30 Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	1	1.00	1	1	1.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01049	LEAD, DISSOLVED	Fresh Acute	82.	0 &	0	0.00												
		Drinking Water	15.	0 &	0	0.00												
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	1	1.00	1	1	1.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	1	1.00	1	1	1.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: HOVE0017

NPS Station ID: HOVE0017 | LAT/LON: 37.392503/-108.689392 | Agency: 11NPSWRD | Date Created: 08/15/98
Location: C24704 | FIPS State/County: 08083 COLORADO/MONTEZUMA
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): HOVE_NURE_16 /1085265
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 14080202 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 0 | Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER SAN JUAN RIVER | ECO Region:
RF1 Index: 14080202 | RF1 Mile Point: 0.000 | Distance from RF1: 0.20 | On/Off RF1:
RF3 Index: 14080203001600.00 | RF3 Mile Point: 3.26 | Distance from RF3: 0.11 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE ARRIOLA COLORADO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE OF THE HOVENWEEP NATIONAL MONUMENT BOUNDARY. THE SAMPLES WERE FILTERED THROUGH A 0.45 UM MEMBRANE FILTER AND ACIDIFIED TO A PH OF LESS THAN OR EQUAL TO 1 WITH REAGENT GRADE NITRIC ACID. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NATIONAL PARK SERVICE-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: HOVE0017

Parameter		Period of Record	Obs		Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/28/77-08/28/77	1		18.4	18.4	18.4	18.4	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/28/77-08/28/77	1		410.	410.	410.	410.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/28/77-08/28/77	1		7.	7.	7.	7.	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/28/77-08/28/77	1		7.	7.	7.	7.	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/28/77-08/28/77	1		0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/28/77-08/28/77	1		61.8	61.8	61.8	61.8	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/28/77-08/28/77	1		8.9	8.9	8.9	8.9	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	08/28/77-08/28/77	1		148.	148.	148.	148.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	08/28/77-08/28/77	1	##	27.5	27.5	27.5	27.5	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	08/28/77-08/28/77	1		44.	44.	44.	44.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/28/77-08/28/77	1		116.	116.	116.	116.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	08/28/77-08/28/77	1	##	100.	100.	100.	100.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/28/77-08/28/77	1		66.	66.	66.	66.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	08/28/77-08/28/77	1	##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	08/28/77-08/28/77	1		318.	318.	318.	318.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	08/28/77-08/28/77	1		99.	99.	99.	99.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	08/28/77-08/28/77	1		48.	48.	48.	48.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	08/28/77-08/28/77	1		1.02	1.02	1.02	1.02	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: HOVE0017

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/15 Obs	7/01-10/15 Exceed	7/01-10/15 Prop.	10/16-12/31 Obs	10/16-12/31 Exceed	10/16-12/31 Prop.	1/01-3/15 Obs	1/01-3/15 Exceed	1/01-3/15 Prop.	3/16-6/30 Obs	3/16-6/30 Exceed	3/16-6/30 Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	1	1.00	1	1	1.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	1	1.00	1	1	1.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01049	LEAD, DISSOLVED	Fresh Acute	82.	0 &	0	0.00												
		Drinking Water	15.	0 &	0	0.00												
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	1	1.00	1	1	1.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: HOVE0018

NPS Station ID: HOVE0018 | LAT/LON: 37.393115/-108.691116 | Agency: 11NPSWRD | Date Created: 08/15/98
Location: C24703 | FIPS State/County: 08083 COLORADO/MONTEZUMA
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): HOVE_NURE_14 /1085264
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 14080202 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 0 | Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER SAN JUAN RIVER | ECO Region:
RF1 Index: 14080202 | RF1 Mile Point: 0.000 | Distance from RF1: 0.20 | On/Off RF1:
RF3 Index: 14080203001600.00 | RF3 Mile Point: 3.26 | Distance from RF3: 0.11 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE ARRIOLA COLORADO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE OF THE HOVENWEEP NATIONAL MONUMENT BOUNDARY. THE SAMPLES WERE FILTERED THROUGH A 0.45 UM MEMBRANE FILTER AND ACIDIFIED TO A PH OF LESS THAN OR EQUAL TO 1 WITH REAGENT GRADE NITRIC ACID. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NATIONAL PARK SERVICE-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: HOVE0018

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/28/77-08/28/77	1	22.3	22.3	22.3	22.3	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/28/77-08/28/77	1	1750.	1750.	1750.	1750.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/28/77-08/28/77	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/28/77-08/28/77	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/28/77-08/28/77	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/28/77-08/28/77	1	267.	267.	267.	267.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/28/77-08/28/77	1	78.8	78.8	78.8	78.8	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	08/28/77-08/28/77	1	120.	120.	120.	120.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	08/28/77-08/28/77	1	169.	169.	169.	169.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	08/28/77-08/28/77	1	45.	45.	45.	45.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/28/77-08/28/77	1	91.	91.	91.	91.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	08/28/77-08/28/77	1 ##	100.	100.	100.	100.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/28/77-08/28/77	1	405.	405.	405.	405.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	08/28/77-08/28/77	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	08/28/77-08/28/77	1	261.	261.	261.	261.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	08/28/77-08/28/77	1	106.	106.	106.	106.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	08/28/77-08/28/77	1	52.	52.	52.	52.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	08/28/77-08/28/77	1	2.39	2.39	2.39	2.39	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: HOVE0018

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/15 Obs	7/01-10/15 Exceed	7/01-10/15 Prop.	10/16-12/31 Obs	10/16-12/31 Exceed	10/16-12/31 Prop.	1/01-3/15 Obs	1/01-3/15 Exceed	1/01-3/15 Prop.	3/16-6/30 Obs	3/16-6/30 Exceed	3/16-6/30 Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	1	1.00	1	1	1.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	1	1.00	1	1	1.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01049	LEAD, DISSOLVED	Fresh Acute	82.	0 &	0	0.00												
		Drinking Water	15.	0 &	0	0.00												
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	1	1.00	1	1	1.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: HOVE0019

NPS Station ID: HOVE0019 | LAT/LON: 37.498115/-108.700810 | Agency: 11NPSWRD | Date Created: 08/15/98
Location: C24689 | FIPS State/County: 08083 COLORADO/MONTEZUMA
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): HOVE_NURE_29 /1085252
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 14080202 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 0 | Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER SAN JUAN RIVER | ECO Region:
RF1 Index: 14080202 | RF1 Mile Point: 0.000 | Distance from RF1: 0.20 | On/Off RF1:
RF3 Index: 14080203001600.00 | RF3 Mile Point: 3.26 | Distance from RF3: 0.11 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE ARRIOLA COLORADO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE OF THE HOVENWEEP NATIONAL MONUMENT BOUNDARY. THE SAMPLES WERE FILTERED THROUGH A 0.45 UM MEMBRANE FILTER AND ACIDIFIED TO A PH OF LESS THAN OR EQUAL TO 1 WITH REAGENT GRADE NITRIC ACID. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NATIONAL PARK SERVICE-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: HOVE0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/27/77-08/27/77	1	19.	19.	19.	19.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/27/77-08/27/77	1	800.	800.	800.	800.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/27/77-08/27/77	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/27/77-08/27/77	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/27/77-08/27/77	1	0.063	0.063	0.063	0.063	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/27/77-08/27/77	1	101.	101.	101.	101.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/27/77-08/27/77	1	39.3	39.3	39.3	39.3	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	08/27/77-08/27/77	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	08/27/77-08/27/77	1	82.	82.	82.	82.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	08/27/77-08/27/77	1	17.	17.	17.	17.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/27/77-08/27/77	1	54.	54.	54.	54.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	08/27/77-08/27/77	1 ##	100.	100.	100.	100.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/27/77-08/27/77	1	23.	23.	23.	23.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	08/27/77-08/27/77	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	08/27/77-08/27/77	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	08/27/77-08/27/77	1	1363.	1363.	1363.	1363.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	08/27/77-08/27/77	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	08/27/77-08/27/77	1	3.87	3.87	3.87	3.87	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: HOVE0019

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/15 Obs	7/01-10/15 Exceed	7/01-10/15 Prop.	10/16-12/31 Obs	10/16-12/31 Exceed	10/16-12/31 Prop.	1/01-3/15 Obs	1/01-3/15 Exceed	1/01-3/15 Prop.	3/16-6/30 Obs	3/16-6/30 Exceed	3/16-6/30 Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01049	LEAD, DISSOLVED	Fresh Acute	82.	0 &	0	0.00												
		Drinking Water	15.	0 &	0	0.00												
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	1	1.00	1	1	1.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: HOVE0020

NPS Station ID: HOVE0020
LAT/LON: 37.337503/-108.703337
Agency: 11USBRUC
Date Created: 05/15/82
Location: TRAIL CANYON DITCH
FIPS State/County: 08083 COLORADO/MONTEZUMA
Station Type: /CANAL/TYPA/AMBNT
STORET Station ID(s): DRMC0330
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 14080202
Depth of Water: 0
Aquifer:
Major Basin: COLORADO RIVER
Elevation: 0
Water Body Id:
Minor Basin: MIDDLE COLORADO-SAN JUAN RIVER
ECO Region:
RF1 Index: 14080202
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 14080202014700.00
RF3 Mile Point: 0.00
Distance from RF3: 0.05
On/Off RF3:
Description:

Parameter Inventory for Station: HOVE0020

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: HOVE0021

NPS Station ID: HOVE0021 | LAT/LON: 37.413892/-108.719198 | Agency: 11NPSWRD | Date Created: 08/15/98
Location: C24698 | FIPS State/County: 08083 COLORADO/MONTEZUMA
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): HOVE_NURE_18 /1085259
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 14080202 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 0 | Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER SAN JUAN RIVER | ECO Region:
RF1 Index: 14080202 | RF1 Mile Point: 0.000 | Distance from RF1: 0.20 | On/Off RF1:
RF3 Index: 14080203001600.00 | RF3 Mile Point: 3.26 | Distance from RF3: 0.11 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE ARRIOLA COLORADO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE OF THE HOVENWEEP NATIONAL MONUMENT BOUNDARY. THE SAMPLES WERE FILTERED THROUGH A 0.45 UM MEMBRANE FILTER AND ACIDIFIED TO A PH OF LESS THAN OR EQUAL TO 1 WITH REAGENT GRADE NITRIC ACID. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NATIONAL PARK SERVICE-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: HOVE0021

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/28/77-08/28/77	1	11.4	11.4	11.4	11.4	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/28/77-08/28/77	1	2475.	2475.	2475.	2475.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/28/77-08/28/77	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/28/77-08/28/77	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/28/77-08/28/77	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/28/77-08/28/77	1	290.	290.	290.	290.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/28/77-08/28/77	1	159.	159.	159.	159.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	08/28/77-08/28/77	1	134.	134.	134.	134.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	08/28/77-08/28/77	1	219.	219.	219.	219.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	08/28/77-08/28/77	1	52.	52.	52.	52.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/28/77-08/28/77	1	94.	94.	94.	94.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	08/28/77-08/28/77	1 ##	100.	100.	100.	100.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/28/77-08/28/77	1	85.	85.	85.	85.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	08/28/77-08/28/77	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	08/28/77-08/28/77	1	330.	330.	330.	330.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	08/28/77-08/28/77	1	245.	245.	245.	245.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	08/28/77-08/28/77	1	62.	62.	62.	62.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	08/28/77-08/28/77	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: HOVE0021

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/15 Obs	7/01-10/15 Exceed	7/01-10/15 Prop.	10/16-12/31 Obs	10/16-12/31 Exceed	10/16-12/31 Prop.	1/01-3/15 Obs	1/01-3/15 Exceed	1/01-3/15 Prop.	3/16-6/30 Obs	3/16-6/30 Exceed	3/16-6/30 Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	1	1.00	1	1	1.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	1	1.00	1	1	1.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01049	LEAD, DISSOLVED	Fresh Acute	82.	0 &	0	0.00												
		Drinking Water	15.	0 &	0	0.00												
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	1	1.00	1	1	1.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	1	1.00	1	1	1.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: HOVE0022

NPS Station ID: HOVE0022 | LAT/LON: 37.338115/-108.720810 | Agency: 11NPSWRD | Date Created: 08/15/98
Location: C24561 | FIPS State/County: 08083 COLORADO/MONTEZUMA
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): HOVE_NURE_15 /1085211
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 14080202 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 0 | Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER SAN JUAN RIVER | ECO Region:
RF1 Index: 14080202 | RF1 Mile Point: 0.000 | Distance from RF1: 0.20 | On/Off RF1:
RF3 Index: 14080203001600.00 | RF3 Mile Point: 3.26 | Distance from RF3: 0.11 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE MUD CREEK COLORADO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE OF THE HOVENWEEP NATIONAL MONUMENT BOUNDARY. THE SAMPLES WERE FILTERED THROUGH A 0.45 UM MEMBRANE FILTER AND ACIDIFIED TO A PH OF LESS THAN OR EQUAL TO 1 WITH REAGENT GRADE NITRIC ACID. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NATIONAL PARK SERVICE-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: HOVE0022

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/01/77-09/01/77	1	22.8	22.8	22.8	22.8	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/01/77-09/01/77	1	1100.	1100.	1100.	1100.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	09/01/77-09/01/77	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/01/77-09/01/77	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/01/77-09/01/77	1	0.032	0.032	0.032	0.032	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/01/77-09/01/77	1	128.	128.	128.	128.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/01/77-09/01/77	1	45.5	45.5	45.5	45.5	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/01/77-09/01/77	1	83.	83.	83.	83.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	09/01/77-09/01/77	1 ##	27.5	27.5	27.5	27.5	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	09/01/77-09/01/77	1	28.	28.	28.	28.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	09/01/77-09/01/77	1	58.	58.	58.	58.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	09/01/77-09/01/77	1 ##	100.	100.	100.	100.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/01/77-09/01/77	1	49.	49.	49.	49.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	09/01/77-09/01/77	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	09/01/77-09/01/77	1	172.	172.	172.	172.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	09/01/77-09/01/77	1	260.	260.	260.	260.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	09/01/77-09/01/77	1	34.	34.	34.	34.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	09/01/77-09/01/77	1	2.63	2.63	2.63	2.63	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: HOVE0022

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/15 Obs	7/01-10/15 Exceed	7/01-10/15 Prop.	10/16-12/31 Obs	10/16-12/31 Exceed	10/16-12/31 Prop.	1/01-3/15 Obs	1/01-3/15 Exceed	1/01-3/15 Prop.	3/16-6/30 Obs	3/16-6/30 Exceed	3/16-6/30 Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	1	1.00	1	1	1.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01049	LEAD, DISSOLVED	Fresh Acute	82.	0 &	0	0.00												
		Drinking Water	15.	0 &	0	0.00												
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	1	1.00	1	1	1.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	1	1.00	1	1	1.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: HOVE0023

NPS Station ID: HOVE0023 LAT/LON: 37.334838/-108.721337 Agency: 11NPSWRD Date Created: 09/12/98
Location: MCELMO CREEK UPSTREAM FROM TRAIL CANYON FIPS State/County: 08083 COLORADO/MONTEZUMA
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): HOVE_USGS_ME2B /09371520
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 14080202 Depth of Water: 0 Aquifer:
Major Basin: COLORADO RIVER Elevation: 0 Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER SAN JUAN RIVER ECO Region:
RF1 Index: 14080202 RF1 Mile Point: 0.000 Distance from RF1: 0.20 On/Off RF1:
RF3 Index: 14080203001600.00 RF3 Mile Point: 3.26 Distance from RF3: 0.11 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE MUD CREEK COLORADO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS LOCATED AT MCELMO CREEK UPSTREAM FROM TRAIL CANYON. THE SAMPLING SITE IS OUTSIDE OF THE HOVENWEEP NATIONAL MONUMENT BOUNDARY BUT IS WITHIN A 10 MILE RADIUS OF THE MONUMENT. THE DATA WERE COLLECTED BY THE U.S. GEOLOGICAL SURVEY IN COOPERATION WITH THE U.S. FISH AND WILDLIFE SERVICE; BUREAU OF RECLAMATION; AND BUREAU OF INDIAN AFFAIRS; AND ARE PRESENTED IN THE USGS WATER-RESOURCES INVESTIGATIONS REPORT NUMBER 97-4008. SELECT DATA FOR THIS SITE WERE PREVIOUSLY UPLOADED TO STORET BY THE USGS UNDER STATION ID 09371520. DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (970-225-3516).

Parameter Inventory for Station: HOVE0023

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	03/23/94-07/07/94	2	102.	102.	102.	102.	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/23/94-07/07/94	2	243.5	243.5	265.	222.	924.5	30.406	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	03/23/94-07/07/94	2	1255.	1255.	1800.	710.	594050.	770.746	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/23/94-07/07/94	2	1935.	1935.	2810.	1060.	1531250.	1237.437	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	03/23/94-07/07/94	2	209.	209.	289.	129.	12800.	113.137	**	**	**	**

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

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

Station Inventory for Station: HOVE0024

NPS Station ID: HOVE0024 | LAT/LON: 37.511392/-108.727505 | Agency: 11NPSWRD | Date Created: 08/15/98
Location: C24710 | FIPS State/County: 08083 COLORADO/MONTEZUMA
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): HOVE_NURE_31 /1085269
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 14080202 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 0 | Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER SAN JUAN RIVER | ECO Region:
RF1 Index: 14080202 | RF1 Mile Point: 0.000 | Distance from RF1: 0.20 | On/Off RF1:
RF3 Index: 14080203001600.00 | RF3 Mile Point: 3.26 | Distance from RF3: 0.11 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE YELLOW JACKET COLORADO 7.5 MINUTE SERIES (TOPO.) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE OF THE HOVENWEEP NATIONAL MONUMENT BOUNDARY. THE SAMPLES WERE FILTERED THROUGH A 0.45 UM MEMBRANE FILTER AND ACIDIFIED TO A PH OF LESS THAN OR EQUAL TO 1 WITH REAGENT GRADE NITRIC ACID. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NATIONAL PARK SERVICE-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: HOVE0024

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/27/77-08/27/77	1	16.8	16.8	16.8	16.8	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/27/77-08/27/77	1	3040.	3040.	3040.	3040.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/27/77-08/27/77	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/27/77-08/27/77	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/27/77-08/27/77	1	0.016	0.016	0.016	0.016	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/27/77-08/27/77	1	504.	504.	504.	504.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/27/77-08/27/77	1	278.	278.	278.	278.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	08/27/77-08/27/77	1	242.	242.	242.	242.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	08/27/77-08/27/77	1	313.	313.	313.	313.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	08/27/77-08/27/77	1	104.	104.	104.	104.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/27/77-08/27/77	1	310.	310.	310.	310.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	08/27/77-08/27/77	1 ##	100.	100.	100.	100.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/27/77-08/27/77	1	433.	433.	433.	433.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	08/27/77-08/27/77	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	08/27/77-08/27/77	1	496.	496.	496.	496.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	08/27/77-08/27/77	1	379.	379.	379.	379.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	08/27/77-08/27/77	1	93.	93.	93.	93.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	08/27/77-08/27/77	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

EPA Water Quality Criteria Analysis for Station: HOVE0024

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/15 Obs	7/01-10/15 Exceed	7/01-10/15 Prop.	10/16-12/31 Obs	10/16-12/31 Exceed	10/16-12/31 Prop.	1/01-3/15 Obs	1/01-3/15 Exceed	1/01-3/15 Prop.	3/16-6/30 Obs	3/16-6/30 Exceed	3/16-6/30 Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	1	1.00	1	1	1.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	1	1.00	1	1	1.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01049	LEAD, DISSOLVED	Fresh Acute	82.	0 &	0	0.00												
		Drinking Water	15.	0 &	0	0.00												
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	1	1.00	1	1	1.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	1	1.00	1	1	1.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: HOVE0025

NPS Station ID: HOVE0025 LAT/LON: 37.507226/-108.738060 Agency: 112WRD Date Created: 09/17/94
Location: POND ON TRIBUTARY OF UPPER YELLOW JACKET CANYON FIPS State/County: 08083 COLORADO/MONTEZUMA
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): 373026108441701
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 14080202 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 14080202 RF1 Mile Point: 0.000 Distance from RF1: 0.20 On/Off RF1:
RF3 Index: 14080203001600.00 RF3 Mile Point: 3.26 Distance from RF3: 0.11 On/Off RF3:
Description:

Parameter Inventory for Station: HOVE0025

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/14/94-06/14/94	1	22.	22.	22.	22.	0.	0.	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	06/14/94-06/14/94	1	596.	596.	596.	596.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/14/94-06/14/94	1	2370.	2370.	2370.	2370.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	06/14/94-06/14/94	1	5.7	5.7	5.7	5.7	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	06/14/94-06/14/94	1	8.02	8.02	8.02	8.02	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/14/94-06/14/94	1	8.02	8.02	8.02	8.02	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/14/94-06/14/94	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	06/14/94-06/14/94	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	06/14/94-06/14/94	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/14/94-06/14/94	1	0.016	0.016	0.016	0.016	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	06/14/94-06/14/94	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/14/94-06/14/94	1	270.	270.	270.	270.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/14/94-06/14/94	1	130.	130.	130.	130.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	06/14/94-06/14/94	1	150.	150.	150.	150.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	06/14/94-06/14/94	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/14/94-06/14/94	1	92.	92.	92.	92.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	06/14/94-06/14/94	1	900.	900.	900.	900.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	06/14/94-06/14/94	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	06/14/94-06/14/94	1	5.4	5.4	5.4	5.4	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	06/14/94-06/14/94	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	06/14/94-06/14/94	1	0.65	0.65	0.65	0.65	0.	0.	**	**	**	**
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	06/14/94-06/14/94	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: HOVE0025

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/15 Obs	7/01-10/15 Exceed	7/01-10/15 Prop.	10/16-12/31 Obs	10/16-12/31 Exceed	10/16-12/31 Prop.	1/01-3/15 Obs	1/01-3/15 Exceed	1/01-3/15 Prop.	3/16-6/30 Obs	3/16-6/30 Exceed	3/16-6/30 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
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: HOVE0025

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/15 Obs	7/01-10/15 Exceed	7/01-10/15 Prop.	10/16-12/31 Obs	10/16-12/31 Exceed	10/16-12/31 Prop.	1/01-3/15 Obs	1/01-3/15 Exceed	1/01-3/15 Prop.	3/16-6/30 Obs	3/16-6/30 Exceed	3/16-6/30 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	1	1.00										1	1	1.00
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00										1	0	0.00
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00										1	0	0.00
		Drinking Water	50.	1	0	0.00										1	0	0.00

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

Station Inventory for Station: HOVE0026

NPS Station ID: HOVE0026 LAT/LON: 37.507226/-108.738060 Agency: 11NPSWRD Date Created: 09/12/98
Location: POND ON TRIBUTARY OF UPPER YELLOW JACKET CANYON FIPS State/County: 08083 COLORADO/MONTEZUMA
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): HOVE_USGS_YJP
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 14080202 Depth of Water: 0 Aquifer:
Major Basin: COLORADO RIVER Elevation: 0 Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER SAN JUAN RIVER ECO Region:
RF1 Index: 14080202 RF1 Mile Point: 0.000 Distance from RF1: 0.20 On/Off RF1:
RF3 Index: 14080203001600.00 RF3 Mile Point: 3.26 Distance from RF3: 0.11 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE YELLOW JACKET COLORADO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS LOCATED AT A POND ON THE TRIBUTARY OF UPPER YELLOW JACKET CANYON. THE SAMPLING SITE IS OUTSIDE OF THE HOVENWEEP NATIONAL MONUMENT BOUNDARY BUT IS WITHIN A 10 MILE RADIUS OF THE MONUMENT. THE DATA WERE COLLECTED BY THE U.S. GEOLOGICAL SURVEY IN COOPERATION WITH THE U.S. FISH AND WILDLIFE SERVICE; BUREAU OF RECLAMATION; AND BUREAU OF INDIAN AFFAIRS; AND ARE PRESENTED IN THE USGS WATER-RESOURCES INVESTIGATIONS REPORT NUMBER 97-4008. SELECT DATA FOR THIS SITE WERE PREVIOUSLY UPLOADED TO STORET BY THE USGS UNDER STATION ID 373026108441701. DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: HOVE0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/14/94-06/14/94	1	85.	85.	85.	85.	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/14/94-06/14/94	1	381.	381.	381.	381.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/14/94-06/14/94	1	1200.	1200.	1200.	1200.	0.	0.	**	**	**	**

** - Less than 9 observations ## - 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: HOVE0027

NPS Station ID: HOVE0027 | LAT/LON: 37.441892/-108.738893 | Agency: 11NPSWRD | Date Created: 08/15/98
Location: C24696 | FIPS State/County: 08083 COLORADO/MONTEZUMA
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): HOVE_NURE_19 /1085257
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 14080202 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 0 | Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER SAN JUAN RIVER | ECO Region:
RF1 Index: 14080202 | RF1 Mile Point: 0.000 | Distance from RF1: 0.20 | On/Off RF1:
RF3 Index: 14080203001600.00 | RF3 Mile Point: 3.26 | Distance from RF3: 0.11 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE ARRIOLA COLORADO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE HOVENWEEP NATIONAL MONUMENT BOUNDARY. THE SAMPLES WERE FILTERED THROUGH A 0.45 UM MEMBRANE FILTER AND ACIDIFIED TO A PH OF LESS THAN OR EQUAL TO 1 WITH REAGENT GRADE NITRIC ACID. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NATIONAL PARK SERVICE-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: HOVE0027

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/28/77-08/28/77	1	20.2	20.2	20.2	20.2	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/28/77-08/28/77	1	2750.	2750.	2750.	2750.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/28/77-08/28/77	1	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/28/77-08/28/77	1	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/28/77-08/28/77	1	0.079	0.079	0.079	0.079	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/28/77-08/28/77	1	156.	156.	156.	156.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/28/77-08/28/77	1	150.	150.	150.	150.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	08/28/77-08/28/77	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	08/28/77-08/28/77	1	148.	148.	148.	148.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	08/28/77-08/28/77	1	27.	27.	27.	27.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/28/77-08/28/77	1	185.	185.	185.	185.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	08/28/77-08/28/77	1 ##	100.	100.	100.	100.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/28/77-08/28/77	1	637.	637.	637.	637.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	08/28/77-08/28/77	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	08/28/77-08/28/77	1	29.	29.	29.	29.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	08/28/77-08/28/77	1	2497.	2497.	2497.	2497.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	08/28/77-08/28/77	1	16.	16.	16.	16.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	08/28/77-08/28/77	1	1.7	1.7	1.7	1.7	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: HOVE0027

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/15 Obs	7/01-10/15 Exceed	7/01-10/15 Prop.	10/16-12/31 Obs	10/16-12/31 Exceed	10/16-12/31 Prop.	1/01-3/15 Obs	1/01-3/15 Exceed	1/01-3/15 Prop.	3/16-6/30 Obs	3/16-6/30 Exceed	3/16-6/30 Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	1	1.00	1	1	1.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01049	LEAD, DISSOLVED	Fresh Acute	82.	0 &	0	0.00												
		Drinking Water	15.	0 &	0	0.00												
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	1	1.00	1	1	1.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: HOVE0028

NPS Station ID: HOVE0028
LAT/LON: 37.339726/-108.741671
Agency: 11USBRUC
Date Created: 05/15/82
Location: GOODMAN GULCH NEAR MOUTH
FIPS State/County: 08083 COLORADO/MONTEZUMA
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): DRMC0340
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 14080202
Depth of Water: 0
Aquifer:
Major Basin: COLORADO RIVER
Elevation: 0
Water Body Id:
Minor Basin: MIDDLE COLORADO-SAN JUAN RIVER
ECO Region:
RF1 Index: 14080202007
RF1 Mile Point: 0.240
Distance from RF1: 7.30
On/Off RF1: OFF
RF3 Index: 14080202019800.00
RF3 Mile Point: 1.27
Distance from RF3: 0.06
On/Off RF3:
Description:

Parameter Inventory for Station: HOVE0028

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: HOVE0029

NPS Station ID: HOVE0029 LAT/LON: 37.500810/-108.767199 Agency: 11NPSWRD Date Created: 08/15/98
Location: C24665 FIPS State/County: 08083 COLORADO/MONTEZUMA
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): HOVE_NURE_28 /1085245
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 14080202 Depth of Water: 0 Aquifer:
Major Basin: COLORADO RIVER Elevation: 0 Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER SAN JUAN RIVER ECO Region:
RF1 Index: 14080202 RF1 Mile Point: 0.000 Distance from RF1: 0.20 On/Off RF1:
RF3 Index: 14080203001600.00 RF3 Mile Point: 3.26 Distance from RF3: 0.11 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PLEASANT VIEW COLORADO 7.5 MINUTE SERIES (TOPO.) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE OF THE HOVENWEEP NATIONAL MONUMENT BOUNDARY. THE SAMPLES WERE FILTERED THROUGH A 0.45 UM MEMBRANE FILTER AND ACIDIFIED TO A PH OF LESS THAN OR EQUAL TO 1 WITH REAGENT GRADE NITRIC ACID. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NATIONAL PARK SERVICE-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: HOVE0029

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/77-08/26/77	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/26/77-08/26/77	1	399.	399.	399.	399.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/26/77-08/26/77	1	185.	185.	185.	185.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	08/26/77-08/26/77	1	141.	141.	141.	141.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	08/26/77-08/26/77	1	252.	252.	252.	252.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	08/26/77-08/26/77	1	70.	70.	70.	70.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/26/77-08/26/77	1	154.	154.	154.	154.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	08/26/77-08/26/77	1 ##	100.	100.	100.	100.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/26/77-08/26/77	1	831.	831.	831.	831.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	08/26/77-08/26/77	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	08/26/77-08/26/77	1	291.	291.	291.	291.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	08/26/77-08/26/77	1	150.	150.	150.	150.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	08/26/77-08/26/77	1	50.	50.	50.	50.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	08/26/77-08/26/77	1	4.6	4.6	4.6	4.6	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: HOVE0029

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/15 Obs	7/01-10/15 Exceed	7/01-10/15 Prop.	10/16-12/31 Obs	10/16-12/31 Exceed	10/16-12/31 Prop.	1/01-3/15 Obs	1/01-3/15 Exceed	1/01-3/15 Prop.	3/16-6/30 Obs	3/16-6/30 Exceed	3/16-6/30 Prop.
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	1	1.00	1	1	1.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	1	1.00	1	1	1.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01049	LEAD, DISSOLVED	Fresh Acute	82.	0 &	0	0.00												
		Drinking Water	15.	0 &	0	0.00												
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	1	1.00	1	1	1.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	1	1.00	1	1	1.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: HOVE0030

NPS Station ID: HOVE0030 LAT/LON: 37.492781/-108.773616 Agency: 112WRD Date Created: 07/28/90
Location: WOODS CANYON AT 15 ROAD, NR YELLOW JACKET FIPS State/County: 08083 COLORADO/MONTEZUMA
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 372934108462501
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 14080202 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 14080202 RF1 Mile Point: 0.000 Distance from RF1: 17.70 On/Off RF1:
RF3 Index: 14080202021300.00 RF3 Mile Point: 7.10 Distance from RF3: 0.03 On/Off RF3:
Description:

Parameter Inventory for Station: HOVE0030

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	04/06/94-07/13/94	2	0.8	0.8	1.	0.6	0.08	0.283	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/11/90-07/13/94	4	6.5	7.25	13.	3.	23.417	4.839	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	11/15/90-07/13/94	3	602.	601.333	603.	599.	4.333	2.082	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/11/90-07/13/94	3	0.2	0.168	0.3	0.005	0.023	0.15	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/11/90-07/13/94	4	2635.	2375.	2980.	1250.	614300.	783.773	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	11/15/90-07/13/94	3	8.6	8.233	9.5	6.6	2.203	1.484	**	**	**	**
00400	PH (STANDARD UNITS)	04/11/90-07/13/94	4	8.045	7.98	8.13	7.7	0.038	0.194	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	04/11/90-07/13/94	4	8.043	7.944	8.13	7.7	0.04	0.199	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/11/90-07/13/94	4	0.009	0.011	0.02	0.007	0.	0.006	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	04/11/90-07/13/94	4	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	04/11/90-07/13/94	4	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/11/90-07/13/94	4	0.013	0.013	0.013	0.013	0.	0.	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	11/15/90-11/15/90	1	0.08	0.08	0.08	0.08	0.	0.	**	**	**	**
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	11/15/90-11/15/90	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	04/11/90-07/13/94	4	2.15	1.925	3.1	0.3	1.376	1.173	**	**	**	**
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	11/15/90-11/15/90	1	400.	400.	400.	400.	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/15/90-11/15/90	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	04/11/90-07/13/94	4	310.	275.	360.	120.	11833.333	108.781	**	**	**	**
00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	11/15/90-11/15/90	1	18000.	18000.	18000.	18000.	0.	0.	**	**	**	**
00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	11/15/90-11/15/90	1	5400.	5400.	5400.	5400.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	04/11/90-07/13/94	4	145.	130.75	180.	53.	3108.917	55.758	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	04/11/90-07/13/94	4	160.	143.5	180.	74.	2302.333	47.983	**	**	**	**
00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	11/15/90-11/15/90	1	5700.	5700.	5700.	5700.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	04/11/90-07/13/94	4	2.45	2.825	5.	1.4	2.429	1.559	**	**	**	**
00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	11/15/90-11/15/90	1	16000.	16000.	16000.	16000.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	04/11/90-07/13/94	4	125.	109.5	140.	48.	1881.	43.37	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	04/11/90-07/13/94	4	1060.	927.5	1300.	290.	206491.667	454.414	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/15/90-07/13/94	3	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	11/15/90-07/13/94	3	20.	19.333	22.	16.	9.333	3.055	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	04/11/90-11/15/90	2 ##	0.75	0.75	1.	0.5	0.125	0.354	**	**	**	**
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	11/15/90-11/15/90	1	3.3	3.3	3.3	3.3	0.	0.	**	**	**	**
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	11/15/90-11/15/90	1	450.	450.	450.	450.	0.	0.	**	**	**	**
01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	11/15/90-11/15/90	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	04/11/90-11/15/90	2	105.	105.	110.	100.	50.	7.071	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	04/11/90-11/15/90	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	11/15/90-11/15/90	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	11/15/90-11/15/90	1	23.	23.	23.	23.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	04/11/90-11/15/90	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: HOVE0030

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	11/15/90-11/15/90	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	04/11/90-11/15/90	2	1.5	1.5	2.	1.	0.5	0.707	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	11/15/90-11/15/90	1	13.	13.	13.	13.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	04/11/90-11/15/90	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	11/15/90-11/15/90	1	12.	12.	12.	12.	0.	0.	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	11/15/90-11/15/90	1	470.	470.	470.	470.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	04/11/90-11/15/90	2	1.	1.	1.	1.	0.	0.	**	**	**	**
01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	11/15/90-11/15/90	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	11/15/90-11/15/90	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	11/15/90-11/15/90	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	11/15/90-11/15/90	1	160.	160.	160.	160.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	04/11/90-11/15/90	2	7.	7.	8.	6.	2.	1.414	**	**	**	**
01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	11/15/90-11/15/90	1	35.	35.	35.	35.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	04/11/90-11/15/90	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	11/15/90-11/15/90	1	38.	38.	38.	38.	0.	0.	**	**	**	**
01103	TIN IN BOTTOM DEPOSITS (MG/KG AS SN DRY WGT)	11/15/90-11/15/90	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	11/15/90-11/15/90	1	41000.	41000.	41000.	41000.	0.	0.	**	**	**	**
01133	LITHIUM IN BOTTOM DEPOSITS (MG/KG AS LI DRY WGT)	11/15/90-11/15/90	1	24.	24.	24.	24.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	04/11/90-07/13/94	4	4.	4.25	7.	2.	4.25	2.062	**	**	**	**
01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	11/15/90-11/15/90	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	11/15/90-11/15/90	1	1800.	1800.	1800.	1800.	0.	0.	**	**	**	**
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	11/15/90-11/15/90	1	14000.	14000.	14000.	14000.	0.	0.	**	**	**	**
22707	URANIUM, NATURAL IN SEDIMENT (UG/G OF DRY SOLIDS)	11/15/90-11/15/90	1	2.2	2.2	2.2	2.2	0.	0.	**	**	**	**
28011	URANIUM,NATURAL,TOTAL UG/L AS U	04/11/90-11/15/90	2	13.5	13.5	16.	11.	12.5	3.536	**	**	**	**
39251	PCNS IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	11/15/90-11/15/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/15/90-11/15/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	11/15/90-11/15/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	11/15/90-11/15/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/15/90-11/15/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/15/90-11/15/90	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/15/90-11/15/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	11/15/90-11/15/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39389	ENDOSULFAN IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/15/90-11/15/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/15/90-11/15/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	11/15/90-11/15/90	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	11/15/90-11/15/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	11/15/90-11/15/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	11/15/90-11/15/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/15/90-11/15/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39758	MIREX, BOTTOM MATERIAL (UG/KG DRY SOLIDS)	11/15/90-11/15/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/11/90-11/15/90	2	2535.	2535.	2650.	2420.	26450.	162.635	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	04/11/90-11/15/90	2 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	11/15/90-11/15/90	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
75993	URANIUM,NATURAL,1 SIGMA PRC EST,TOTAL,WATER UG/L	04/11/90-11/15/90	2	2.65	2.65	3.6	1.7	1.805	1.344	**	**	**	**
81886	PERTHANE IN SEDIMENT DRY WEIGHT UG/KG	11/15/90-11/15/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
82170	GOLD IN SEDIMENT MG/KG	11/15/90-11/15/90	1 ##	4.	4.	4.	4.	0.	0.	**	**	**	**
82311	YTTERBIUMIN BOTTOM MATERIAL DRY WT. AS YB UG/KG	11/15/90-11/15/90	1	1.	1.	1.	1.	0.	0.	**	**	**	**
82313	THORIUM IN BOTTOM MATERIAL DRY WEIGHT AS TH UG/KG	11/15/90-11/15/90	1	5.4	5.4	5.4	5.4	0.	0.	**	**	**	**
82317	SCANDIUM, IN BOTTOM MATERIAL DRY WT AS SC UG/KG	11/15/90-11/15/90	1	5.	5.	5.	5.	0.	0.	**	**	**	**
82321	TANTALUM IN BOTTOM MATERIAL DRY WT. AS TA UG/KG	11/15/90-11/15/90	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: HOVE0030

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/15 Obs	7/01-10/15 Exceed	7/01-10/15 Prop.	10/16-12/31 Obs	10/16-12/31 Exceed	10/16-12/31 Prop.	1/01-3/15 Obs	1/01-3/15 Exceed	1/01-3/15 Prop.	3/16-6/30 Obs	3/16-6/30 Exceed	3/16-6/30 Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
00400	PH	Fresh Chronic	9.	4	0	0.00	1	0	0.00	1	0	0.00				2	0	0.00
		Other-Lo Lim.	6.5	4	0	0.00	1	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: HOVE0030

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/15 Obs	7/01-10/15 Exceed	7/01-10/15 Prop.	10/16-12/31 Obs	10/16-12/31 Exceed	10/16-12/31 Prop.	1/01-3/15 Obs	1/01-3/15 Exceed	1/01-3/15 Prop.	3/16-6/30 Obs	3/16-6/30 Exceed	3/16-6/30 Prop.
00403	PH, LAB	Fresh Chronic	9.	4	0	0.00	1	0	0.00	1	0	0.00				2	0	0.00
		Other-Lo Lim.	6.5	4	0	0.00	1	0	0.00	1	0	0.00				2	0	0.00
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	1	0	0.00				1	0	0.00						
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	4	0	0.00	1	0	0.00	1	0	0.00				2	0	0.00
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	4	0	0.00	1	0	0.00	1	0	0.00				2	0	0.00
		Drinking Water	250.	4	0	0.00	1	0	0.00	1	0	0.00				2	0	0.00
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	4	4	1.00	1	1	1.00	1	1	1.00				2	2	1.00
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
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
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	2	0	0.00				1	0	0.00				1	0	0.00
		Drinking Water	5.	2	0	0.00				1	0	0.00				1	0	0.00
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	2	0	0.00				1	0	0.00				1	0	0.00
01040	COPPER, DISSOLVED	Fresh Acute	18.	2	0	0.00				1	0	0.00				1	0	0.00
		Drinking Water	1300.	2	0	0.00				1	0	0.00				1	0	0.00
01049	LEAD, DISSOLVED	Fresh Acute	82.	2	0	0.00				1	0	0.00				1	0	0.00
		Drinking Water	15.	2	0	0.00				1	0	0.00				1	0	0.00
01090	ZINC, DISSOLVED	Fresh Acute	120.	2	0	0.00				1	0	0.00				1	0	0.00
		Drinking Water	5000.	2	0	0.00				1	0	0.00				1	0	0.00
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	4	0	0.00	1	0	0.00	1	0	0.00				2	0	0.00
		Drinking Water	50.	4	0	0.00	1	0	0.00	1	0	0.00				2	0	0.00
28011	URANIUM, NATURAL, TOTAL	Drinking Water	20.	2	0	0.00				1	0	0.00				1	0	0.00
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	2	0	0.00				1	0	0.00				1	0	0.00
		Drinking Water	2.	2	0	0.00				1	0	0.00				1	0	0.00

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

Station Inventory for Station: HOVE0031

NPS Station ID: HOVE0031 | LAT/LON: 37.492781/-108.773616 | Agency: 11NPSWRD | Date Created: 09/12/98
Location: WOODS CANYON AT ROAD 15 | FIPS State/County: 08083 COLORADO/MONTEZUMA
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): HOVE_USGS_WC
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 14080202 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 0 | Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER SAN JUAN RIVER | ECO Region:
RF1 Index: 14080202 | RF1 Mile Point: 0.000 | Distance from RF1: 0.20 | On/Off RF1:
RF3 Index: 14080203001600.00 | RF3 Mile Point: 3.26 | Distance from RF3: 0.11 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE WOODS CANYON COLORADO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS LOCATED AT WOODS CANYON AT ROAD 15. THE SAMPLING SITE IS OUTSIDE OF THE HOVENWEEP NATIONAL MONUMENT BOUNDARY BUT IS WITHIN A 10 MILE RADIUS OF THE MONUMENT. THE DATA WERE COLLECTED BY THE U.S. GEOLOGICAL SURVEY IN COOPERATION WITH THE U.S. FISH AND WILDLIFE SERVICE; BUREAU OF RECLAMATION; AND BUREAU OF INDIAN AFFAIRS; AND ARE PRESENTED IN THE USGS WATER-RESOURCES INVESTIGATIONS REPORT NUMBERS 94-4041 AND 97-4008. SELECT DATA FOR THIS SITE WERE PREVIOUSLY UPLOADED TO STORET BY THE USGS UNDER STATION ID 372934108462501. DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (970-225-3516).

Parameter Inventory for Station: HOVE0031

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	04/06/94-07/13/94	2	88.5	88.5	97.	80.	144.5	12.021	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/11/90-07/13/94	4	380.	377.5	406.	344.	665.667	25.801	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	04/11/90-07/13/94	4	1350.	1205.	1600.	520.	237433.333	487.271	**	**	**	**
00931	SODIUM ADSORPTION RATIO	04/11/90-11/15/90	2	2.	2.	2.	2.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	04/11/90-07/13/94	3	0.69	0.553	0.9	0.07	0.186	0.432	**	**	**	**

** - Less than 9 observations ## - 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: HOVE0032

NPS Station ID: HOVE0032 | LAT/LON: 37.413115/-108.774198 | Agency: 11NPSWRD | Date Created: 08/15/98
Location: C24683 | FIPS State/County: 08083 COLORADO/MONTEZUMA
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): HOVE_NURE_17 /1085250
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 14080202 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 0 | Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER SAN JUAN RIVER | ECO Region:
RF1 Index: 14080202 | RF1 Mile Point: 0.000 | Distance from RF1: 0.20 | On/Off RF1:
RF3 Index: 14080203001600.00 | RF3 Mile Point: 3.26 | Distance from RF3: 0.11 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE WOODS CANYON COLORADO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE OF THE HOVENWEEP NATIONAL MONUMENT BOUNDARY. THE SAMPLES WERE FILTERED THROUGH A 0.45 UM MEMBRANE FILTER AND ACIDIFIED TO A PH OF LESS THAN OR EQUAL TO 1 WITH REAGENT GRADE NITRIC ACID. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NATIONAL PARK SERVICE-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: HOVE0032

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/28/77-08/28/77	1	12.1	12.1	12.1	12.1	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/28/77-08/28/77	1	1500.	1500.	1500.	1500.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/28/77-08/28/77	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/28/77-08/28/77	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/28/77-08/28/77	1	0.032	0.032	0.032	0.032	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/28/77-08/28/77	1	152.	152.	152.	152.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/28/77-08/28/77	1	73.3	73.3	73.3	73.3	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	08/28/77-08/28/77	1	112.	112.	112.	112.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	08/28/77-08/28/77	1	127.	127.	127.	127.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	08/28/77-08/28/77	1	45.	45.	45.	45.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/28/77-08/28/77	1	102.	102.	102.	102.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	08/28/77-08/28/77	1 ##	100.	100.	100.	100.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/28/77-08/28/77	1	4661.	4661.	4661.	4661.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	08/28/77-08/28/77	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	08/28/77-08/28/77	1	281.	281.	281.	281.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	08/28/77-08/28/77	1	218.	218.	218.	218.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	08/28/77-08/28/77	1	32.	32.	32.	32.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	08/28/77-08/28/77	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: HOVE0032

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/15 Obs	7/01-10/15 Exceed	7/01-10/15 Prop.	10/16-12/31 Obs	10/16-12/31 Exceed	10/16-12/31 Prop.	1/01-3/15 Obs	1/01-3/15 Exceed	1/01-3/15 Prop.	3/16-6/30 Obs	3/16-6/30 Exceed	3/16-6/30 Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	1	1.00	1	1	1.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	1	1.00	1	1	1.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01049	LEAD, DISSOLVED	Fresh Acute	82.	0 &	0	0.00												
		Drinking Water	15.	0 &	0	0.00												
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	1	1.00	1	1	1.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	1	1.00	1	1	1.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: HOVE0033

NPS Station ID: HOVE0033 LAT/LON: 37.492505/-108.774449 Agency: 11NPSWRD Date Created: 09/12/98
Location: POND ON WOODS CANYON AT ROAD 15 FIPS State/County: 08083 COLORADO/MONTEZUMA
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): HOVE_USGS_WCP
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 14080202 Depth of Water: 0 Aquifer:
Major Basin: COLORADO RIVER Elevation: 0 Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER SAN JUAN RIVER ECO Region:
RF1 Index: 14080202 RF1 Mile Point: 0.000 Distance from RF1: 0.20 On/Off RF1:
RF3 Index: 14080203001600.00 RF3 Mile Point: 3.26 Distance from RF3: 0.11 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE WOODS CANYON COLORADO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS LOCATED AT A POND ON WOODS CANYON AT ROAD 15. THE SAMPLING SITE IS OUTSIDE OF THE HOVENWEEP NATIONAL MONUMENT BOUNDARY BUT IS WITHIN A 10 MILE RADIUS OF THE MONUMENT. THE DATA WERE COLLECTED BY THE U.S. GEOLOGICAL SURVEY IN COOPERATION WITH THE U.S. FISH AND WILDLIFE SERVICE; BUREAU OF RECLAMATION; AND BUREAU OF INDIAN AFFAIRS; AND ARE PRESENTED IN THE USGS WATER-RESOURCES INVESTIGATIONS REPORT NUMBER 97-4008. SELECT DATA FOR THIS SITE WERE PREVIOUSLY UPLOADED TO STORET BY THE USGS UNDER STATION ID 372933108462801. DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (970-225-3516).

Parameter Inventory for Station: HOVE0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/14/94-06/14/94	1	225.	225.	225.	225.	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/14/94-06/14/94	1	406.	406.	406.	406.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/14/94-06/14/94	1	1200.	1200.	1200.	1200.	0.	0.	**	**	**	**

** - Less than 9 observations ## - 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: HOVE0034

NPS Station ID: HOVE0034
LAT/LON: 37.492505/-108.774449
Agency: 112WRD
Date Created: 09/17/94
Location: POND IN WOODS CANYON AT 15 ROAD
FIPS State/County: 08083 COLORADO/MONTEZUMA
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): 372933108462801
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 14080202
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 14080202
RF1 Mile Point: 0.000
Distance from RF1: 0.20
On/Off RF1:
RF3 Index: 14080203001600.00
RF3 Mile Point: 3.26
Distance from RF3: 0.11
On/Off RF3:
Description:

Parameter Inventory for Station: HOVE0034

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/14/94-06/14/94	1	19.	19.	19.	19.	0.	0.	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	06/14/94-06/14/94	1	597.	597.	597.	597.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/14/94-06/14/94	1	2400.	2400.	2400.	2400.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	06/14/94-06/14/94	1	16.1	16.1	16.1	16.1	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	06/14/94-06/14/94	1	8.06	8.06	8.06	8.06	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/14/94-06/14/94	1	8.06	8.06	8.06	8.06	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/14/94-06/14/94	1	0.009	0.009	0.009	0.009	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	06/14/94-06/14/94	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	06/14/94-06/14/94	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/14/94-06/14/94	1	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	06/14/94-06/14/94	1	0.06	0.06	0.06	0.06	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/14/94-06/14/94	1	270.	270.	270.	270.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/14/94-06/14/94	1	130.	130.	130.	130.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	06/14/94-06/14/94	1	160.	160.	160.	160.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	06/14/94-06/14/94	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/14/94-06/14/94	1	93.	93.	93.	93.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	06/14/94-06/14/94	1	890.	890.	890.	890.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	06/14/94-06/14/94	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	06/14/94-06/14/94	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	06/14/94-06/14/94	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	06/14/94-06/14/94	1	3.2	3.2	3.2	3.2	0.	0.	**	**	**	**
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	06/14/94-06/14/94	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: HOVE0034

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/15 Obs	7/01-10/15 Exceed	7/01-10/15 Prop.	10/16-12/31 Obs	10/16-12/31 Exceed	10/16-12/31 Prop.	1/01-3/15 Obs	1/01-3/15 Exceed	1/01-3/15 Prop.	3/16-6/30 Obs	3/16-6/30 Exceed	3/16-6/30 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
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: HOVE0034

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/15 Obs	7/01-10/15 Exceed	7/01-10/15 Prop.	10/16-12/31 Obs	10/16-12/31 Exceed	10/16-12/31 Prop.	1/01-3/15 Obs	1/01-3/15 Exceed	1/01-3/15 Prop.	3/16-6/30 Obs	3/16-6/30 Exceed	3/16-6/30 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	1	1.00										1	1	1.00
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00										1	0	0.00
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00										1	0	0.00
		Drinking Water	50.	1	0	0.00										1	0	0.00

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

Station Inventory for Station: HOVE0035

NPS Station ID: HOVE0035 | LAT/LON: 37.438615/-108.792199 | Agency: 11NPSWRD | Date Created: 08/15/98
Location: C24681 | FIPS State/County: 08083 COLORADO/MONTEZUMA
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): HOVE_NURE_01 /1085249
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 14080202 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 0 | Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER SAN JUAN RIVER | ECO Region:
RF1 Index: 14080202 | RF1 Mile Point: 0.000 | Distance from RF1: 0.20 | On/Off RF1:
RF3 Index: 14080203001600.00 | RF3 Mile Point: 3.26 | Distance from RF3: 0.11 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE WOODS CANYON COLORADO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE OF THE HOVENWEEP NATIONAL MONUMENT BOUNDARY. THE SAMPLES WERE FILTERED THROUGH A 0.45 UM MEMBRANE FILTER AND ACIDIFIED TO A PH OF LESS THAN OR EQUAL TO 1 WITH REAGENT GRADE NITRIC ACID. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NATIONAL PARK SERVICE-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: HOVE0035

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/28/77-08/28/77	1	22.2	22.2	22.2	22.2	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/28/77-08/28/77	1	1650.	1650.	1650.	1650.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/28/77-08/28/77	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/28/77-08/28/77	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/28/77-08/28/77	1	0.016	0.016	0.016	0.016	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/28/77-08/28/77	1	167.	167.	167.	167.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/28/77-08/28/77	1	100.	100.	100.	100.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	08/28/77-08/28/77	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	08/28/77-08/28/77	1	116.	116.	116.	116.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	08/28/77-08/28/77	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/28/77-08/28/77	1	248.	248.	248.	248.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	08/28/77-08/28/77	1 ##	100.	100.	100.	100.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/28/77-08/28/77	1	103.	103.	103.	103.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	08/28/77-08/28/77	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	08/28/77-08/28/77	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	08/28/77-08/28/77	1	222.	222.	222.	222.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	08/28/77-08/28/77	1	5.	5.	5.	5.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	08/28/77-08/28/77	1	1.72	1.72	1.72	1.72	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: HOVE0035

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/15 Obs	7/01-10/15 Exceed	7/01-10/15 Prop.	10/16-12/31 Obs	10/16-12/31 Exceed	10/16-12/31 Prop.	1/01-3/15 Obs	1/01-3/15 Exceed	1/01-3/15 Prop.	3/16-6/30 Obs	3/16-6/30 Exceed	3/16-6/30 Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	1	1.00	1	1	1.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01049	LEAD, DISSOLVED	Fresh Acute	82.	0 &	0	0.00												
		Drinking Water	15.	0 &	0	0.00												
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	1	1.00	1	1	1.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: HOVE0036

NPS Station ID: HOVE0036 | LAT/LON: 37.342504/-108.804199 | Agency: 11NPSWRD | Date Created: 08/15/98
Location: C24553 | FIPS State/County: 08083 COLORADO/MONTEZUMA
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): HOVE_NURE_10 /1085210
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 14080202 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 0 | Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER SAN JUAN RIVER | ECO Region:
RF1 Index: 14080202 | RF1 Mile Point: 0.000 | Distance from RF1: 0.20 | On/Off RF1:
RF3 Index: 14080203001600.00 | RF3 Mile Point: 3.26 | Distance from RF3: 0.11 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE BATTLE ROCK COLORADO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE OF THE HOVENWEEP NATIONAL MONUMENT BOUNDARY. THE SAMPLES WERE FILTERED THROUGH A 0.45 UM MEMBRANE FILTER AND ACIDIFIED TO A PH OF LESS THAN OR EQUAL TO 1 WITH REAGENT GRADE NITRIC ACID. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NATIONAL PARK SERVICE-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: HOVE0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/01/77-09/01/77	1	3350.	3350.	3350.	3350.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	09/01/77-09/01/77	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/01/77-09/01/77	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/01/77-09/01/77	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/01/77-09/01/77	1	253.	253.	253.	253.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/01/77-09/01/77	1	191.	191.	191.	191.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/01/77-09/01/77	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	09/01/77-09/01/77	1	181.	181.	181.	181.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	09/01/77-09/01/77	1	29.	29.	29.	29.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	09/01/77-09/01/77	1	143.	143.	143.	143.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	09/01/77-09/01/77	1 ##	100.	100.	100.	100.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/01/77-09/01/77	1	55.	55.	55.	55.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	09/01/77-09/01/77	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	09/01/77-09/01/77	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	09/01/77-09/01/77	1	322.	322.	322.	322.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	09/01/77-09/01/77	1	25.	25.	25.	25.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	09/01/77-09/01/77	1	1.77	1.77	1.77	1.77	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: HOVE0036

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/15 Obs	7/01-10/15 Exceed	7/01-10/15 Prop.	10/16-12/31 Obs	10/16-12/31 Exceed	10/16-12/31 Prop.	1/01-3/15 Obs	1/01-3/15 Exceed	1/01-3/15 Prop.	3/16-6/30 Obs	3/16-6/30 Exceed	3/16-6/30 Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	1	1.00	1	1	1.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01049	LEAD, DISSOLVED	Fresh Acute	82.	0 &	0	0.00												
		Drinking Water	15.	0 &	0	0.00												
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	1	1.00	1	1	1.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: HOVE0037

NPS Station ID: HOVE0037
LAT/LON: 37.340559/-108.805005
Agency: 11USBRUC
Date Created: 05/15/82
Location: MCELMO CREEK BELOW CORTEZ,CO
FIPS State/County: 08083 COLORADO/MONTEZUMA
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): DRMC0070
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 14080202
Depth of Water: 0
Aquifer:
Major Basin: COLORADO RIVER
Elevation: 0
Water Body Id:
Minor Basin: MIDDLE COLORADO-SAN JUAN RIVER
ECO Region:
RF1 Index: 14080202006
RF1 Mile Point: 7.230
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 14080202000800.00
RF3 Mile Point: 0.53
Distance from RF3: 0.03
On/Off RF3:
Description:

Parameter Inventory for Station: HOVE0037

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: HOVE0038

NPS Station ID: HOVE0038
LAT/LON: 37.340559/-108.805005
Agency: 11USBRUC
Date Created: 12/12/81
Location: MCELMO CREEK BELOW CORTEZ,CO
FIPS State/County: 08083 COLORADO/MONTEZUMA
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BRUCDURMCU070
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 14080202
Depth of Water: 0
Aquifer:
Major Basin: COLORADO RIVER
Elevation: 0
Water Body Id:
Minor Basin: MIDDLE COLORADO-SAN JUAN RIVER
ECO Region:
RF1 Index: 14080202006
RF1 Mile Point: 7.230
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 14080202000704.20
RF3 Mile Point: 4.20
Distance from RF3: 0.03
On/Off RF3:
Description:

Parameter Inventory for Station: HOVE0038

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/06/72-09/16/80	251	12.	11.283	31.	0.	67.236	8.2	0.	3.	18.	22.
00060	FLOW, STREAM, MEAN DAILY CFS	07/06/72-09/16/80	251	29.	43.151	560.	0.08	3522.717	59.352	4.	15.	50.	83.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/06/72-09/16/80	259	3000.	2897.077	3980.	1330.	399831.296	632.322	1990.	2340.	3451.	3670.
00400	PH (STANDARD UNITS)	07/06/72-09/16/80	258	8.	7.975	8.5	7.4	0.026	0.161	7.8	7.9	8.1	8.2
00400	CONVERTED PH (STANDARD UNITS)	07/06/72-09/16/80	258	8.	7.944	8.5	7.4	0.027	0.164	7.8	7.9	8.1	8.2
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/06/72-09/16/80	258	0.01	0.011	0.04	0.003	0.	0.005	0.006	0.008	0.013	0.016
00440	BICARBONATE ION (MG/L AS HCO3)	07/06/72-09/16/80	238	5.	4.769	7.	2.	0.946	0.973	4.	4.	5.	6.
00445	CARBONATE ION (MG/L AS CO3)	07/06/72-09/16/80	238	0.	0.015	1.	0.	0.009	0.092	0.	0.	0.	0.
00500	RESIDUE, TOTAL (MG/L)	07/06/72-09/16/80	259	2780.	2693.629	4050.	1050.	495219.397	703.718	1700.	2058.	3310.	3560.
00916	CALCIUM, TOTAL (MG/L AS CA)	07/06/72-09/16/80	238	14.75	14.453	28.9	5.4	9.593	3.097	10.5	11.7	16.7	18.1
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/06/72-09/16/80	238	15.15	14.941	23.6	4.4	18.91	4.349	8.99	10.975	18.45	20.4
00930	SODIUM, DISSOLVED (MG/L AS NA)	07/06/72-09/16/80	238	9.	8.681	13.6	1.6	8.001	2.829	4.7	6.2	11.2	12.21
00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/06/72-09/16/80	238	0.1	0.109	0.4	0.	0.002	0.046	0.1	0.1	0.1	0.1
00940	CHLORIDE,TOTAL IN WATER MG/L	07/06/72-09/16/80	238	1.	1.487	19.	0.6	1.599	1.264	0.9	1.	2.	2.
00946	SULFATE, DISSOLVED (MG/L AS SO4)	07/06/72-09/16/80	238	33.7	32.065	47.9	11.7	81.014	9.001	19.48	23.475	39.9	43.21

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

EPA Water Quality Criteria Analysis for Station: HOVE0038

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/15 Obs	7/01-10/15 Exceed	7/01-10/15 Prop.	10/16-12/31 Obs	10/16-12/31 Exceed	10/16-12/31 Prop.	1/01-3/15 Obs	1/01-3/15 Exceed	1/01-3/15 Prop.	3/16-6/30 Obs	3/16-6/30 Exceed	3/16-6/30 Prop.
00400	PH	Fresh Chronic	9.	258	0	0.00	90	0	0.00	47	0	0.00	49	0	0.00	72	0	0.00
		Other-Lo Lim.	6.5	258	0	0.00	90	0	0.00	47	0	0.00	49	0	0.00	72	0	0.00
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	238	0	0.00	78	0	0.00	44	0	0.00	48	0	0.00	68	0	0.00
		Drinking Water	250.	238	0	0.00	78	0	0.00	44	0	0.00	48	0	0.00	68	0	0.00
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	238	0	0.00	78	0	0.00	44	0	0.00	48	0	0.00	68	0	0.00

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

Annual Analysis for 1972 - Station HOVE0038

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/06/72-09/16/80	9	4.	9.667	22.	0.	104.25	10.21	0.	0.5	21.	22.
00060p	FLOW, STREAM, MEAN DAILY CFS	07/06/72-09/16/80	11	34.	31.582	68.	0.4	467.564	21.623	0.52	17.	42.	66.8
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/06/72-09/16/80	11	3460.	3258.182	3670.	2440.	207576.364	455.605	2462.	2780.	3630.	3668.
00400p	PH (STANDARD UNITS)	07/06/72-09/16/80	11	7.9	7.891	8.3	7.7	0.027	0.164	7.7	7.8	7.9	8.24
00400p	CONVERTED PH (STANDARD UNITS)	07/06/72-09/16/80	11	7.9	7.867	8.3	7.7	0.028	0.166	7.7	7.8	7.9	8.24
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/06/72-09/16/80	11	0.013	0.014	0.02	0.005	0.	0.004	0.006	0.013	0.016	0.02
00440p	BICARBONATE ION (MG/L AS HCO3)	07/06/72-09/16/80	11	5.	4.909	6.	4.	0.291	0.539	4.	5.	5.	5.8
00445p	CARBONATE ION (MG/L AS CO3)	07/06/72-09/16/80	11	0.	0.027	0.3	0.	0.008	0.09	0.	0.	0.	0.24
00500p	RESIDUE, TOTAL (MG/L)	07/06/72-09/16/80	11	3280.	3104.545	3570.	2200.	252567.273	502.561	2224.	2580.	3480.	3568.
00916p	CALCIUM, TOTAL (MG/L AS CA)	07/06/72-09/16/80	11	16.9	16.227	19.4	13.4	4.098	2.024	13.44	13.7	17.9	19.1
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/06/72-09/16/80	11	19.2	17.782	21.2	12.	11.134	3.337	12.04	14.5	20.2	21.12
00930p	SODIUM, DISSOLVED (MG/L AS NA)	07/06/72-09/16/80	11	10.7	9.809	11.3	6.3	3.479	1.865	6.38	8.3	11.2	11.3
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	07/06/72-09/16/80	11	0.1	0.109	0.2	0.1	0.001	0.03	0.1	0.1	0.1	0.18
00940p	CHLORIDE,TOTAL IN WATER MG/L	07/06/72-09/16/80	11	2.	1.727	2.	1.	0.218	0.467	1.	1.	2.	2.
00946p	SULFATE, DISSOLVED (MG/L AS SO4)	07/06/72-09/16/80	11	38.5	37.327	44.5	26.5	41.81	6.466	26.58	30.6	42.3	44.14

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

Annual Analysis for 1973 - Station HOVE0038

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/06/72-09/16/80	57	9.	9.316	21.	0.	47.398	6.885	0.	3.	16.5	18.2
00060p	FLOW, STREAM, MEAN DAILY CFS	07/06/72-09/16/80	57	50.	76.877	450.	20.	5620.003	74.967	26.	36.5	83.	152.4
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/06/72-09/16/80	57	2800.	2794.386	3980.	1840.	415500.063	644.593	1934.	2170.	3340.	3732.
00400p	PH (STANDARD UNITS)	07/06/72-09/16/80	57	8.	7.932	8.2	7.5	0.018	0.133	7.8	7.9	8.	8.1
00400p	CONVERTED PH (STANDARD UNITS)	07/06/72-09/16/80	57	8.	7.91	8.2	7.5	0.018	0.134	7.8	7.9	8.	8.1
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/06/72-09/16/80	57	0.01	0.012	0.032	0.006	0.	0.004	0.008	0.01	0.013	0.016
00440p	BICARBONATE ION (MG/L AS HCO3)	07/06/72-09/16/80	57	4.	4.526	7.	2.	1.075	1.037	3.	4.	5.	6.
00445p	CARBONATE ION (MG/L AS CO3)	07/06/72-09/16/80	57	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00500p	RESIDUE, TOTAL (MG/L)	07/06/72-09/16/80	57	2590.	2595.439	4050.	1580.	516132.393	718.424	1680.	1900.	3170.	3672.
00916p	CALCIUM, TOTAL (MG/L AS CA)	07/06/72-09/16/80	57	14.2	14.088	20.4	10.1	8.716	2.952	10.48	11.	16.25	18.5
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/06/72-09/16/80	57	13.7	14.347	23.6	7.8	21.194	4.604	8.3	10.05	17.9	21.5
00930p	SODIUM, DISSOLVED (MG/L AS NA)	07/06/72-09/16/80	57	8.3	8.188	13.	4.	7.53	2.744	4.5	5.4	10.75	11.7
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	07/06/72-09/16/80	57	0.1	0.098	0.2	0.	0.001	0.023	0.1	0.1	0.1	0.1
00940p	CHLORIDE,TOTAL IN WATER MG/L	07/06/72-09/16/80	57	1.	1.335	2.	0.7	0.267	0.516	0.88	1.	2.	2.
00946p	SULFATE, DISSOLVED (MG/L AS SO4)	07/06/72-09/16/80	57	30.6	30.809	47.4	17.6	83.231	9.123	18.88	21.8	37.7	44.16

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

Annual Analysis for 1974 - Station HOVE0038

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/06/72-09/16/80	49	9.	10.408	27.	0.	77.288	8.791	0.	0.5	19.	22.
00060p	FLOW, STREAM, MEAN DAILY CFS	07/06/72-09/16/80	54	21.	35.739	560.	0.9	6306.251	79.412	2.	6.	29.5	59.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/06/72-09/16/80	54	3095.	3075.556	3950.	2050.	302919.497	550.381	2375.	2565.	3550.	3820.
00400p	PH (STANDARD UNITS)	07/06/72-09/16/80	54	8.	7.985	8.3	7.6	0.018	0.132	7.8	7.9	8.025	8.2
00400p	CONVERTED PH (STANDARD UNITS)	07/06/72-09/16/80	54	8.	7.965	8.3	7.6	0.018	0.134	7.8	7.9	8.025	8.2
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/06/72-09/16/80	54	0.01	0.011	0.025	0.005	0.	0.004	0.006	0.009	0.013	0.016
00440p	BICARBONATE ION (MG/L AS HCO3)	07/06/72-09/16/80	54	5.	4.648	7.	3.	0.912	0.955	3.	4.	5.	6.
00445p	CARBONATE ION (MG/L AS CO3)	07/06/72-09/16/80	54	0.	0.013	0.7	0.	0.009	0.095	0.	0.	0.	0.
00500p	RESIDUE, TOTAL (MG/L)	07/06/72-09/16/80	54	2905.	2837.778	3860.	1730.	389708.176	624.266	2065.	2247.5	3420.	3705.
00916p	CALCIUM, TOTAL (MG/L AS CA)	07/06/72-09/16/80	54	15.15	14.711	19.9	5.4	9.012	3.002	11.15	12.25	17.075	18.3
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/06/72-09/16/80	54	16.75	16.285	22.4	9.5	14.135	3.76	11.45	13.	19.6	21.45
00930p	SODIUM, DISSOLVED (MG/L AS NA)	07/06/72-09/16/80	54	9.65	9.691	13.6	5.5	5.58	2.362	6.25	7.3	11.9	12.75
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	07/06/72-09/16/80	54	0.1	0.111	0.3	0.	0.003	0.05	0.1	0.1	0.1	0.2

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

Annual Analysis for 1974 - Station HOVE0038

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00940p	CHLORIDE,TOTAL IN WATER MG/L	07/06/72-09/16/80	54	1.5	1.537	4.	1.	0.367	0.605	1.	1.	2.	2.
00946p	SULFATE, DISSOLVED (MG/L AS SO4)	07/06/72-09/16/80	54	36.4	34.7	47.9	19.3	59.126	7.689	24.55	27.65	41.2	44.7

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

Annual Analysis for 1975 - Station HOVE0038

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/06/72-09/16/80	50	12.	10.62	22.	0.	50.036	7.074	1.	3.75	17.	19.9
00060p	FLOW, STREAM, MEAN DAILY CFS	07/06/72-09/16/80	50	33.	38.82	124.	4.	603.579	24.568	13.3	22.75	49.25	68.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/06/72-09/16/80	50	2880.	2735.8	3810.	1330.	495330.98	703.798	1831.	2085.	3375.	3587.
00400p	PH (STANDARD UNITS)	07/06/72-09/16/80	50	8.	8.02	8.3	7.6	0.024	0.154	7.8	7.975	8.1	8.2
00400p	CONVERTED PH (STANDARD UNITS)	07/06/72-09/16/80	50	8.	7.992	8.3	7.6	0.024	0.156	7.8	7.975	8.1	8.2
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/06/72-09/16/80	50	0.01	0.01	0.025	0.005	0.	0.004	0.006	0.008	0.011	0.016
00440p	BICARBONATE ION (MG/L AS HCO3)	07/06/72-09/16/80	50	5.	4.76	7.	3.	0.88	0.938	4.	4.	5.	6.
00445p	CARBONATE ION (MG/L AS CO3)	07/06/72-09/16/80	50	0.	0.024	0.4	0.	0.008	0.087	0.	0.	0.	0.
00500p	RESIDUE, TOTAL (MG/L)	07/06/72-09/16/80	50	2680.	2515.2	3650.	1050.	601294.857	775.432	1542.	1790.	3222.5	3457.
00916p	CALCIUM, TOTAL (MG/L AS CA)	07/06/72-09/16/80	50	14.15	13.892	20.3	7.3	9.438	3.072	9.81	11.15	16.7	17.49
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/06/72-09/16/80	50	14.95	14.092	20.8	4.4	21.765	4.665	8.61	9.6	18.2	20.4
00930p	SODIUM, DISSOLVED (MG/L AS NA)	07/06/72-09/16/80	50	8.3	8.122	13.3	3.6	9.593	3.097	4.32	5.3	11.05	12.15
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	07/06/72-09/16/80	50	0.1	0.102	0.2	0.1	0.	0.014	0.1	0.1	0.1	0.1
00940p	CHLORIDE,TOTAL IN WATER MG/L	07/06/72-09/16/80	50	1.	1.344	2.	0.6	0.302	0.549	0.8	0.9	2.	2.
00946p	SULFATE, DISSOLVED (MG/L AS SO4)	07/06/72-09/16/80	50	32.3	30.424	45.3	11.7	92.249	9.605	18.75	21.475	39.15	42.95

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Annual Analysis for 1976 - Station HOVE0038

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/06/72-09/16/80	21	16.	12.429	24.	0.	65.257	8.078	1.2	3.5	19.	22.6
00060p	FLOW, STREAM, MEAN DAILY CFS	07/06/72-09/16/80	21	22.	24.238	64.	4.	245.69	15.675	4.	11.	35.5	40.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/06/72-09/16/80	21	2920.	2798.571	3590.	1990.	327992.857	572.707	2002.	2250.	3395.	3548.
00400p	PH (STANDARD UNITS)	07/06/72-09/16/80	21	7.9	7.924	8.1	7.7	0.013	0.114	7.8	7.85	8.	8.1
00400p	CONVERTED PH (STANDARD UNITS)	07/06/72-09/16/80	21	7.9	7.91	8.1	7.7	0.013	0.114	7.8	7.85	8.	8.1
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/06/72-09/16/80	21	0.013	0.012	0.02	0.008	0.	0.003	0.008	0.01	0.014	0.016
00440p	BICARBONATE ION (MG/L AS HCO3)	07/06/72-09/16/80	21	5.	5.143	7.	4.	0.729	0.854	4.	5.	5.5	6.8
00445p	CARBONATE ION (MG/L AS CO3)	07/06/72-09/16/80	21	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00500p	RESIDUE, TOTAL (MG/L)	07/06/72-09/16/80	21	2690.	2602.857	3550.	1680.	427671.429	653.966	1704.	1955.	3250.	3468.
00916p	CALCIUM, TOTAL (MG/L AS CA)	07/06/72-09/16/80	21	14.8	14.529	19.3	10.	8.173	2.859	10.28	11.8	16.4	18.66
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/06/72-09/16/80	21	15.2	14.629	20.8	9.2	16.303	4.038	9.24	10.75	18.8	20.16
00930p	SODIUM, DISSOLVED (MG/L AS NA)	07/06/72-09/16/80	21	9.	8.505	12.2	5.	6.359	2.522	5.3	6.1	11.2	11.94
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	07/06/72-09/16/80	21	0.1	0.105	0.3	0.	0.002	0.05	0.1	0.1	0.1	0.1
00940p	CHLORIDE,TOTAL IN WATER MG/L	07/06/72-09/16/80	21	1.	1.319	2.	0.8	0.246	0.496	0.92	1.	2.	2.
00946p	SULFATE, DISSOLVED (MG/L AS SO4)	07/06/72-09/16/80	21	33.8	31.686	43.8	19.6	73.493	8.573	19.78	23.6	39.95	43.52

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Annual Analysis for 1977 - Station HOVE0038

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/06/72-09/16/80	29	18.	15.483	31.	0.	107.044	10.346	0.	3.	23.5	29.
00060p	FLOW, STREAM, MEAN DAILY CFS	07/06/72-09/16/80	30	4.	8.986	57.	0.08	152.882	12.365	0.3	0.575	15.25	25.5
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/06/72-09/16/80	30	3451.	3294.667	3940.	2232.	159834.161	399.793	2721.	3067.75	3546.	3735.5

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

Annual Analysis for 1977 - Station HOVE0038

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400p	PH (STANDARD UNITS)	07/06/72-09/16/80	29	8.	8.	8.3	7.5	0.037	0.193	7.7	7.9	8.2	8.2
00400p	CONVERTED PH (STANDARD UNITS)	07/06/72-09/16/80	29	8.	7.954	8.3	7.5	0.039	0.198	7.7	7.9	8.2	8.2
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/06/72-09/16/80	29	0.01	0.011	0.032	0.005	0.	0.006	0.006	0.006	0.013	0.02
00440p	BICARBONATE ION (MG/L AS HCO3)	07/06/72-09/16/80	13	5.	5.308	7.	3.	1.731	1.316	3.4	4.	6.5	7.
00445p	CARBONATE ION (MG/L AS CO3)	07/06/72-09/16/80	13	0.	0.077	1.	0.	0.077	0.277	0.	0.	0.	0.6
00500p	RESIDUE, TOTAL (MG/L)	07/06/72-09/16/80	30	3320.	3179.6	3892.	2058.	202055.007	449.505	2459.6	2854.5	3482.	3663.
00916p	CALCIUM, TOTAL (MG/L AS CA)	07/06/72-09/16/80	13	16.7	17.277	28.9	12.9	14.727	3.838	13.74	15.2	17.8	25.06
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/06/72-09/16/80	13	18.6	17.485	20.4	13.1	6.725	2.593	13.38	15.2	19.95	20.32
00930p	SODIUM, DISSOLVED (MG/L AS NA)	07/06/72-09/16/80	13	12.	11.354	13.	9.	2.381	1.543	9.12	9.9	13.	13.
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	07/06/72-09/16/80	13	0.1	0.123	0.4	0.	0.009	0.093	0.04	0.1	0.1	0.32
00940p	CHLORIDE,TOTAL IN WATER MG/L	07/06/72-09/16/80	13	2.	1.769	2.	1.	0.192	0.439	1.	1.5	2.	2.
00946p	SULFATE, DISSOLVED (MG/L AS SO4)	07/06/72-09/16/80	13	41.3	39.054	47.2	28.8	29.023	5.387	30.48	34.1	42.6	46.

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Annual Analysis for 1978 - Station HOVE0038

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/06/72-09/16/80	12	14.5	14.333	27.	2.	54.97	7.414	3.2	10.	20.	26.4
00060p	FLOW, STREAM, MEAN DAILY CFS	07/06/72-09/16/80	7	16.	16.143	36.	1.	194.476	13.945	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/06/72-09/16/80	12	3036.5	2771.917	3493.	1770.	382816.265	618.721	1822.2	2052.25	3240.	3456.1
00400p	PH (STANDARD UNITS)	07/06/72-09/16/80	12	8.05	8.033	8.3	7.8	0.037	0.192	7.8	7.825	8.2	8.3
00400p	CONVERTED PH (STANDARD UNITS)	07/06/72-09/16/80	12	8.047	7.995	8.3	7.8	0.039	0.196	7.8	7.825	8.2	8.3
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/06/72-09/16/80	12	0.009	0.01	0.016	0.005	0.	0.004	0.005	0.006	0.015	0.016
00440p	BICARBONATE ION (MG/L AS HCO3)	07/06/72-09/16/80	8	5.	4.625	6.	3.	1.125	1.061	**	**	**	**
00445p	CARBONATE ION (MG/L AS CO3)	07/06/72-09/16/80	8	0.	0.	0.	0.	0.	0.	**	**	**	**
00500p	RESIDUE, TOTAL (MG/L)	07/06/72-09/16/80	12	2846.	2568.667	3384.	1470.	456062.788	675.324	1528.2	1788.	3090.	3322.8
00916p	CALCIUM, TOTAL (MG/L AS CA)	07/06/72-09/16/80	8	15.5	14.275	17.1	8.5	8.965	2.994	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/06/72-09/16/80	8	16.65	14.913	18.2	8.3	13.087	3.618	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	07/06/72-09/16/80	8	9.7	8.762	11.4	4.6	5.068	2.251	**	**	**	**
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	07/06/72-09/16/80	8	0.1	0.1	0.2	0.	0.003	0.053	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	07/06/72-09/16/80	8	1.	1.325	2.	0.8	0.319	0.565	**	**	**	**
00946p	SULFATE, DISSOLVED (MG/L AS SO4)	07/06/72-09/16/80	8	34.85	32.013	39.5	18.2	57.593	7.589	**	**	**	**

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

Annual Analysis for 1979 - Station HOVE0038

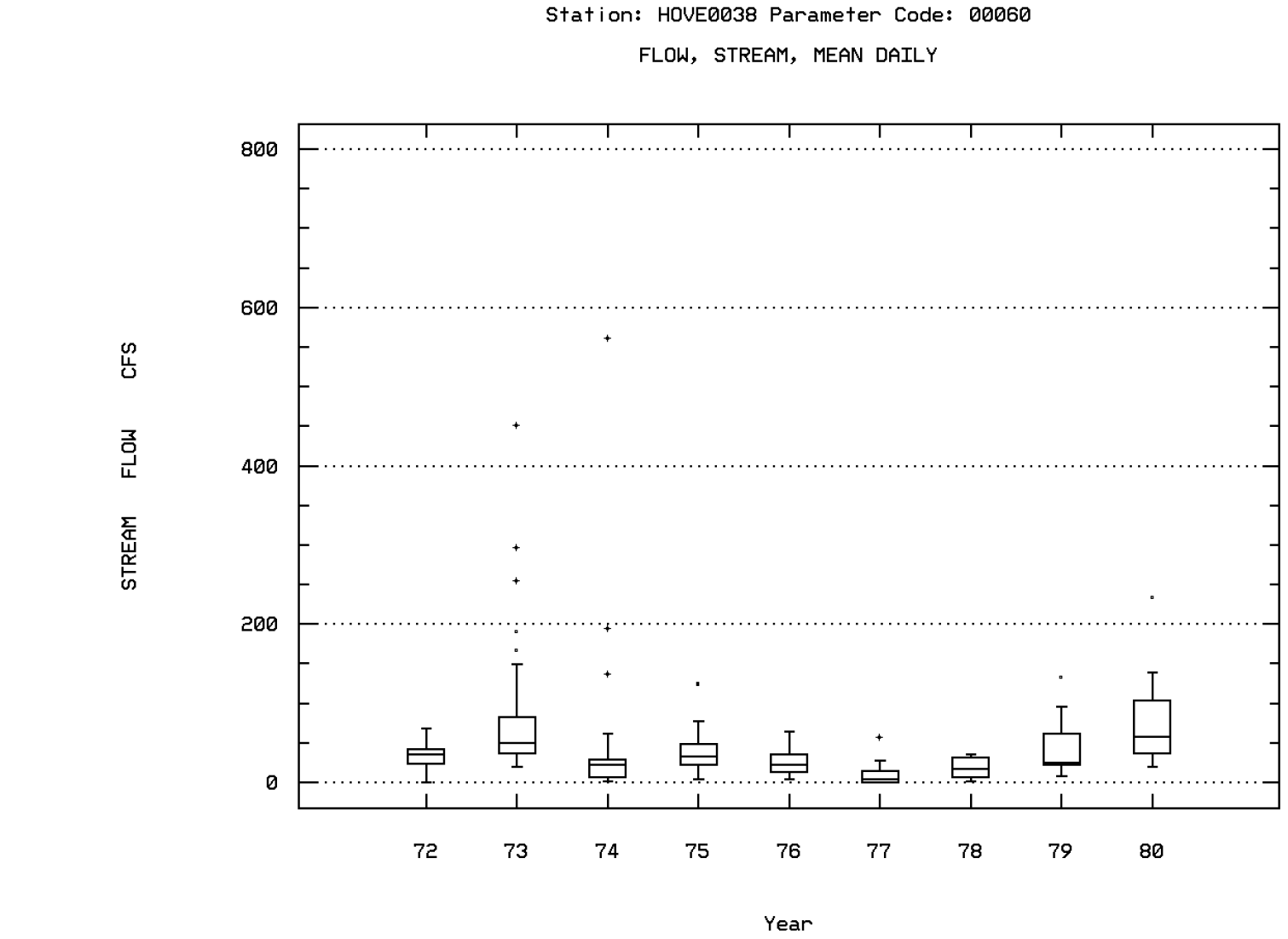
Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/06/72-09/16/80	13	11.	10.538	22.	0.	60.603	7.785	0.	2.5	17.	21.6
00060p	FLOW, STREAM, MEAN DAILY CFS	07/06/72-09/16/80	10	25.5	45.9	132.	8.	1605.878	40.073	8.7	21.	69.75	128.4
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/06/72-09/16/80	13	2980.	2726.923	3410.	1910.	303573.077	550.975	1942.	2090.	3180.	3370.
00400p	PH (STANDARD UNITS)	07/06/72-09/16/80	13	8.	7.962	8.5	7.4	0.079	0.281	7.44	7.85	8.1	8.38
00400p	CONVERTED PH (STANDARD UNITS)	07/06/72-09/16/80	13	8.	7.87	8.5	7.4	0.088	0.297	7.44	7.85	8.1	8.38
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/06/72-09/16/80	13	0.01	0.013	0.04	0.003	0.	0.01	0.004	0.008	0.014	0.037
00440p	BICARBONATE ION (MG/L AS HCO3)	07/06/72-09/16/80	13	5.	5.154	6.	4.	0.308	0.555	4.4	5.	5.5	6.
00445p	CARBONATE ION (MG/L AS CO3)	07/06/72-09/16/80	13	0.	0.023	0.3	0.	0.007	0.083	0.	0.	0.	0.18
00500p	RESIDUE, TOTAL (MG/L)	07/06/72-09/16/80	13	2700.	2483.692	3150.	1580.	337633.897	581.063	1632.	1835.	3044.	3126.
00916p	CALCIUM, TOTAL (MG/L AS CA)	07/06/72-09/16/80	13	15.5	14.623	18.3	10.4	7.307	2.703	10.44	11.8	16.7	18.06
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/06/72-09/16/80	13	14.6	13.469	18.4	8.3	12.184	3.491	8.58	9.45	16.15	18.16
00930p	SODIUM, DISSOLVED (MG/L AS NA)	07/06/72-09/16/80	13	9.	7.769	10.7	2.4	6.997	2.645	3.2	5.3	10.	10.54
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	07/06/72-09/16/80	13	0.1	0.154	0.4	0.1	0.008	0.088	0.1	0.1	0.2	0.32
00940p	CHLORIDE,TOTAL IN WATER MG/L	07/06/72-09/16/80	13	1.	1.362	2.	0.7	0.283	0.532	0.82	1.	2.	2.
00946p	SULFATE, DISSOLVED (MG/L AS SO4)	07/06/72-09/16/80	13	33.7	29.992	39.	17.6	59.499	7.714	18.4	21.5	36.75	38.76

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

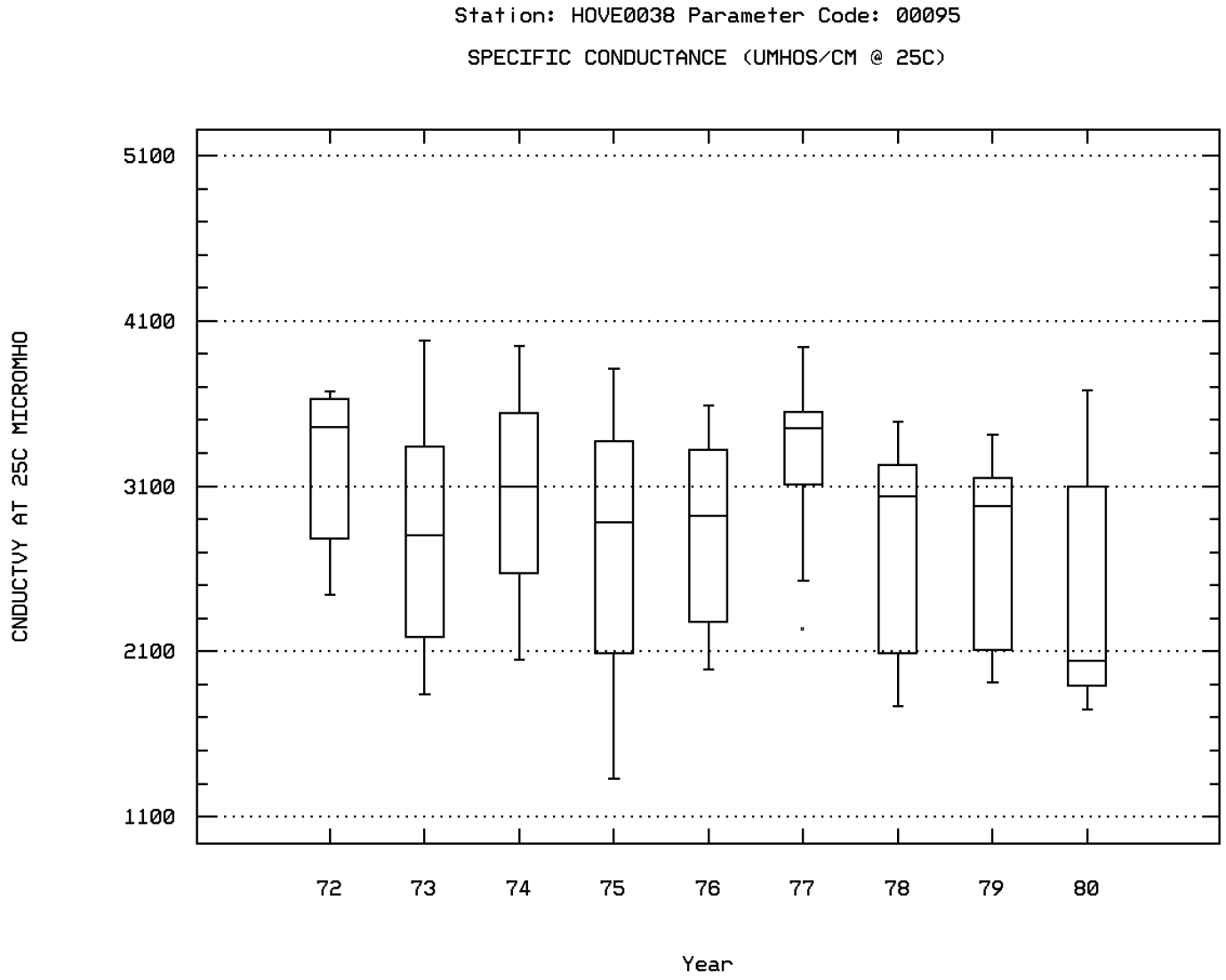
Annual Analysis for 1980 - Station HOVE0038

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/06/72-09/16/80	11	16.	14.	24.	4.	48.2	6.943	4.	6.	18.	23.8
00060p	FLOW, STREAM, MEAN DAILY CFS	07/06/72-09/16/80	11	58.	80.	233.	20.	3965.	62.968	20.4	37.	104.	214.2
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/06/72-09/16/80	11	2040.	2366.364	3680.	1750.	477305.455	690.873	1764.	1890.	3100.	3626.
00400p	PH (STANDARD UNITS)	07/06/72-09/16/80	11	8.	8.009	8.3	7.8	0.021	0.145	7.82	7.9	8.1	8.28
00400p	CONVERTED PH (STANDARD UNITS)	07/06/72-09/16/80	11	8.	7.989	8.3	7.8	0.021	0.146	7.82	7.9	8.1	8.28
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/06/72-09/16/80	11	0.01	0.01	0.016	0.005	0.	0.003	0.005	0.008	0.013	0.015
00440p	BICARBONATE ION (MG/L AS HCO3)	07/06/72-09/16/80	11	5.	4.818	6.	3.	0.964	0.982	3.2	4.	6.	6.
00445p	CARBONATE ION (MG/L AS CO3)	07/06/72-09/16/80	11	0.	0.009	0.1	0.	0.001	0.03	0.	0.	0.	0.08
00500p	RESIDUE, TOTAL (MG/L)	07/06/72-09/16/80	11	1750.	2127.273	3590.	1430.	607061.818	779.142	1448.	1590.	2970.	3536.
00916p	CALCIUM, TOTAL (MG/L AS CA)	07/06/72-09/16/80	11	10.5	12.309	17.9	9.9	9.711	3.116	9.96	10.3	16.5	17.7
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/06/72-09/16/80	11	9.3	11.791	21.7	7.4	25.735	5.073	7.56	8.4	17.3	21.2
00930p	SODIUM, DISSOLVED (MG/L AS NA)	07/06/72-09/16/80	11	4.8	5.882	12.6	1.6	10.962	3.311	2.02	3.9	6.3	12.4
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	07/06/72-09/16/80	11	0.1	0.127	0.2	0.1	0.002	0.047	0.1	0.1	0.2	0.2
00940p	CHLORIDE,TOTAL IN WATER MG/L	07/06/72-09/16/80	11	1.	2.691	19.	0.8	29.361	5.419	0.82	0.9	1.	15.6
00946p	SULFATE, DISSOLVED (MG/L AS SO4)	07/06/72-09/16/80	11	19.5	22.782	43.3	12.6	98.63	9.931	13.3	17.3	23.4	42.78

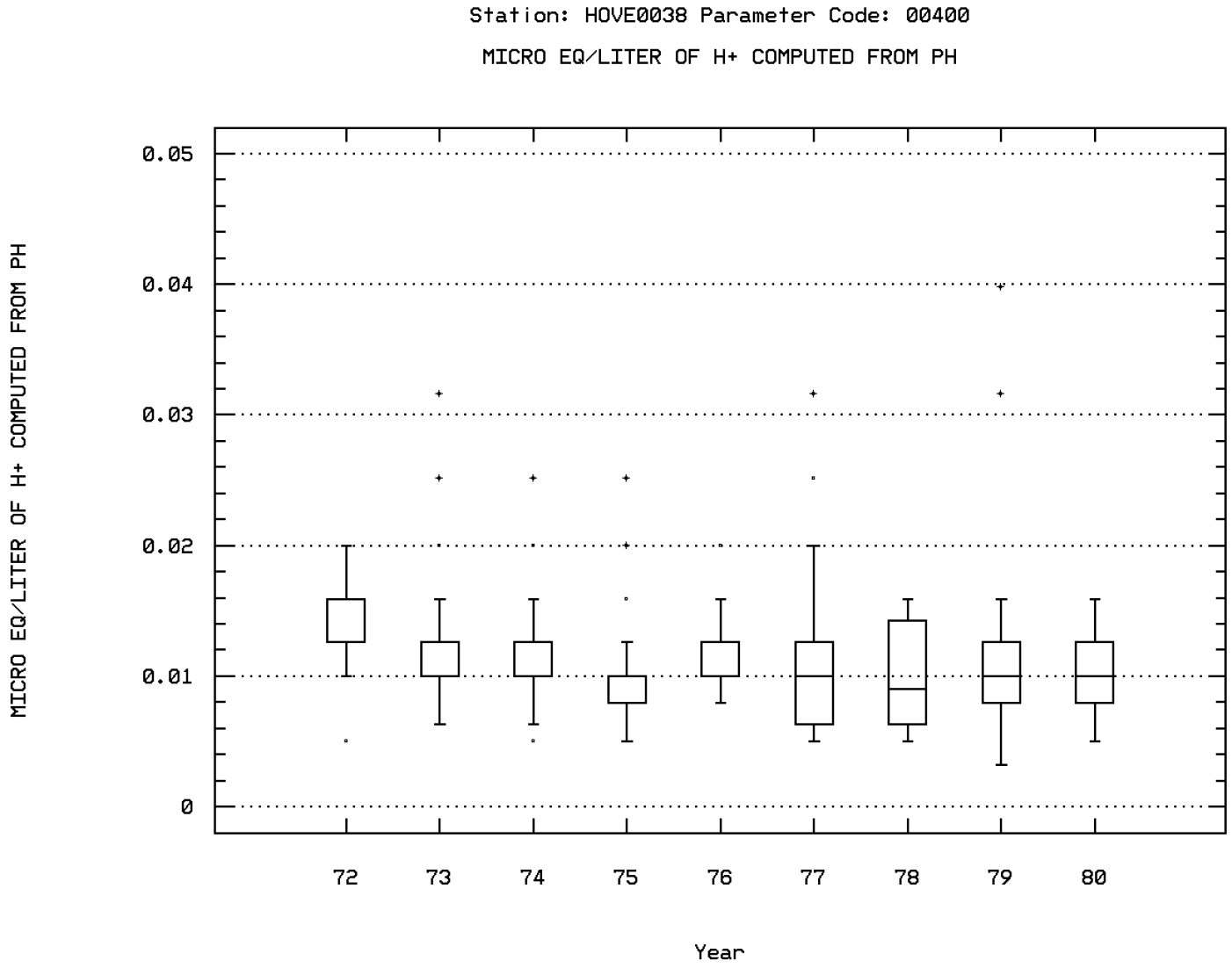
** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot



MCELMO CREEK BELOW CORTEZ,CO



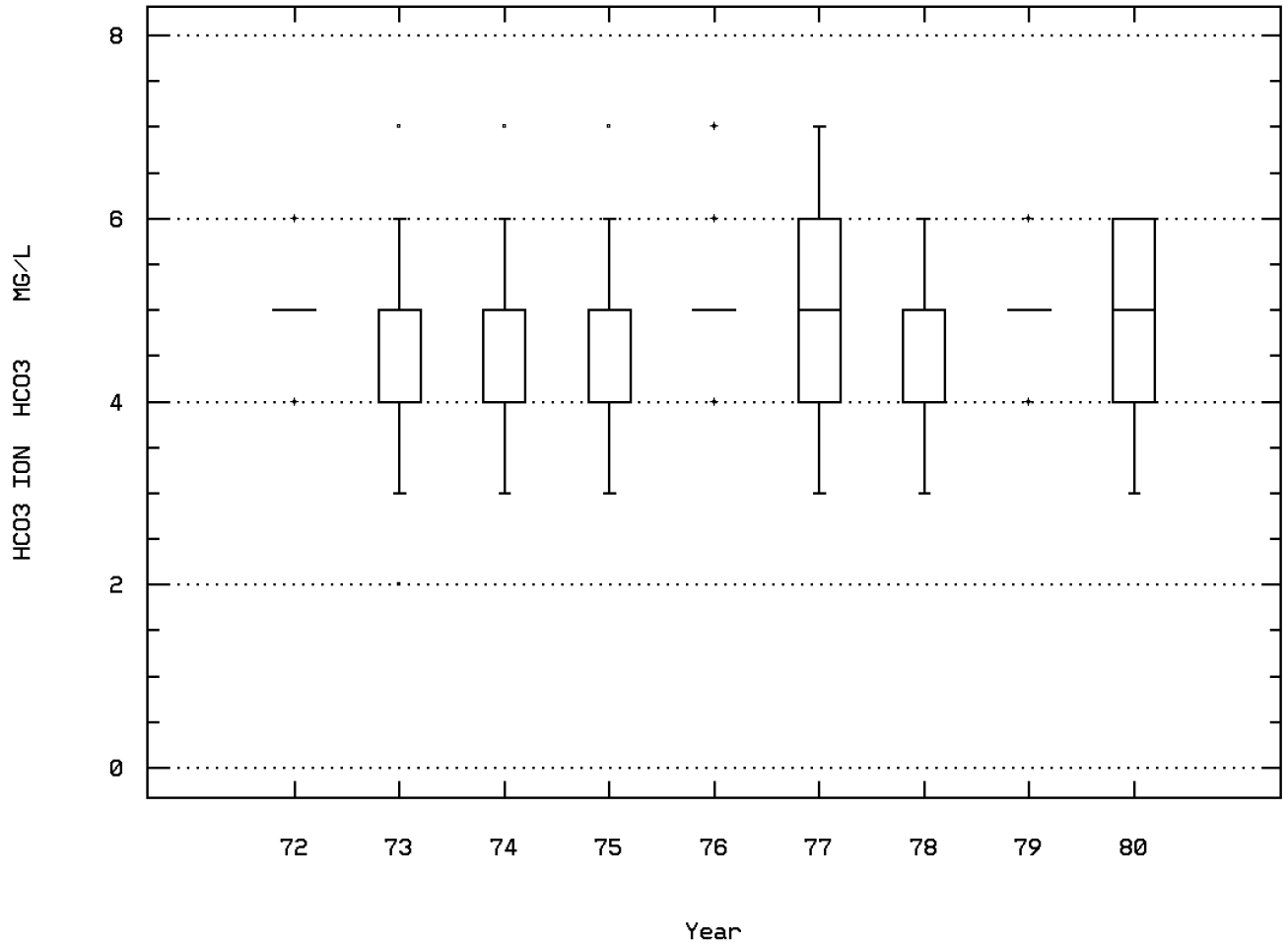
MCELMO CREEK BELOW CORTEZ,CO



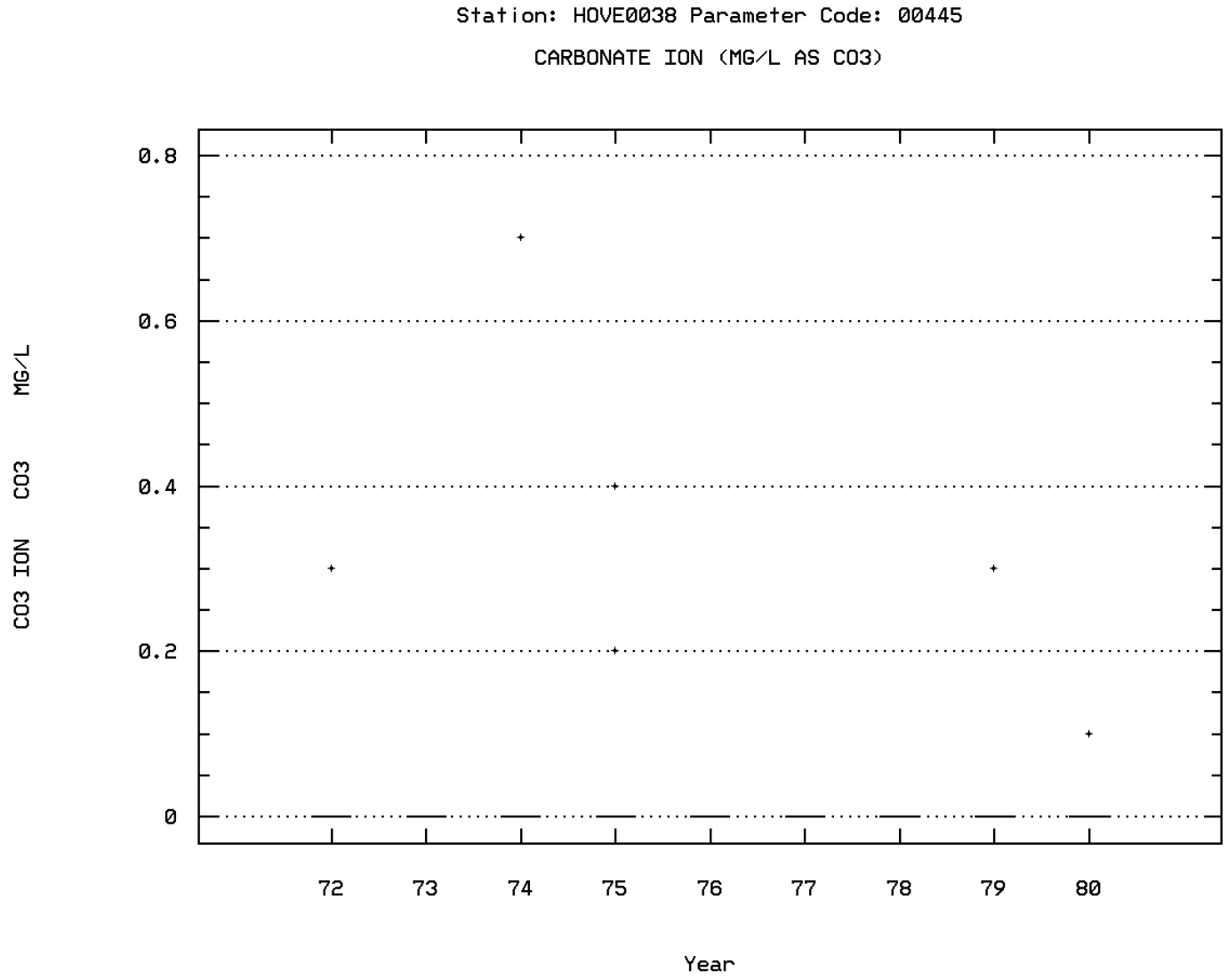
MCELMO CREEK BELOW CORTEZ,CO

Station: HOVE0038 Parameter Code: 00440

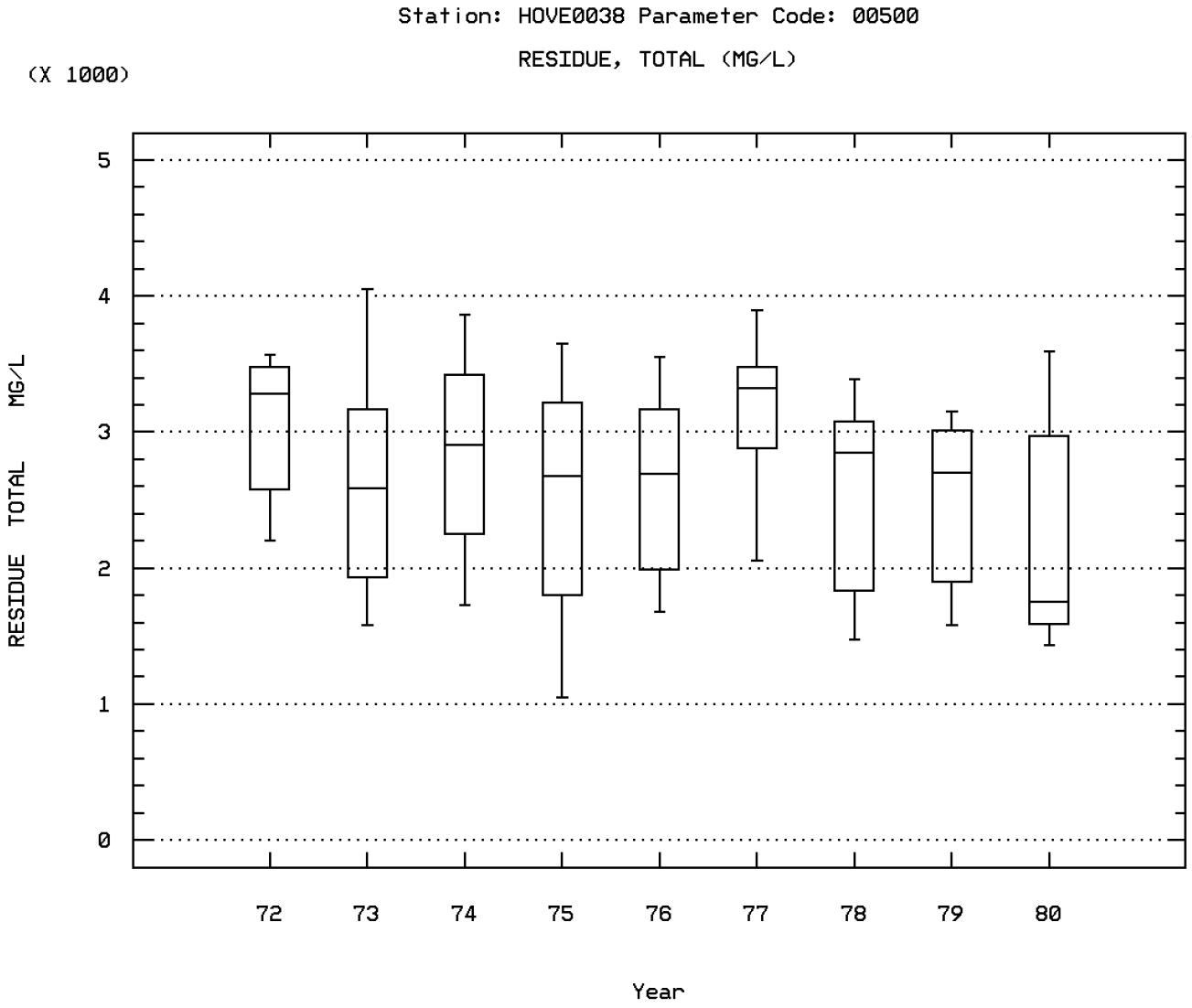
BICARBONATE ION (MG/L AS HCO3)



MCELMO CREEK BELOW CORTEZ,CO



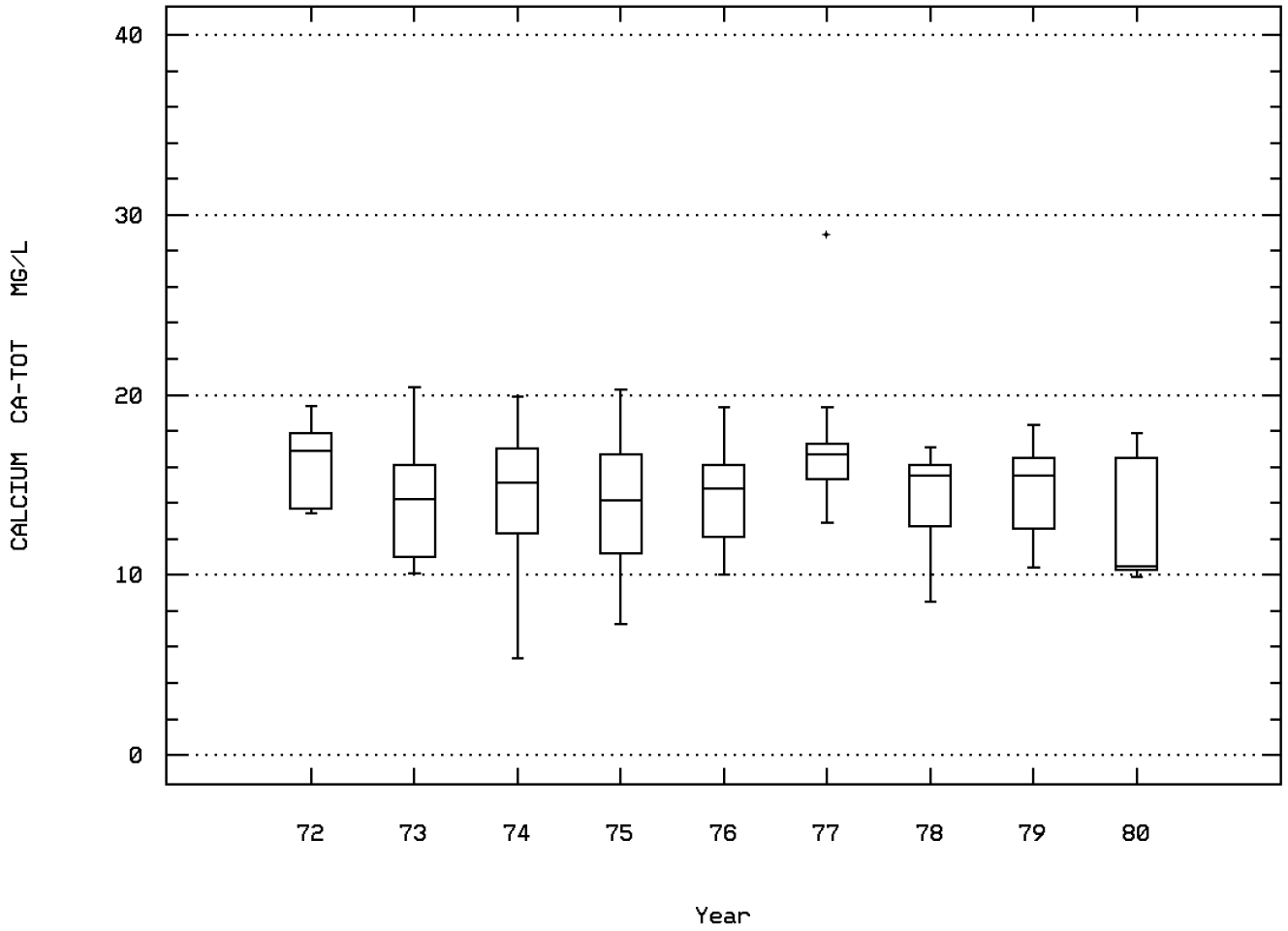
MCELMO CREEK BELOW CORTEZ,CO



MCELMO CREEK BELOW CORTEZ,CO

Station: HOVE0038 Parameter Code: 00916

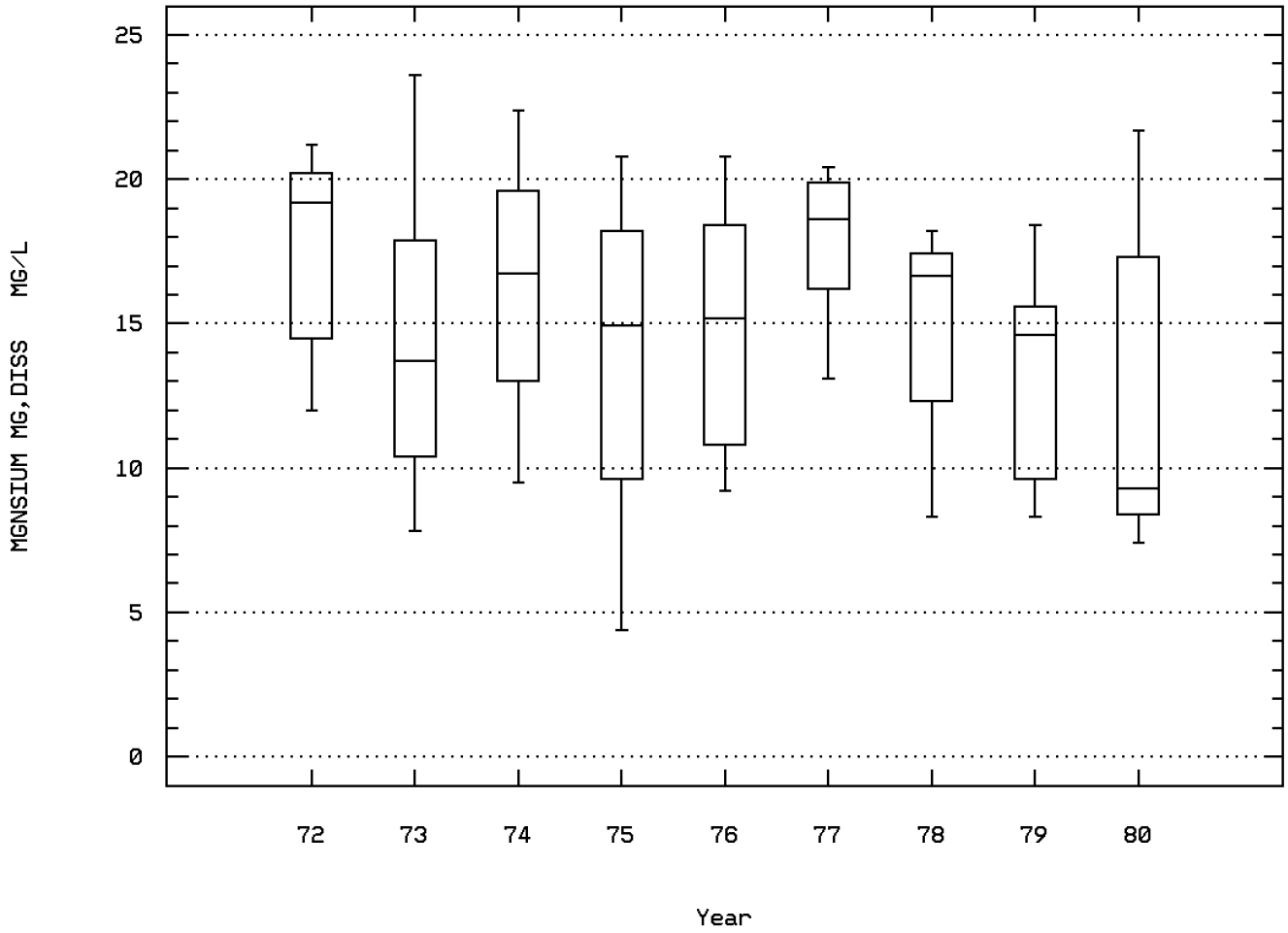
CALCIUM, TOTAL (MG/L AS CA)



MCELMO CREEK BELOW CORTEZ,CO

Station: HOVE0038 Parameter Code: 00925

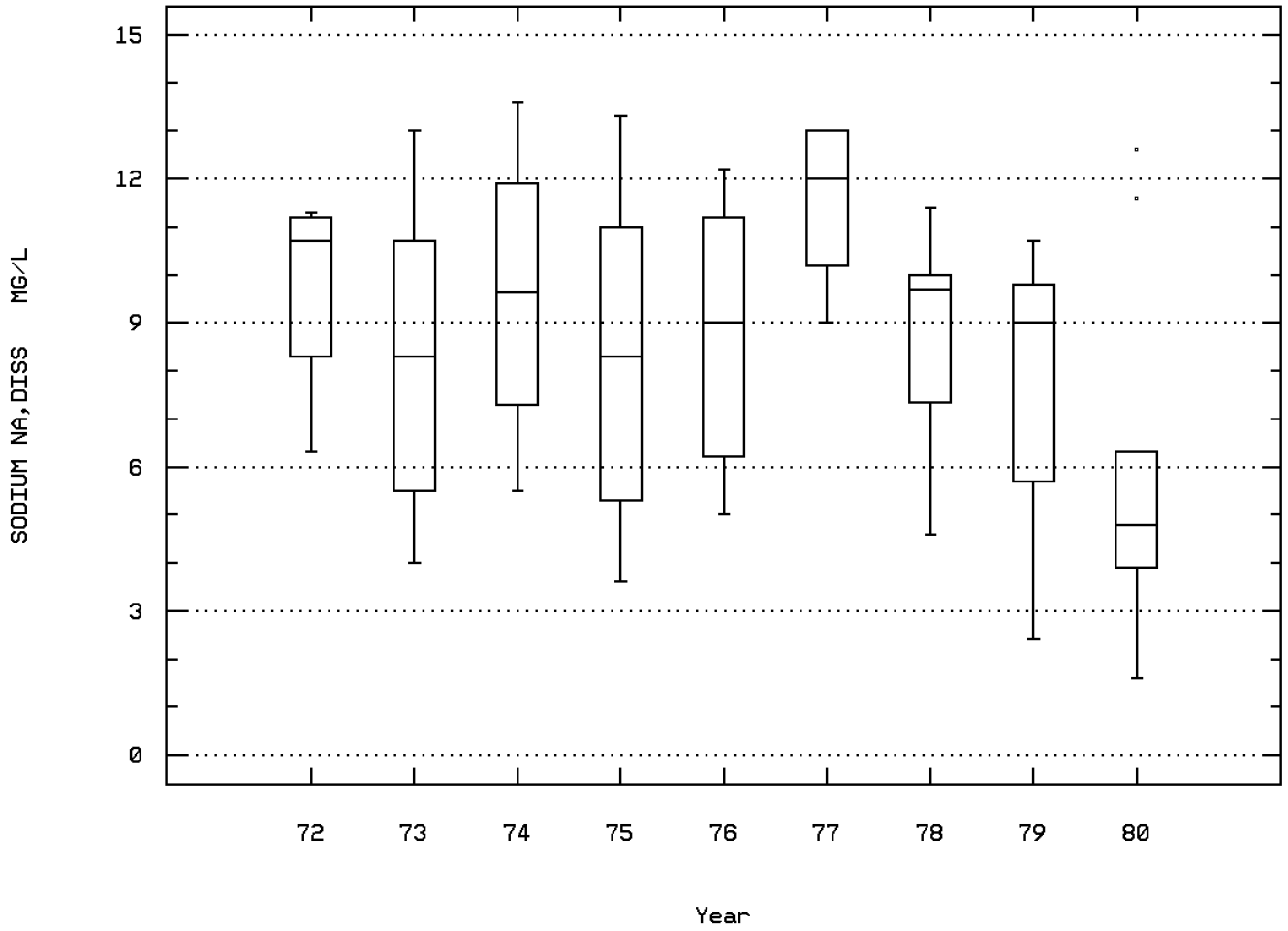
MAGNESIUM, DISSOLVED (MG/L AS MG)



MCELMO CREEK BELOW CORTEZ,CO

Station: HOVE0038 Parameter Code: 00930

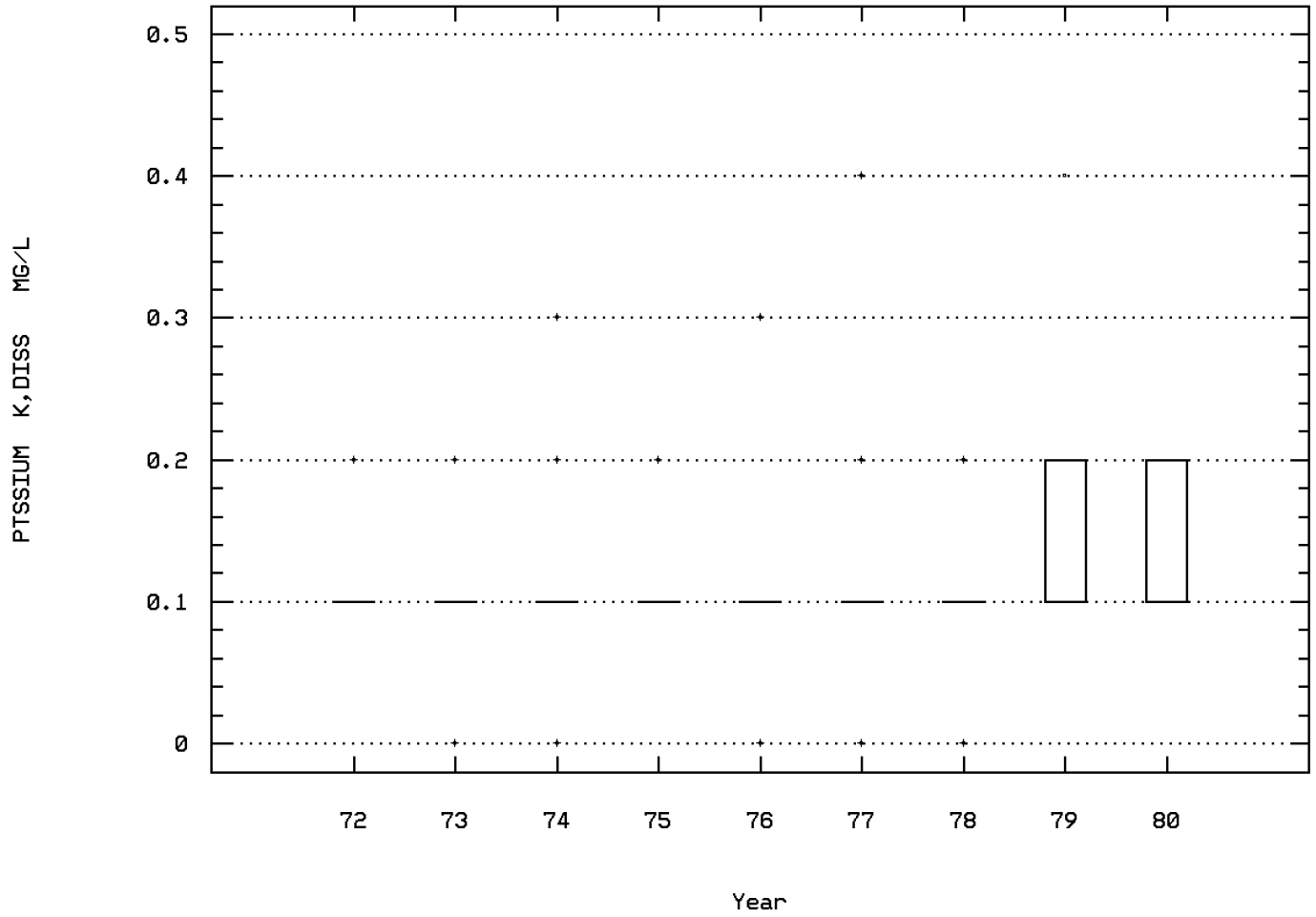
SODIUM, DISSOLVED (MG/L AS NA)



MCELMO CREEK BELOW CORTEZ,CO

Station: HOVE0038 Parameter Code: 00935

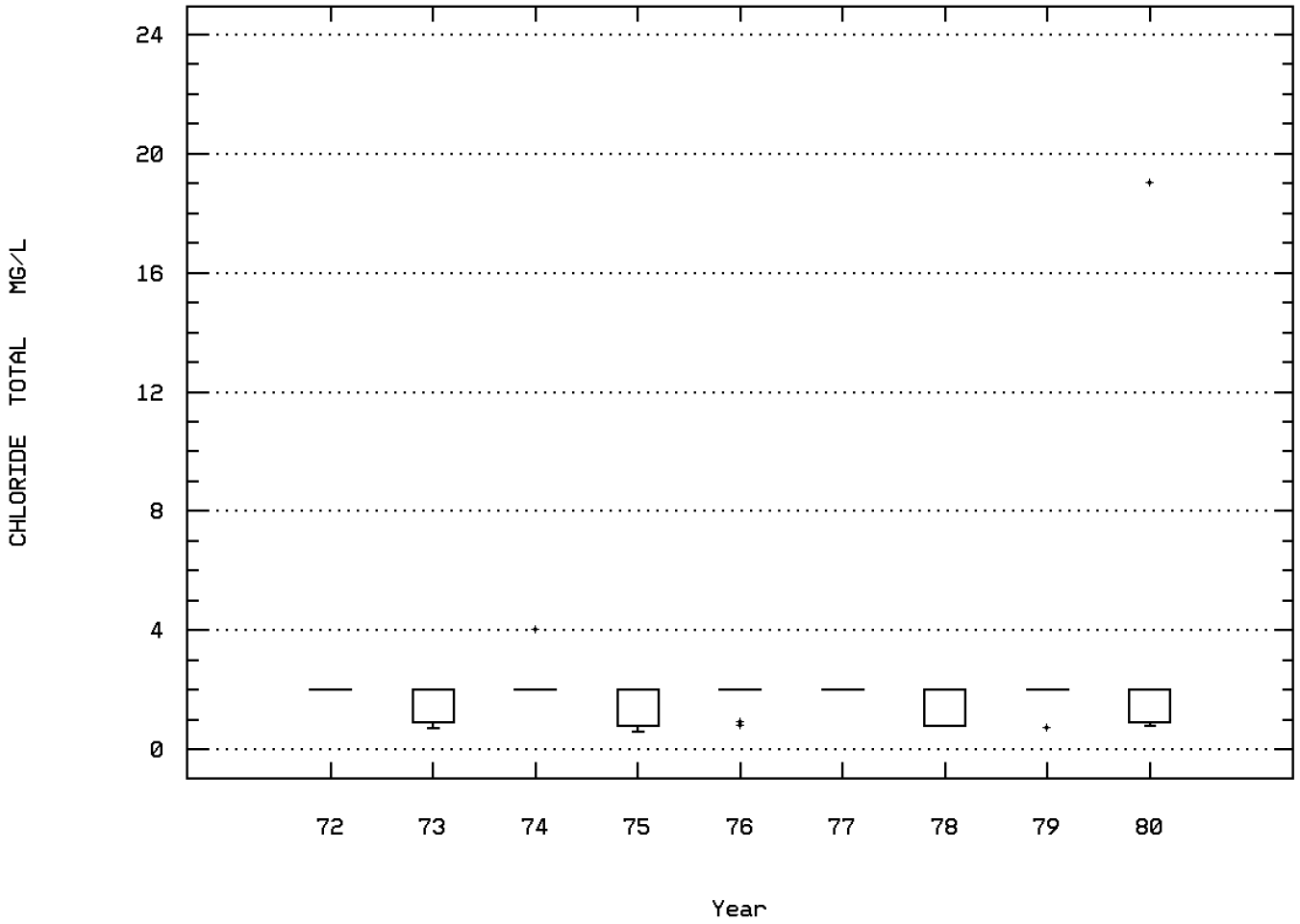
POTASSIUM, DISSOLVED (MG/L AS K)



MCELMO CREEK BELOW CORTEZ,CO

Station: HOVE0038 Parameter Code: 00940

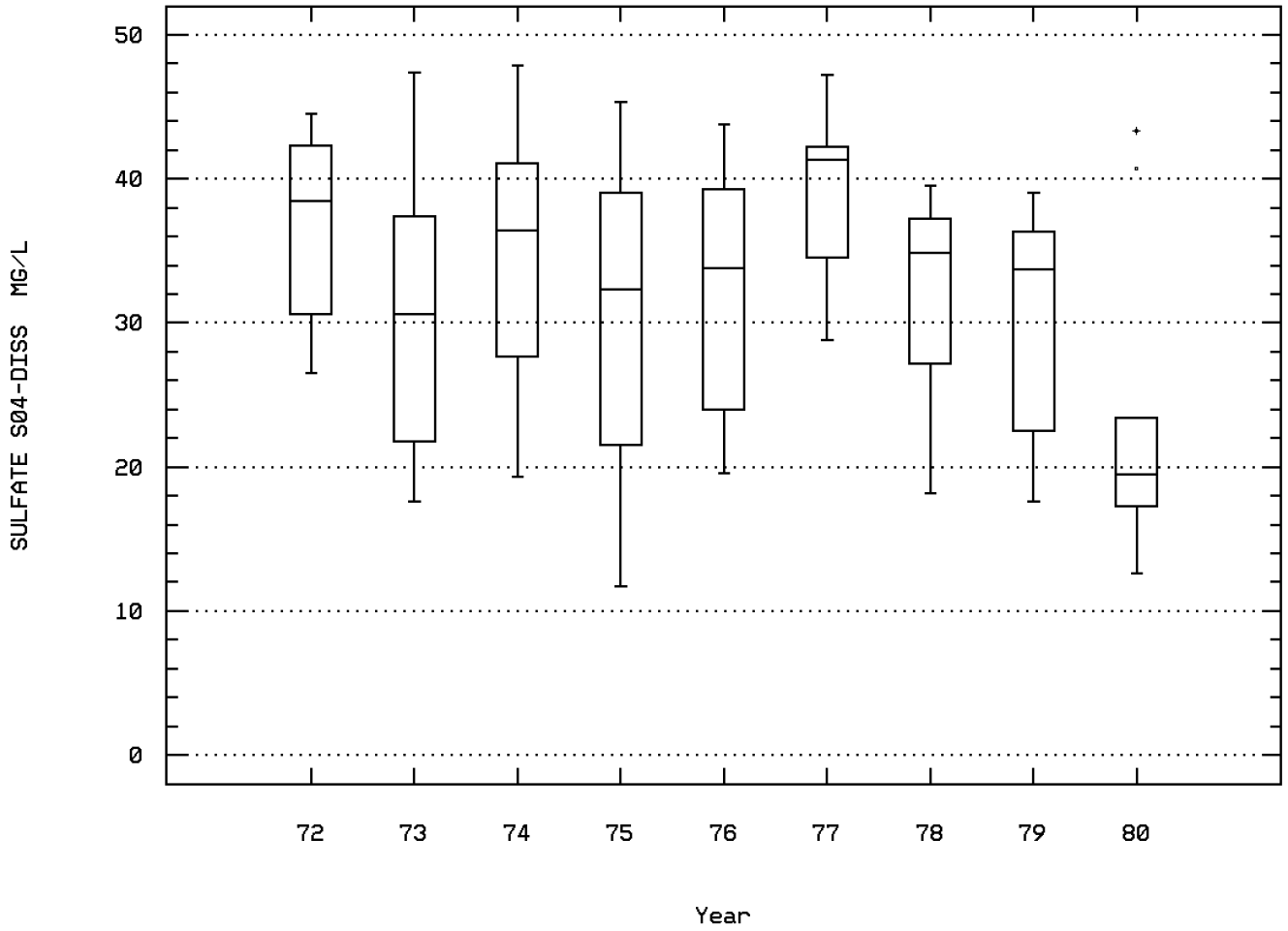
CHLORIDE,TOTAL IN WATER



MCELMO CREEK BELOW CORTEZ,CO

Station: HOVE0038 Parameter Code: 00946

SULFATE, DISSOLVED (MG/L AS SO4)



MCELMO CREEK BELOW CORTEZ,CO

Seasonal Analysis for Season #1: 7/01 to 10/15 - Station HOVE0038

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/06/72-09/16/80	91	19.	18.385	31.	0.	27.417	5.236	12.	15.	22.	24.8
00060	FLOW, STREAM, MEAN DAILY CFS	07/06/72-09/16/80	88	23.	32.902	233.	0.08	1426.238	37.766	0.99	5.	49.5	77.1
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/06/72-09/16/80	91	2460.	2492.374	3820.	1330.	317725.081	563.671	1846.	1980.	2899.	3379.4
00400	PH (STANDARD UNITS)	07/06/72-09/16/80	90	8.	7.947	8.3	7.5	0.024	0.155	7.8	7.8	8.	8.19
00400	CONVERTED PH (STANDARD UNITS)	07/06/72-09/16/80	90	8.	7.919	8.3	7.5	0.025	0.158	7.8	7.8	8.	8.19
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/06/72-09/16/80	90	0.01	0.012	0.032	0.005	0.	0.005	0.006	0.01	0.016	0.016
00440	BICARBONATE ION (MG/L AS HCO3)	07/06/72-09/16/80	78	5.	4.538	7.	2.	0.719	0.848	4.	4.	5.	5.
00445	CARBONATE ION (MG/L AS CO3)	07/06/72-09/16/80	78	0.	0.008	0.4	0.	0.003	0.05	0.	0.	0.	0.
00500	RESIDUE, TOTAL (MG/L)	07/06/72-09/16/80	91	2170.	2246.527	3800.	1050.	380508.252	616.854	1580.	1700.	2690.	3250.4
00916	CALCIUM, TOTAL (MG/L AS CA)	07/06/72-09/16/80	78	11.95	12.424	28.9	5.4	8.053	2.838	9.9	10.575	13.825	15.18
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/06/72-09/16/80	78	11.9	11.681	18.6	4.4	10.207	3.195	8.2	8.85	13.575	16.77
00930	SODIUM, DISSOLVED (MG/L AS NA)	07/06/72-09/16/80	78	6.25	6.699	13.	2.4	5.959	2.441	4.	4.675	8.425	10.34
00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/06/72-09/16/80	78	0.1	0.108	0.4	0.	0.002	0.042	0.1	0.1	0.1	0.1
00940	CHLORIDE,TOTAL IN WATER MG/L	07/06/72-09/16/80	78	1.	1.029	2.	0.6	0.104	0.323	0.8	0.9	1.	1.1
00946	SULFATE, DISSOLVED (MG/L AS SO4)	07/06/72-09/16/80	78	25.5	25.695	47.2	11.7	52.273	7.23	17.78	19.45	30.6	36.72

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

Seasonal Analysis for Season #2: 10/16 to 12/31 - Station HOVE0038

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/06/72-09/16/80	45	3.	4.044	14.	0.	14.816	3.849	0.	1.	7.	9.
00060	FLOW, STREAM, MEAN DAILY CFS	07/06/72-09/16/80	46	27.5	34.474	194.	0.8	1031.042	32.11	9.	18.75	39.5	61.3
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/06/72-09/16/80	47	3260.	3250.447	3950.	2340.	129718.079	360.164	2808.	2980.	3546.	3675.
00400	PH (STANDARD UNITS)	07/06/72-09/16/80	47	8.	7.943	8.3	7.5	0.022	0.149	7.8	7.8	8.	8.12
00400	CONVERTED PH (STANDARD UNITS)	07/06/72-09/16/80	47	8.	7.917	8.3	7.5	0.023	0.151	7.8	7.8	8.	8.12
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/06/72-09/16/80	47	0.01	0.012	0.032	0.005	0.	0.005	0.008	0.01	0.016	0.016
00440	BICARBONATE ION (MG/L AS HCO3)	07/06/72-09/16/80	44	5.	4.977	7.	3.	0.953	0.976	3.	5.	6.	6.
00445	CARBONATE ION (MG/L AS CO3)	07/06/72-09/16/80	44	0.	0.007	0.3	0.	0.002	0.045	0.	0.	0.	0.
00500	RESIDUE, TOTAL (MG/L)	07/06/72-09/16/80	47	3080.	3063.702	3892.	2080.	162700.866	403.362	2588.	2740.	3420.	3552.
00916	CALCIUM, TOTAL (MG/L AS CA)	07/06/72-09/16/80	44	16.2	16.182	19.4	12.5	3.152	1.775	13.3	15.325	17.475	18.8
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/06/72-09/16/80	44	17.35	17.234	22.4	11.7	6.177	2.485	14.5	15.2	19.4	20.3
00930	SODIUM, DISSOLVED (MG/L AS NA)	07/06/72-09/16/80	44	9.85	9.993	13.6	6.2	2.212	1.487	8.25	9.	11.	11.8
00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/06/72-09/16/80	44	0.1	0.111	0.4	0.	0.003	0.054	0.1	0.1	0.1	0.15
00940	CHLORIDE,TOTAL IN WATER MG/L	07/06/72-09/16/80	44	2.	1.614	2.	1.	0.243	0.493	1.	1.	2.	2.
00946	SULFATE, DISSOLVED (MG/L AS SO4)	07/06/72-09/16/80	44	37.05	36.793	47.9	25.	22.759	4.771	31.25	33.8	40.975	42.25

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

Seasonal Analysis for Season #3: 1/01 to 3/15 - Station HOVE0038

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/06/72-09/16/80	48	1.	1.604	6.	0.	3.478	1.865	0.	0.	3.	4.1
00060	FLOW, STREAM, MEAN DAILY CFS	07/06/72-09/16/80	47	29.	54.809	560.	17.	6945.071	83.337	19.	22.	60.	110.4
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/06/72-09/16/80	49	3493.	3431.082	3980.	2190.	146450.243	382.688	2920.	3225.	3740.	3840.
00400	PH (STANDARD UNITS)	07/06/72-09/16/80	49	8.	7.998	8.3	7.6	0.023	0.151	7.8	7.9	8.1	8.2
00400	CONVERTED PH (STANDARD UNITS)	07/06/72-09/16/80	49	8.	7.971	8.3	7.6	0.023	0.153	7.8	7.9	8.1	8.2
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/06/72-09/16/80	49	0.01	0.011	0.025	0.005	0.	0.004	0.006	0.008	0.013	0.016
00440	BICARBONATE ION (MG/L AS HCO3)	07/06/72-09/16/80	48	6.	5.479	7.	3.	1.191	1.091	4.	5.	6.	7.
00445	CARBONATE ION (MG/L AS CO3)	07/06/72-09/16/80	48	0.	0.002	0.1	0.	0.	0.014	0.	0.	0.	0.
00500	RESIDUE, TOTAL (MG/L)	07/06/72-09/16/80	49	3384.	3300.449	4050.	1930.	194762.711	441.319	2700.	3025.	3660.	3740.
00916	CALCIUM, TOTAL (MG/L AS CA)	07/06/72-09/16/80	48	17.45	17.185	20.4	10.9	4.136	2.034	14.65	16.2	18.475	19.9
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/06/72-09/16/80	48	19.2	18.79	23.6	10.1	8.223	2.868	14.78	17.225	21.15	21.73
00930	SODIUM, DISSOLVED (MG/L AS NA)	07/06/72-09/16/80	48	11.2	10.729	13.3	1.6	4.948	2.224	7.75	9.925	12.2	13.
00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/06/72-09/16/80	48	0.1	0.125	0.3	0.	0.004	0.06	0.1	0.1	0.1	0.2

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

Seasonal Analysis for Season #3: 1/01 to 3/15 - Station HOVE0038

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00940	CHLORIDE,TOTAL IN WATER MG/L	07/06/72-09/16/80	48	2.	2.165	19.	0.9	6.445	2.539	1.	2.	2.	2.
00946	SULFATE, DISSOLVED (MG/L AS SO4)	07/06/72-09/16/80	48	41.3	39.285	47.4	12.6	44.262	6.653	31.54	36.25	44.175	45.74

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

Seasonal Analysis for Season #4: 3/16 to 6/30 - Station HOVE0038

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/06/72-09/16/80	67	14.	13.433	25.	3.	26.855	5.182	6.	8.	17.	20.2
00060	FLOW, STREAM, MEAN DAILY CFS	07/06/72-09/16/80	70	35.	53.91	450.	0.3	5268.537	72.585	4.	13.	58.75	137.5
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/06/72-09/16/80	72	2900.	2814.486	3750.	1770.	370806.169	608.939	2023.	2162.5	3390.	3587.
00400	PH (STANDARD UNITS)	07/06/72-09/16/80	72	8.	8.015	8.5	7.4	0.03	0.173	7.9	7.9	8.1	8.2
00400	CONVERTED PH (STANDARD UNITS)	07/06/72-09/16/80	72	8.	7.978	8.5	7.4	0.031	0.176	7.9	7.9	8.1	8.2
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/06/72-09/16/80	72	0.01	0.011	0.04	0.003	0.	0.005	0.006	0.008	0.013	0.013
00440	BICARBONATE ION (MG/L AS HCO3)	07/06/72-09/16/80	68	4.	4.397	6.	3.	0.482	0.694	3.9	4.	5.	5.
00445	CARBONATE ION (MG/L AS CO3)	07/06/72-09/16/80	68	0.	0.038	1.	0.	0.025	0.158	0.	0.	0.	0.
00500	RESIDUE, TOTAL (MG/L)	07/06/72-09/16/80	72	2685.	2604.167	3610.	1470.	470996.366	686.292	1753.	1855.	3227.5	3474.
00916	CALCIUM, TOTAL (MG/L AS CA)	07/06/72-09/16/80	68	14.15	13.734	18.3	8.5	7.126	2.669	10.49	11.	16.4	16.72
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/06/72-09/16/80	68	14.15	14.481	20.8	8.3	18.775	4.333	9.2	9.825	18.4	20.4
00930	SODIUM, DISSOLVED (MG/L AS NA)	07/06/72-09/16/80	68	8.6	8.659	13.3	4.6	7.851	2.802	5.3	5.7	11.2	12.6
00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/06/72-09/16/80	68	0.1	0.097	0.2	0.	0.001	0.03	0.1	0.1	0.1	0.1
00940	CHLORIDE,TOTAL IN WATER MG/L	07/06/72-09/16/80	68	1.	1.451	2.	0.8	0.274	0.523	0.9	1.	2.	2.
00946	SULFATE, DISSOLVED (MG/L AS SO4)	07/06/72-09/16/80	68	32.5	31.215	45.3	18.2	80.836	8.991	19.79	21.725	40.225	43.

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

Station Inventory for Station: HOVE0039

NPS Station ID: HOVE0039
LAT/LON: 37.340559/-108.805281
Agency: 112WRD
Date Created: 06/29/78
Location: MCELMO CREEK BELOW CORTEZ, CO.
FIPS State/County: 08083 COLORADO/MONTEZUMA
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 09371700
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 14080202
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 14080202006
RF1 Mile Point: 7.230
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 14080202000800.00
RF3 Mile Point: 0.50
Distance from RF3: 0.03
On/Off RF3:
Description:

Parameter Inventory for Station: HOVE0039

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/01/76-08/30/83	85	13.	12.106	27.	0.	64.072	8.004	1.	5.	19.	22.4
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/76-08/30/83	85	2500.	2560.306	4000.	1150.	524304.143	724.088	1600.	1955.	3100.	3500.

** - Less than 9 observations ## - 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. **********

Annual Analysis for 1976 - Station HOVE0039

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/01/76-08/30/83	4	5.	5.5	12.	0.	41.	6.403	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/76-08/30/83	4	2900.	2950.	3250.	2750.	51666.667	227.303	**	**	**	**

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

Annual Analysis for 1977 - Station HOVE0039

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/01/76-08/30/83	12	10.	10.958	24.	0.	79.657	8.925	0.3	1.5	20.125	24.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/76-08/30/83	12	3450.	3216.667	4000.	2200.	350606.061	592.12	2260.	2625.	3500.	4000.

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

Annual Analysis for 1978 - Station HOVE0039

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/01/76-08/30/83	11	15.	12.909	22.	0.	46.291	6.804	1.	7.	18.	21.6
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/76-08/30/83	11	2800.	2745.455	3400.	2100.	286727.273	535.469	2120.	2200.	3300.	3400.

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

Annual Analysis for 1979 - Station HOVE0039

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/01/76-08/30/83	11	8.	10.909	24.	0.	79.491	8.916	0.4	3.	19.	23.8
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/76-08/30/83	12	2750.	2787.5	4000.	1700.	574602.273	758.025	1745.	2100.	3400.	3970.

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

Annual Analysis for 1980 - Station HOVE0039

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/01/76-08/30/83	11	9.5	10.773	21.	2.	40.268	6.346	2.2	6.	17.	20.4
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/76-08/30/83	11	2400.	2361.818	3300.	1650.	334036.364	577.959	1670.	1850.	2900.	3240.

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

Annual Analysis for 1981 - Station HOVE0039

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/01/76-08/30/83	15	17.	15.033	27.	0.	70.945	8.423	1.2	8.	23.	24.6
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/76-08/30/83	14	2000.	2242.857	3500.	1150.	643791.209	802.366	1275.	1575.	3050.	3500.

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

Annual Analysis for 1982 - Station HOVE0039

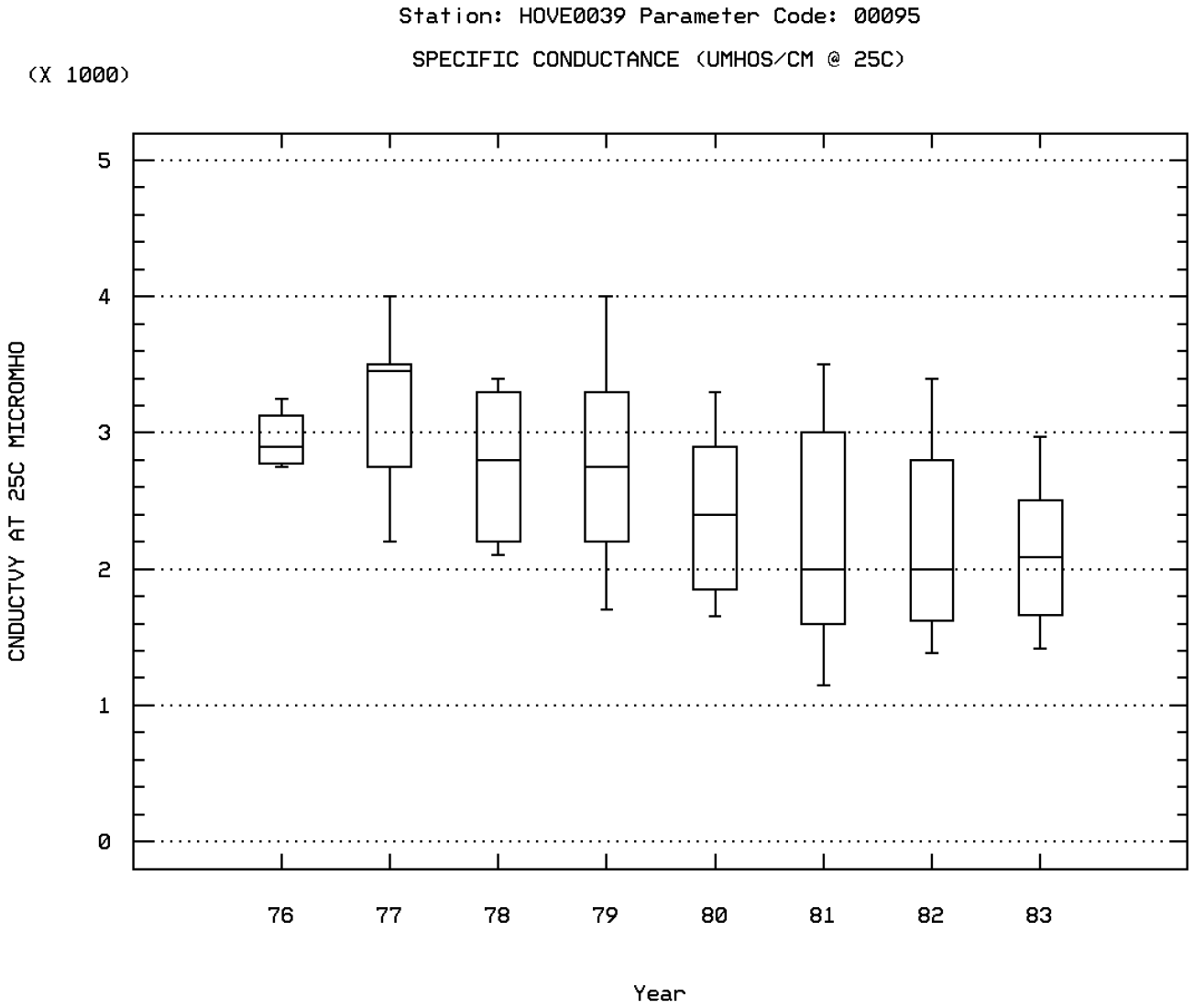
Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/01/76-08/30/83	13	18.	12.654	22.	0.	78.391	8.854	0.4	2.	20.	21.6
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/76-08/30/83	13	2000.	2253.846	3400.	1380.	466758.974	683.198	1428.	1610.	2900.	3280.

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

Annual Analysis for 1983 - Station HOVE0039

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/01/76-08/30/83	8	15.	13.125	22.	1.	59.268	7.699	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/76-08/30/83	8	2090.	2112.	2970.	1420.	297803.429	545.714	**	**	**	**

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



MCELMO CREEK BELOW CORTEZ, CO.

Seasonal Analysis for Season #1: 7/01 to 10/15 - Station HOVE0039

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/01/76-08/30/83	25	20.	18.76	24.	10.	19.253	4.388	11.2	15.	22.5	23.4
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/76-08/30/83	24	1865.	2072.917	3500.	1150.	421847.645	649.498	1390.	1600.	2500.	3200.

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

Seasonal Analysis for Season #2: 10/16 to 12/31 - Station HOVE0039

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/01/76-08/30/83	16	2.5	4.125	12.	0.	14.383	3.793	0.	1.25	7.75	10.6
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/76-08/30/83	16	2950.	2951.875	4000.	1980.	291056.25	539.496	2274.	2525.	3237.5	4000.

** - Less than 9 observations ## - Computed 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: 1/01 to 3/15 - Station HOVE0039

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/01/76-08/30/83	15	3.	3.133	7.	0.	6.838	2.615	0.	1.	6.	6.4
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/76-08/30/83	16	3000.	3023.125	3900.	2000.	261089.583	510.969	2175.	2800.	3475.	3620.

** - Less than 9 observations ## - Computed 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: 3/16 to 6/30 - Station HOVE0039

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/01/76-08/30/83	29	17.	15.414	27.	0.	34.198	5.848	8.	10.	19.5	22.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/76-08/30/83	29	2200.	2492.276	4000.	1500.	512180.207	715.668	1700.	1850.	3150.	3500.

** - Less than 9 observations ## - Computed 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: HOVE0040

NPS Station ID: HOVE0040
LAT/LON: 37.340559/-108.805281
Agency: 21COL001
Date Created: / /
Location: MCELMO CREEK WEST OF CORTEZ
FIPS State/County: 08083 COLORADO/MONTEZUMA
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 000062
RMI-Indexes: 1101000 009420 01330
Within Park Boundary: No
RMI-Miles: 0789.60 0165.80 033.80
HUC: 14080202
Depth of Water: 0
Aquifer:
Major Basin: COLORADO
Elevation: 0
Water Body Id:
Minor Basin: MIDDLE COLORADO SAN JUAN
ECO Region:
RF1 Index: 14080202006
RF1 Mile Point: 7.230
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 14080202000400.00
RF3 Mile Point: 1.63
Distance from RF3: 0.00
On/Off RF3:
Description:
MCELMO CREEK AT BRIDGE 12.5 MILES WEST OF CORTEZ ON MONTEZUMA COUNTY ROAD 32 100 YARDS UPSTREAM FROM USGS STATION #09371700, MONTEZUMA COUNTY. T.36-N, R.18-W, S.35 STATE OF COLORADO DEPARTMENT OF HEALTH STATION NO. RPS-62
ELEVATION 5430 FEET

Parameter Inventory for Station: HOVE0040

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011p	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/23/68-04/01/82	87	48.	51.795	81.	32.	243.093	15.591	32.	37.4	66.	74.2
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	04/01/82-04/01/82	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00021	TEMPERATURE, AIR (DEGREES FAHRENHEIT)	01/29/79-06/10/82	18	50.	58.389	93.	25.	487.781	22.086	34.	40.	81.25	90.3
00057	FLOW, INDICATES IT HAS BEEN CHECKED	10/12/72-06/10/82	54	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060	FLOW, STREAM, MEAN DAILY CFS	10/12/72-06/10/82	54	22.5	35.928	310.	0.1	2297.972	47.937	4.	13.25	36.75	94.
00076p	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	03/13/68-06/04/80	65	110.	471.772	12000.	4.	2359031.125	1535.914	8.88	51.5	370.	708.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/23/68-04/01/82	79	2760.	2919.595	4963.	290.	885044.757	940.768	1900.	2210.	3562.	4315.
00300	OXYGEN, DISSOLVED MG/L	05/02/73-04/01/82	48	9.8	9.95	13.8	6.	4.192	2.047	7.38	8.3	11.7	12.76
00310p	BOD, 5 DAY, 20 DEG C MG/L	07/09/68-06/04/80	44	2.3	2.793	7.	1.	1.731	1.316	1.25	2.	3.775	4.65
00400p	PH (STANDARD UNITS)	01/23/68-04/01/82	81	8.3	8.244	10.4	7.6	0.146	0.382	7.8	8.	8.4	8.5
00400p	CONVERTED PH (STANDARD UNITS)	01/23/68-04/01/82	81	8.3	8.127	10.4	7.6	0.16	0.4	7.8	8.	8.4	8.5
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/23/68-04/01/82	81	0.005	0.007	0.025	0.	0.	0.005	0.003	0.004	0.01	0.016
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	02/15/78-04/01/82	14	254.	238.714	340.	92.	6264.989	79.152	106.	182.	297.5	335.
00500	RESIDUE, TOTAL (MG/L)	04/16/74-09/10/75	8	3625.5	3761.375	5136.	2379.	1173206.554	1083.147	**	**	**	**
00505	RESIDUE, TOTAL VOLATILE (MG/L)	07/09/68-05/02/73	11	13.	642.364	6302.	6.	3553680.255	1885.121	6.	10.	57.	5160.8
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/09/68-04/01/82	61	150.	618.492	9319.	5.	1920696.354	1385.892	16.	59.	519.	2045.2
00545	RESIDUE, SETTLEABLE (ML/L)	07/09/68-05/02/73	12 ##	0.05	1.542	15.	0.05	18.283	4.276	0.05	0.05	0.575	11.1
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/18/68-04/01/82	72	0.05	0.252	2.5	0.	0.272	0.521	0.	0.	0.245	0.863
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	11/19/68-05/10/79	51	0.033	0.059	0.265	0.	0.003	0.059	0.004	0.021	0.09	0.153
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/18/68-08/02/79	56	2.65	3.842	17.1	0.02	12.671	3.56	0.821	1.575	4.9	8.65
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/02/79-04/01/82	17 ##	0.5	0.629	1.6	0.5	0.096	0.31	0.5	0.5	0.5	1.2
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/25/79-04/01/82	18	2.55	3.247	12.	0.25	9.181	3.03	0.745	1.2	3.75	9.84
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	09/18/68-05/02/73	26	0.225	0.301	1.	0.	0.067	0.26	0.	0.1	0.413	0.73
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/16/74-04/01/82	40	0.26	0.548	1.6	0.	0.249	0.499	0.03	0.128	1.058	1.2
00723p	CYANIDE, DISSOLVED STD METHOD (UG/L)	03/13/68-04/01/82	62	0.	0.034	2.	0.	0.064	0.254	0.	0.	0.005	0.005
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	03/13/68-12/09/80	67	1524.	1542.537	2552.	120.	281408.161	530.479	906.4	1125.	1960.	2184.
00910p	CALCIUM (MG/L AS CACO3)	03/13/68-12/09/80	67	790.	786.896	1592.	86.	78173.792	279.596	437.6	640.	980.	1091.2
00927p	MAGNESIUM, TOTAL (MG/L AS MG)	03/13/68-12/09/80	67	191.	182.134	380.	8.	7250.694	85.151	57.6	120.	237.	290.
00929p	SODIUM, TOTAL (MG/L AS NA)	03/13/68-06/04/80	66	222.5	240.379	590.	50.	13303.347	115.34	100.	157.5	302.5	400.
00931p	SODIUM ADSORPTION RATIO	03/13/68-06/04/80	66	2.45	2.782	15.	0.2	3.487	1.867	1.4	1.9	3.225	4.15
00937	POTASSIUM, TOTAL MG/L AS K)	02/15/78-11/05/81	9	7.	6.956	9.	4.	2.1	1.449	4.	6.25	8.1	9.

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

Parameter Inventory for Station: HOVE0040

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00940p	CHLORIDE,TOTAL IN WATER MG/L	03/13/68-06/04/80	66	53.	55.182	170.	15.	671.997	25.923	29.7	38.	62.25	89.8
00945p	SULFATE, TOTAL (MG/L AS SO4)	09/18/68-04/01/82	72	1665.	1631.222	2996.	68.	375496.767	612.778	956.8	1200.	2067.5	2421.
00951	FLUORIDE, TOTAL (MG/L AS F)	03/13/68-07/12/77	34	0.6	0.6	1.6	0.2	0.076	0.275	0.3	0.4	0.7	0.9
00980p	IRON,TOTAL RECOVERABLE IN WATER AS FE UG/L	03/13/68-04/01/82	77	250.	4277.532	160000.	0.	373004050.41	19313.313	46.	100.	1035.	6080.
00998	BERYLLIUM,TOTAL RECOVERABLE IN WATER AS BE UG/L	05/10/79-11/05/81	6 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01002p	ARSENIC, TOTAL (UG/L AS AS)	03/13/68-02/01/82	59	0.	2.492	27.	0.	23.401	4.837	0.	0.	5.	5.
01022p	BORON, TOTAL (UG/L AS B)	01/23/68-11/05/81	55	200.	214.545	760.	0.	17306.734	131.555	58.	150.	260.	358.
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	03/13/68-12/15/76	27	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
01074	NICKEL,TOTAL RECOVERABLE IN WATER AS NI UG/L	06/07/78-11/05/81	7 ##	25.	32.143	50.	0.	357.143	18.898	**	**	**	**
01079	SILVER,TOTAL RECOVERABLE IN WATER AS AG UG/L	11/19/68-11/05/81	24	0.	1.171	25.	0.	25.852	5.084	0.	0.	0.15	1.
01094p	ZINC,TOTAL RECOVERABLE IN WATER AS ZN UG/L	03/13/68-04/01/82	75	10.	58.733	800.	0.	20802.766	144.232	0.	0.	40.	182.
01104	ALUMINUM,TOTAL RECOVERABLE IN WATER AS AL UG/L	06/07/78-11/05/81	7 ##	800.	907.571	2000.	3.	396117.952	629.379	**	**	**	**
01113p	CADMIUM,TOTAL RECOVERABLE IN WATER AS CD UG/L	03/13/68-04/01/82	70	0.	0.181	2.	0.	0.133	0.365	0.	0.	0.15	0.79
01114p	LEAD,TOTAL RECOVERABLE IN WATER AS PB UG/L	03/13/68-04/01/82	61	2.5	9.779	99.	0.	378.788	19.462	0.	0.	8.5	39.
01118	CHROMIUM TOTAL RECOVERABLE IN WATER AS CR UG/L	06/22/76-11/07/77	7	0.	0.571	4.	0.	2.286	1.512	**	**	**	**
01119p	COPPER,TOTAL RECOVERABLE IN WATER AS CU UG/L	03/13/68-04/01/82	60	2.5	7.867	90.	0.	250.863	15.839	0.	0.	9.75	20.9
01123p	MANGANESE,TOTAL RECOVERABLE IN WATER AS MN UG/L	03/13/68-04/01/82	76	80.	206.579	3100.	0.	213136.14	461.667	0.	0.	250.	400.
01129	MOLYBDENUM,TOTAL RECOVERABLE IN WATER AS MB UG/L	02/24/71-02/15/78	22	0.	5.455	35.	0.	92.641	9.625	0.	0.	11.25	20.
01147p	SELENIUM, TOTAL (UG/L AS SE)	01/23/68-04/01/82	60	5.	5.967	20.	0.	26.304	5.129	0.	1.	9.	13.
01503	ALPHA, DISSOLVED	09/18/68-01/11/77	37	27.	38.135	153.	0.	1028.676	32.073	5.2	14.5	60.	76.
01504	ALPHA, DISSOLVED, COUNTING ERROR	09/18/68-01/11/77	37	26.	31.351	76.	18.	197.401	14.05	20.8	23.	30.	52.8
03501	BETA, TOTAL	04/06/78-04/06/78	1	11.	11.	11.	11.	0.	0.	**	**	**	**
03503	BETA, DISSOLVED	09/06/69-07/12/77	30	15.	21.38	129.	0.4	557.035	23.602	5.	8.	28.5	43.7
03504	BETA, DISSOLVED, COUNTING ERROR	09/06/69-07/12/77	30	14.	19.433	105.	10.	318.323	17.842	11.	11.	22.25	26.9
09503	RADIUM 226, DISSOLVED	03/19/69-11/07/77	23	0.2	0.466	3.22	0.09	0.512	0.716	0.1	0.14	0.4	1.49
09504	RADIUM 226, DISSOLVED, COUNTING ERROR	03/19/69-11/07/77	23	0.1	0.125	0.29	0.06	0.003	0.054	0.084	0.1	0.14	0.212
09505	RADIUM 226, SUSPENDED	02/15/78-04/06/78	2	0.065	0.065	0.07	0.06	0.	0.007	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	05/10/79-11/05/81	3	11.	9.833	11.5	7.	6.083	2.466	**	**	**	**
31505p	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	01/23/68-06/07/78	57	17200.	60387.386	542000.	21.15801564499.491		125704.274	460.	2300.	28500.	306000.
31505p	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	01/23/68-06/07/78	57	4.236	4.013	5.734	1.322	0.87	0.933	2.655	3.362	4.449	5.485
31505p	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			10292.948								
31615p	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	01/23/68-04/01/82	77	430.	10615.545	430000.	3. 2471813947.225		49717.341	19.8	110.	3050.	18400.
31615p	LOG FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	01/23/68-04/01/82	77	2.633	2.757	5.633	0.477	1.247	1.117	1.282	2.041	3.471	4.263
31615p	GM FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	GEOMETRIC MEAN =			571.526								
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	09/06/69-07/12/77	31	0.	0.018	0.55	0.	0.01	0.099	0.	0.	0.	0.008
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	01/23/68-04/01/82	77	2611.	2731.519	5221.	250.	938035.121	968.522	1628.2	1965.	3506.5	3991.8
71900	MERCURY, TOTAL (UG/L AS HG)	08/02/79-11/05/81	6 ##	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: HOVE0040

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/15 Obs	7/01-10/15 Exceed	7/01-10/15 Prop.	10/16-12/31 Obs	10/16-12/31 Exceed	10/16-12/31 Prop.	1/01-3/15 Obs	1/01-3/15 Exceed	1/01-3/15 Prop.	3/16-6/30 Obs	3/16-6/30 Exceed	3/16-6/30 Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	65	51	0.78	20	15	0.75	14	11	0.79	13	11	0.85	18	14	0.78
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	48	0	0.00	12	0	0.00	13	0	0.00	10	0	0.00	13	0	0.00
00400	PH	Fresh Chronic	9.	81	2	0.02	23	0	0.00	19	1	0.05	15	0	0.00	24	1	0.04
		Other-Lo Lim.	6.5	81	0	0.00	23	0	0.00	19	0	0.00	15	0	0.00	24	0	0.00
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	51	0	0.00	10	0	0.00	14	0	0.00	10	0	0.00	17	0	0.00
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	56	4	0.07	15	0	0.00	14	2	0.14	11	1	0.09	16	1	0.06
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	18	1	0.06	4	0	0.00	6	1	0.17	4	0	0.00	4	0	0.00
00723	CYANIDE, DISSOLVED STD METHOD	Fresh Acute	22.	62	0	0.00	16	0	0.00	17	0	0.00	11	0	0.00	18	0	0.00
		Drinking Water	200.	62	0	0.00	16	0	0.00	17	0	0.00	11	0	0.00	18	0	0.00
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	66	0	0.00	18	0	0.00	15	0	0.00	13	0	0.00	20	0	0.00
		Drinking Water	250.	66	0	0.00	18	0	0.00	15	0	0.00	13	0	0.00	20	0	0.00
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	72	70	0.97	18	18	1.00	19	18	0.95	15	14	0.93	20	20	1.00
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	34	0	0.00	12	0	0.00	5	0	0.00	6	0	0.00	11	0	0.00
00998	BERYLLIUM,TOTAL RECOVERABLE IN WATER AS	Fresh Acute	130.	6	0	0.00				3	0	0.00				3	0	0.00
		Drinking Water	4.	0 &	0	0.00												
01002	ARSENIC, TOTAL	Fresh Acute	360.	59	0	0.00	18	0	0.00	12	0	0.00	13	0	0.00	16	0	0.00
		Drinking Water	50.	59	0	0.00	18	0	0.00	12	0	0.00	13	0	0.00	16	0	0.00

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

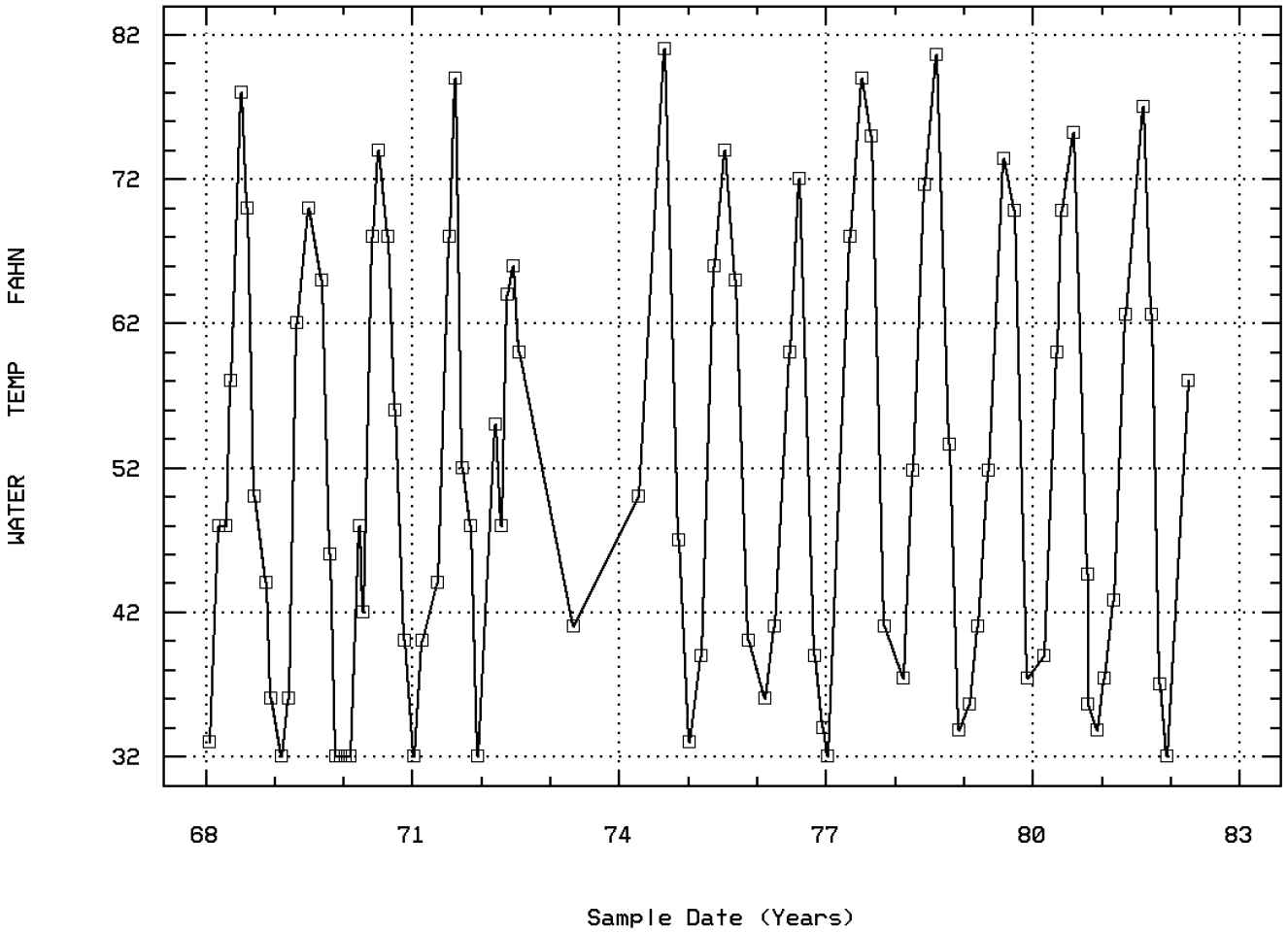
EPA Water Quality Criteria Analysis for Station: HOVE0040

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/15 Obs	7/01-10/15 Exceed	7/01-10/15 Prop.	10/16-12/31 Obs	10/16-12/31 Exceed	10/16-12/31 Prop.	1/01-3/15 Obs	1/01-3/15 Exceed	1/01-3/15 Prop.	3/16-6/30 Obs	3/16-6/30 Exceed	3/16-6/30 Prop.
01032	CHROMIUM, HEXAVALENT	Fresh Acute	16.	27	0	0.00	9	0	0.00	5	0	0.00	5	0	0.00	8	0	0.00
		Drinking Water	100.	27	0	0.00	9	0	0.00	5	0	0.00	5	0	0.00	8	0	0.00
01074	NICKEL, TOTAL RECOVERABLE IN WATER AS NI	Fresh Acute	1400.	7	0	0.00				3	0	0.00				4	0	0.00
		Drinking Water	100.	7	0	0.00				3	0	0.00				4	0	0.00
01079	SILVER, TOTAL RECOVERABLE IN WATER AS AG	Fresh Acute	4.1	23 &	0	0.00	4	0	0.00	8	0	0.00	3	0	0.00	8	0	0.00
		Drinking Water	100.	24	0	0.00	4	0	0.00	8	0	0.00	3	0	0.00	9	0	0.00
01094	ZINC, TOTAL RECOVERABLE IN WATER AS ZN	Fresh Acute	120.	75	9	0.12	19	3	0.16	19	3	0.16	16	3	0.19	21	0	0.00
		Drinking Water	5000.	75	0	0.00	19	0	0.00	19	0	0.00	16	0	0.00	21	0	0.00
01113	CADMIUM,TOTAL RECOVERABLE IN WATER AS CD	Fresh Acute	3.9	70	0	0.00	19	0	0.00	16	0	0.00	16	0	0.00	19	0	0.00
		Drinking Water	5.	70	0	0.00	19	0	0.00	16	0	0.00	16	0	0.00	19	0	0.00
01114	LEAD, TOTAL RECOVERABLE IN WATER AS PB	Fresh Acute	82.	61	1	0.02	18	0	0.00	13	1	0.08	13	0	0.00	17	0	0.00
		Drinking Water	15.	61	10	0.16	18	1	0.06	13	1	0.08	13	4	0.31	17	4	0.24
01118	CHROMIUM TOTAL RECOVERABLE IN WATER AS C	Drinking Water	100.	7	0	0.00	3	0	0.00	1	0	0.00	1	0	0.00	2	0	0.00
01119	COPPER, TOTAL RECOVERABLE IN WATER AS CU	Fresh Acute	18.	60	9	0.15	18	2	0.11	12	1	0.08	13	5	0.38	17	1	0.06
		Drinking Water	1300.	60	0	0.00	18	0	0.00	12	0	0.00	13	0	0.00	17	0	0.00
01147	SELENIUM, TOTAL	Fresh Acute	20.	60	1	0.02	16	0	0.00	14	1	0.07	12	0	0.00	18	0	0.00
		Drinking Water	50.	60	0	0.00	16	0	0.00	14	0	0.00	12	0	0.00	18	0	0.00
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	3	0	0.00				1	0	0.00				2	0	0.00
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	57	51	0.89	17	13	0.76	13	12	0.92	10	9	0.90	17	17	1.00
31615	FECAL COLIFORM, MPN	Other-Hi Lim.	200.	76 &	51	0.67	21	14	0.67	20	13	0.65	14	7	0.50	21	17	0.81
71900	MERCURY, TOTAL	Fresh Acute	2.4	6	0	0.00	1	0	0.00	3	0	0.00				2	0	0.00
		Drinking Water	2.	6	0	0.00	1	0	0.00	3	0	0.00				2	0	0.00

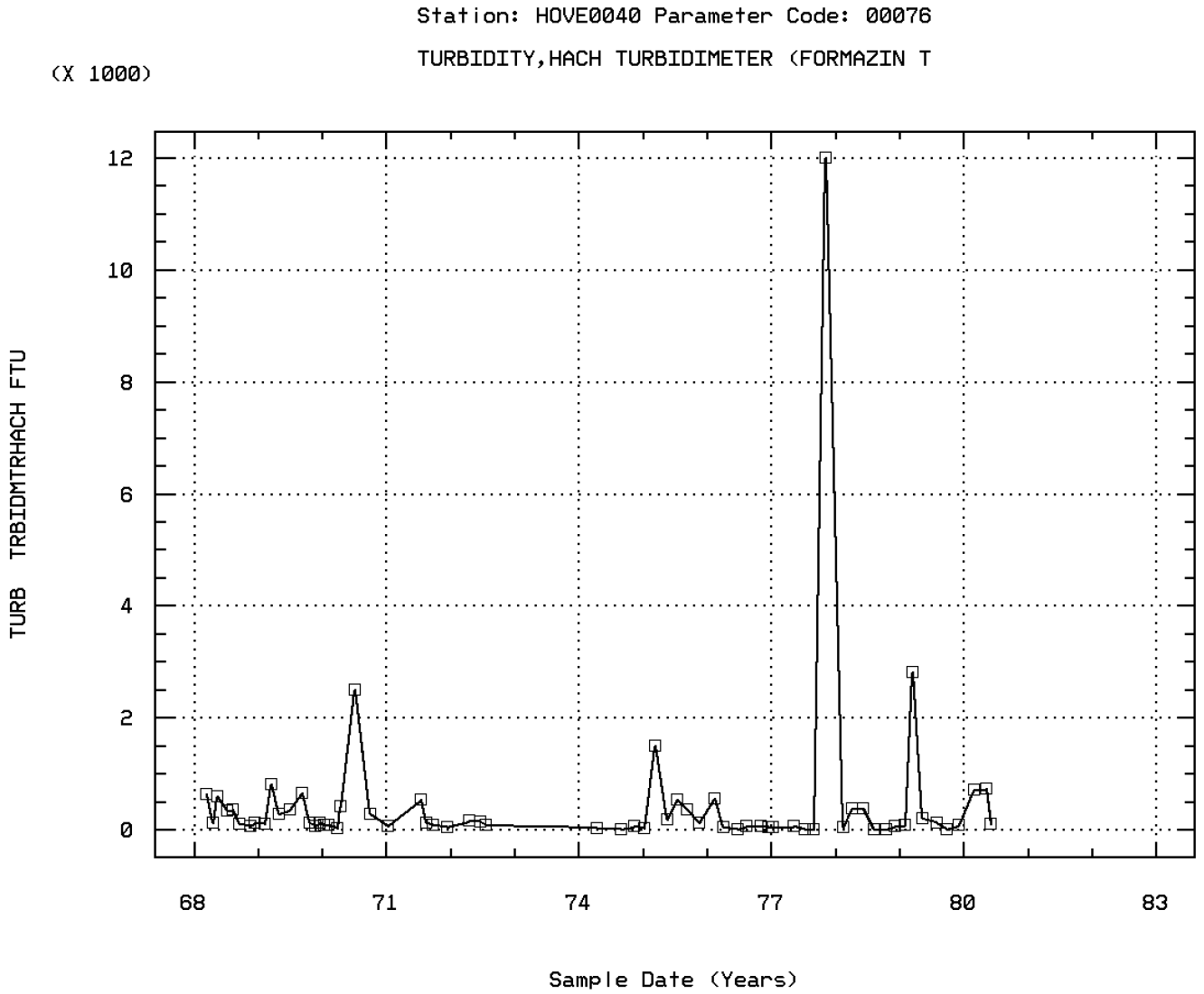
& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station: HOVE0040 Parameter Code: 00011

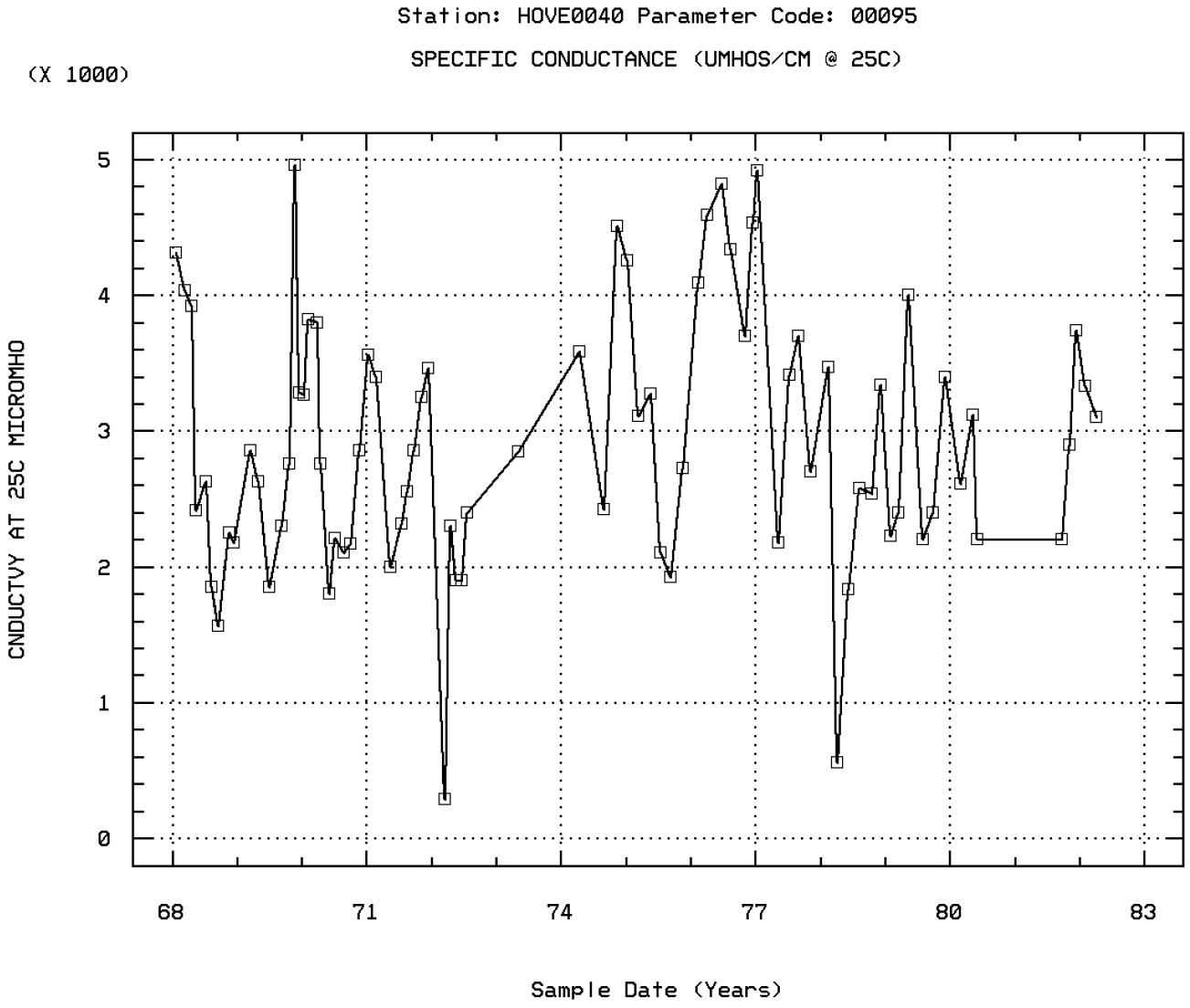
TEMPERATURE, WATER (DEGREES FAHRENHEIT)



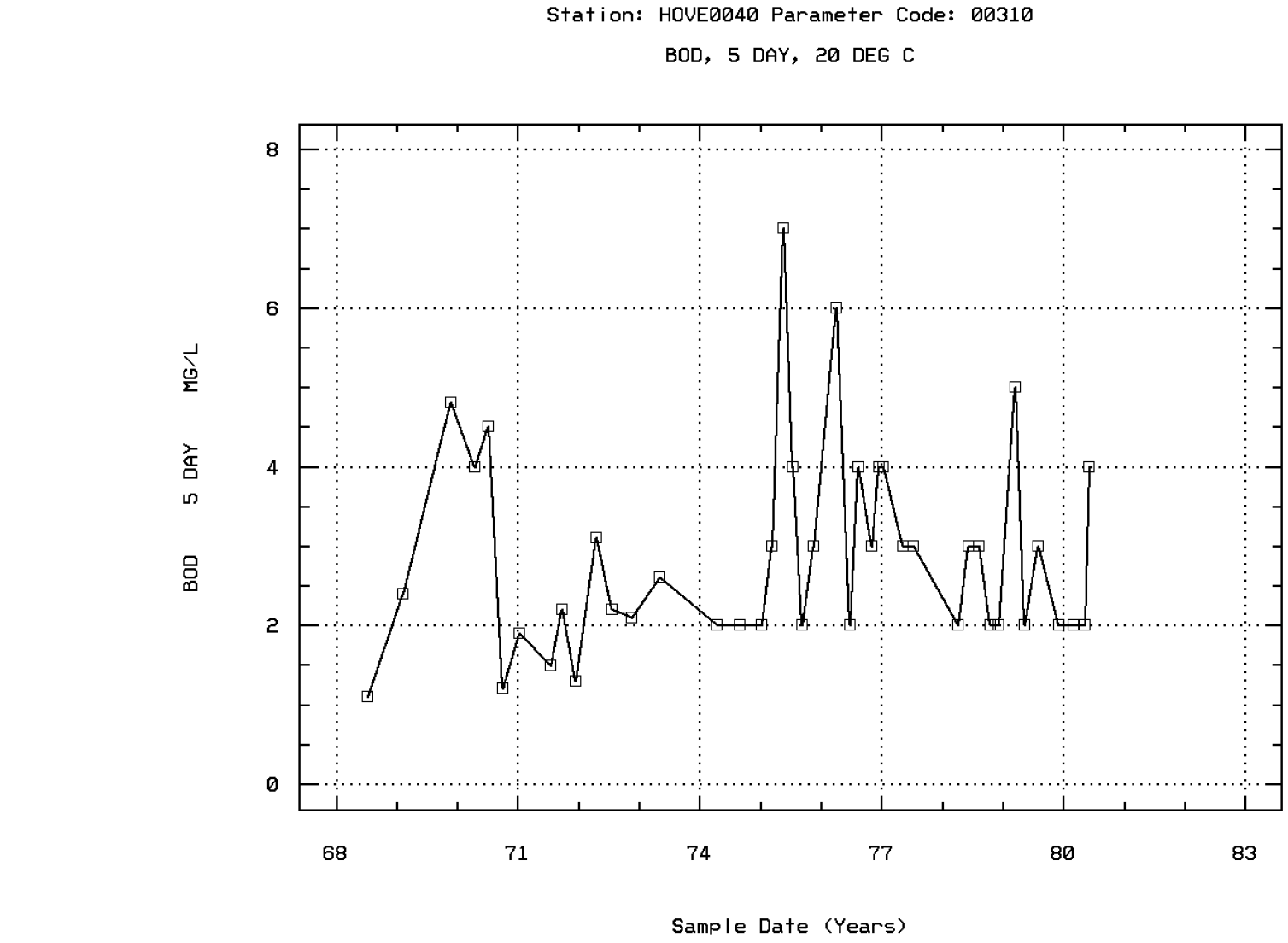
MCELMO CREEK WEST OF CORTEZ



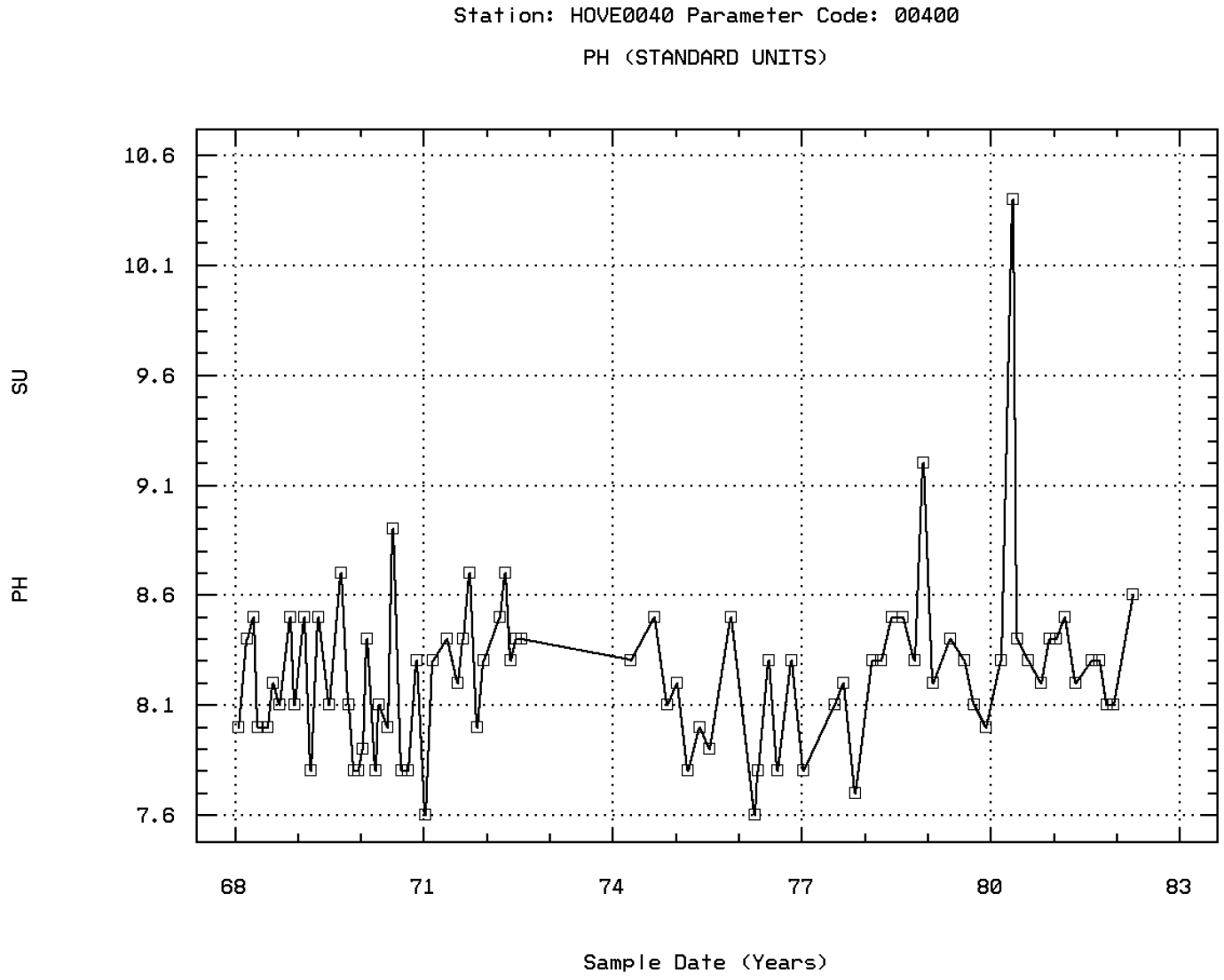
MCELMO CREEK WEST OF CORTEZ



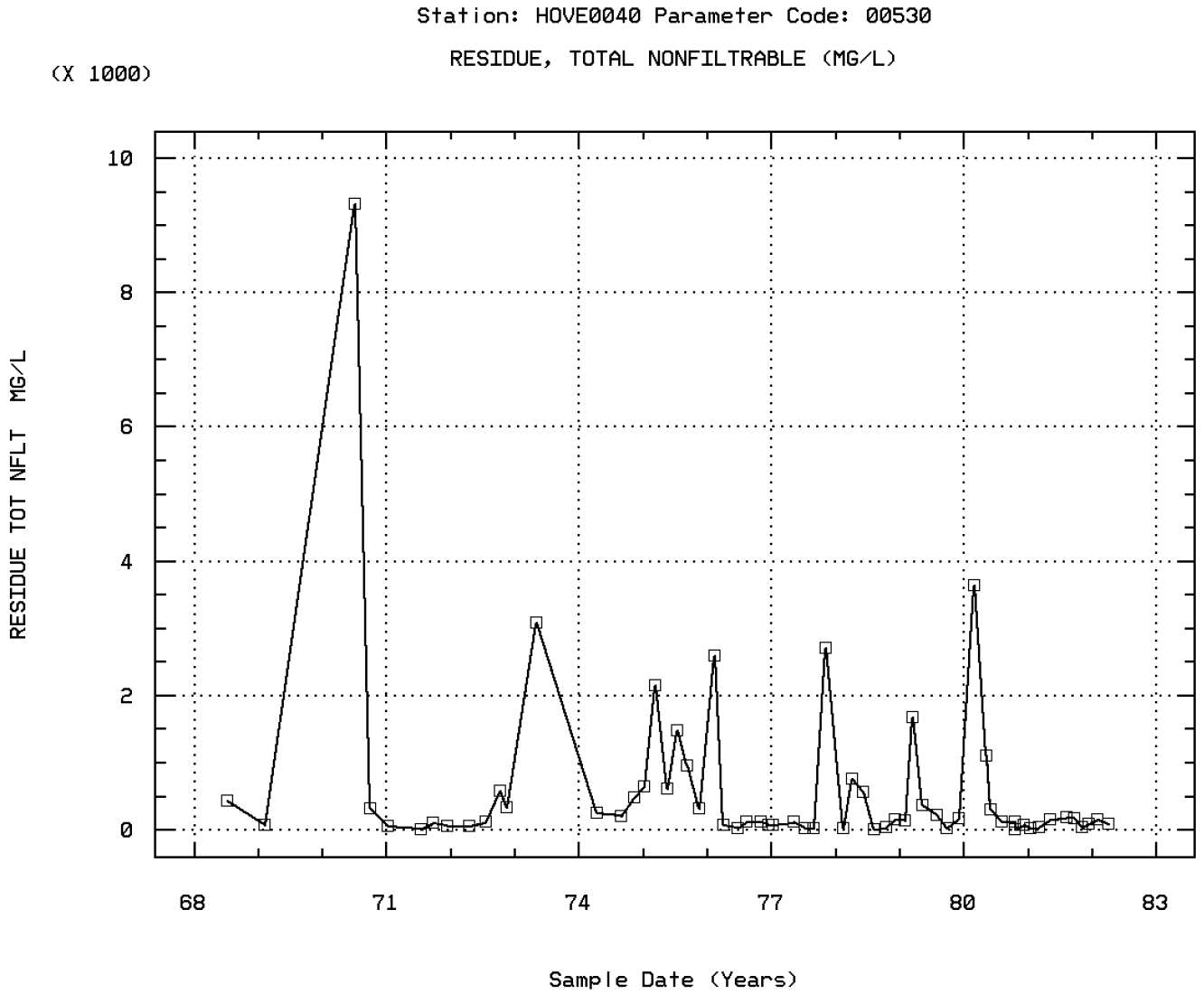
MCELMO CREEK WEST OF CORTEZ



MCELMO CREEK WEST OF CORTEZ



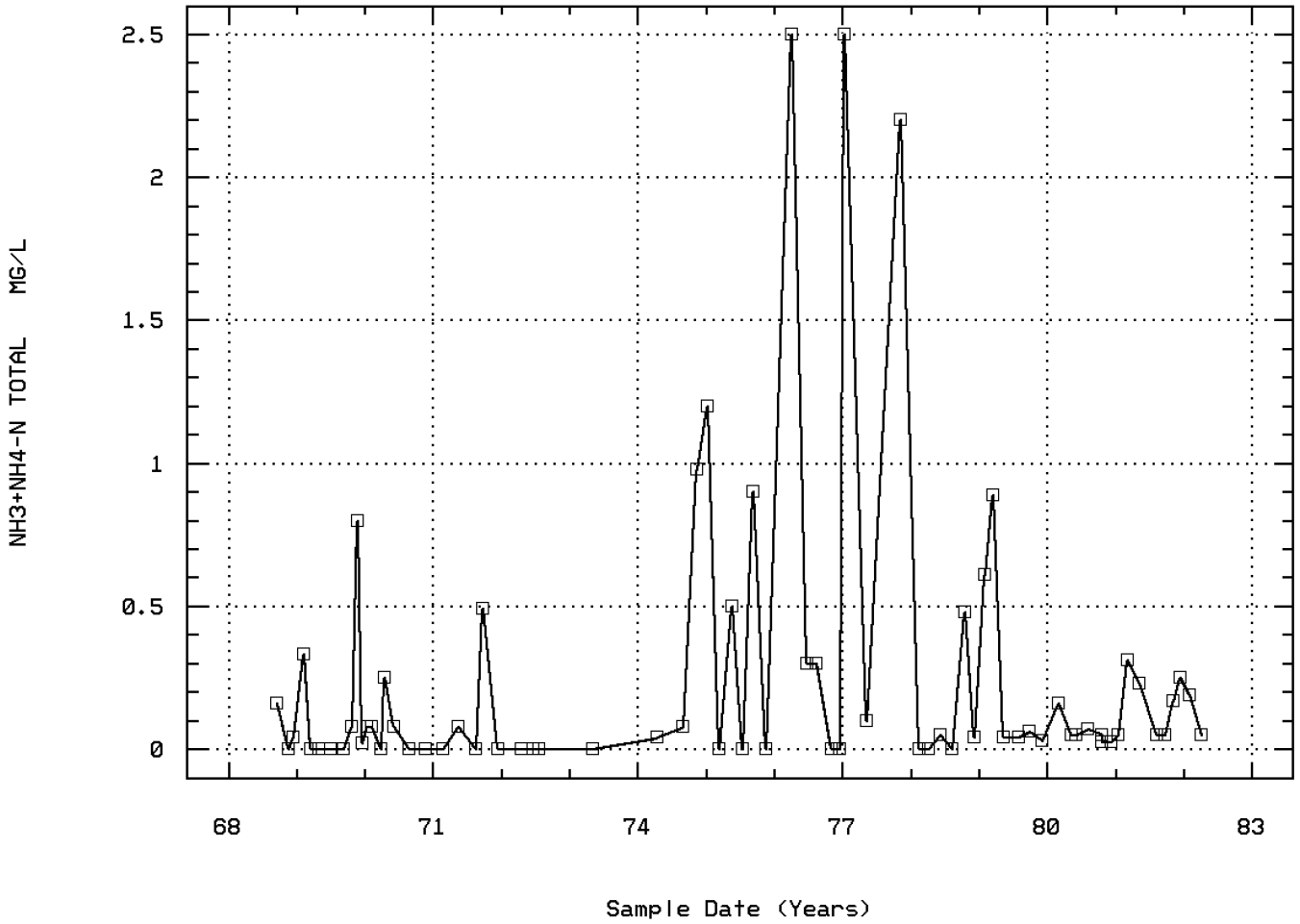
MCELMO CREEK WEST OF CORTEZ



MCELMO CREEK WEST OF CORTEZ

Station: HOVE0040 Parameter Code: 00610

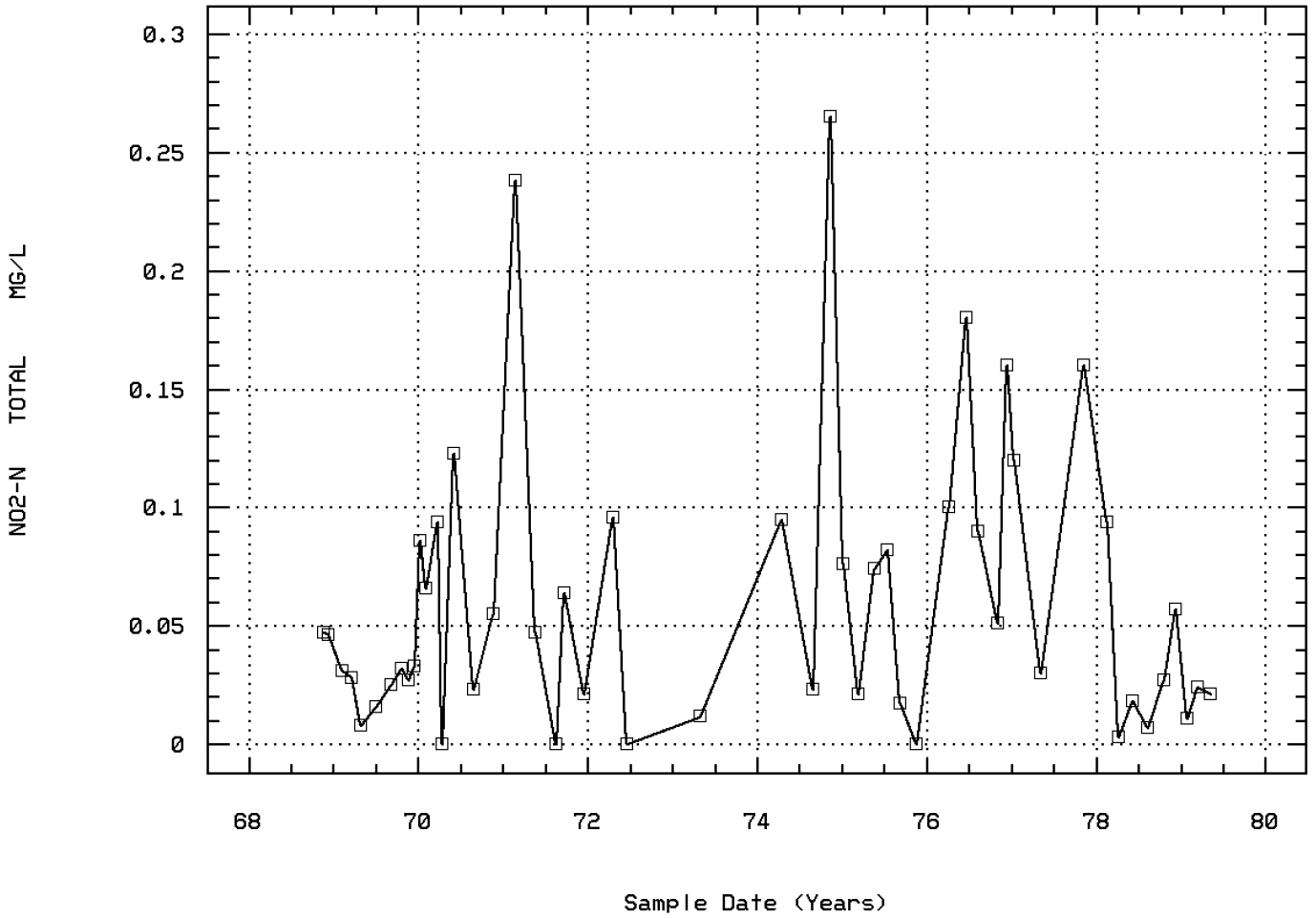
NITROGEN, AMMONIA, TOTAL (MG/L AS N)



MCELMO CREEK WEST OF CORTEZ

Station: HOVE0040 Parameter Code: 00615

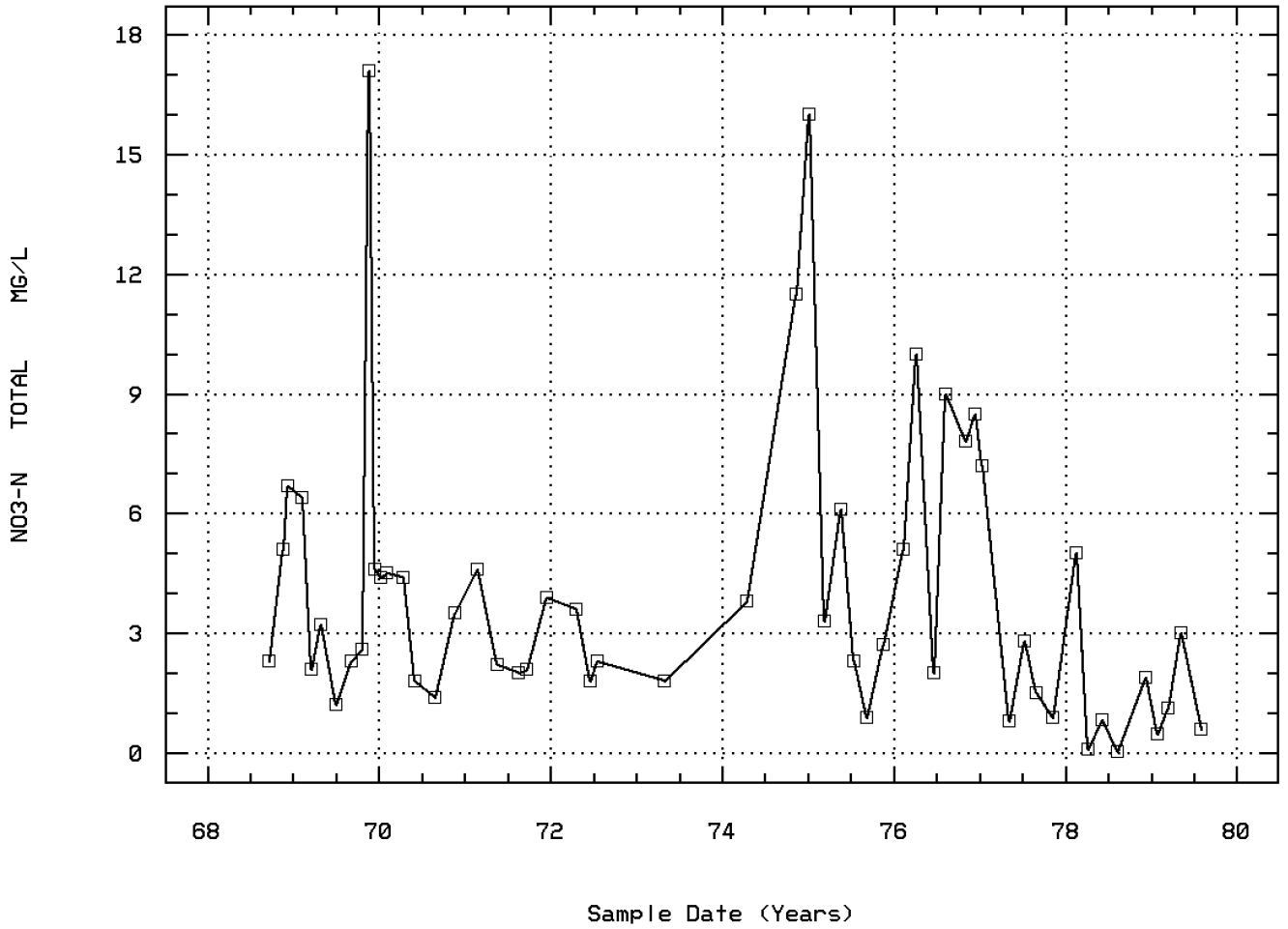
NITRITE NITROGEN, TOTAL (MG/L AS N)



MCELMO CREEK WEST OF CORTEZ

Station: HOVE0040 Parameter Code: 00620

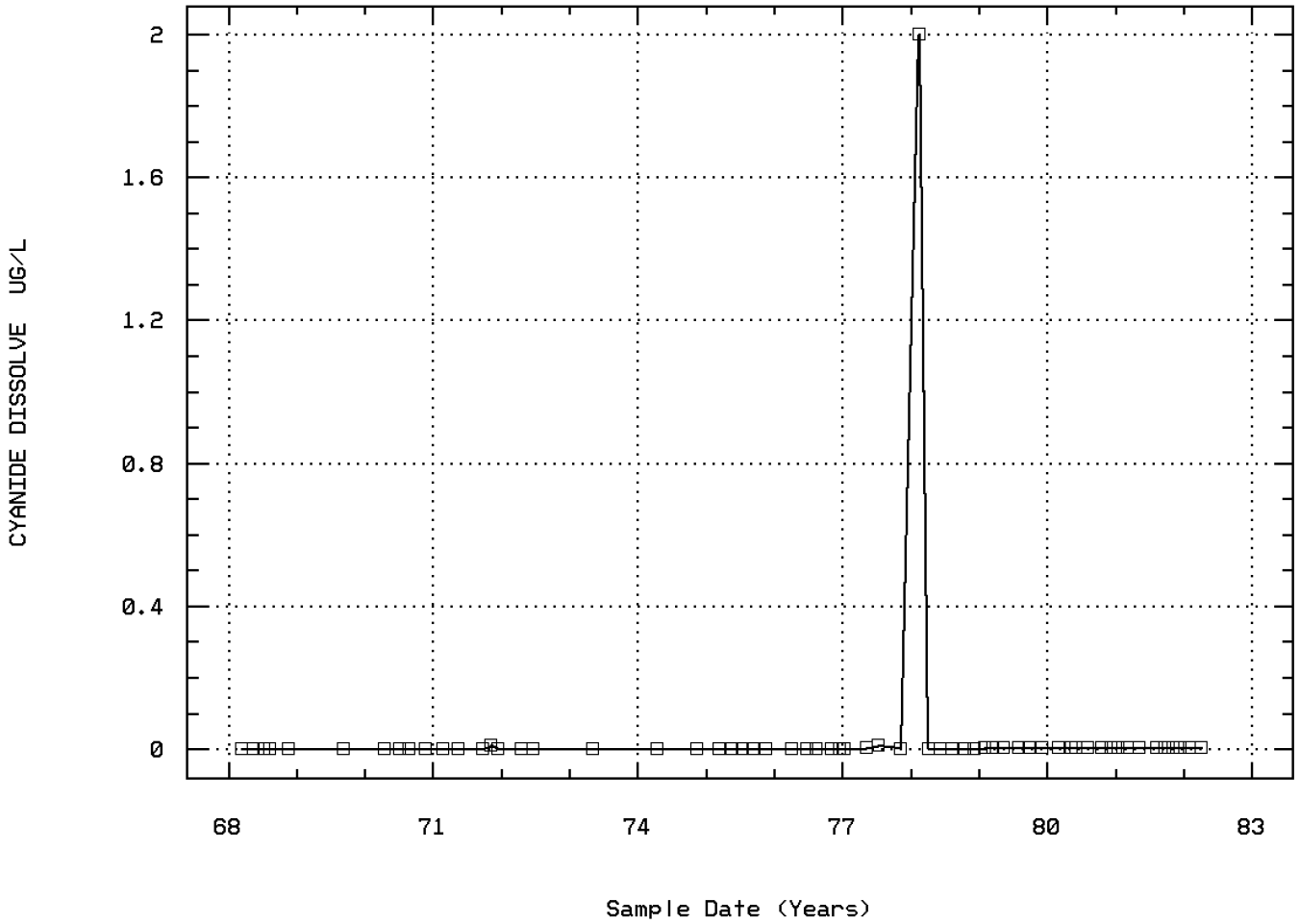
NITRATE NITROGEN, TOTAL (MG/L AS N)



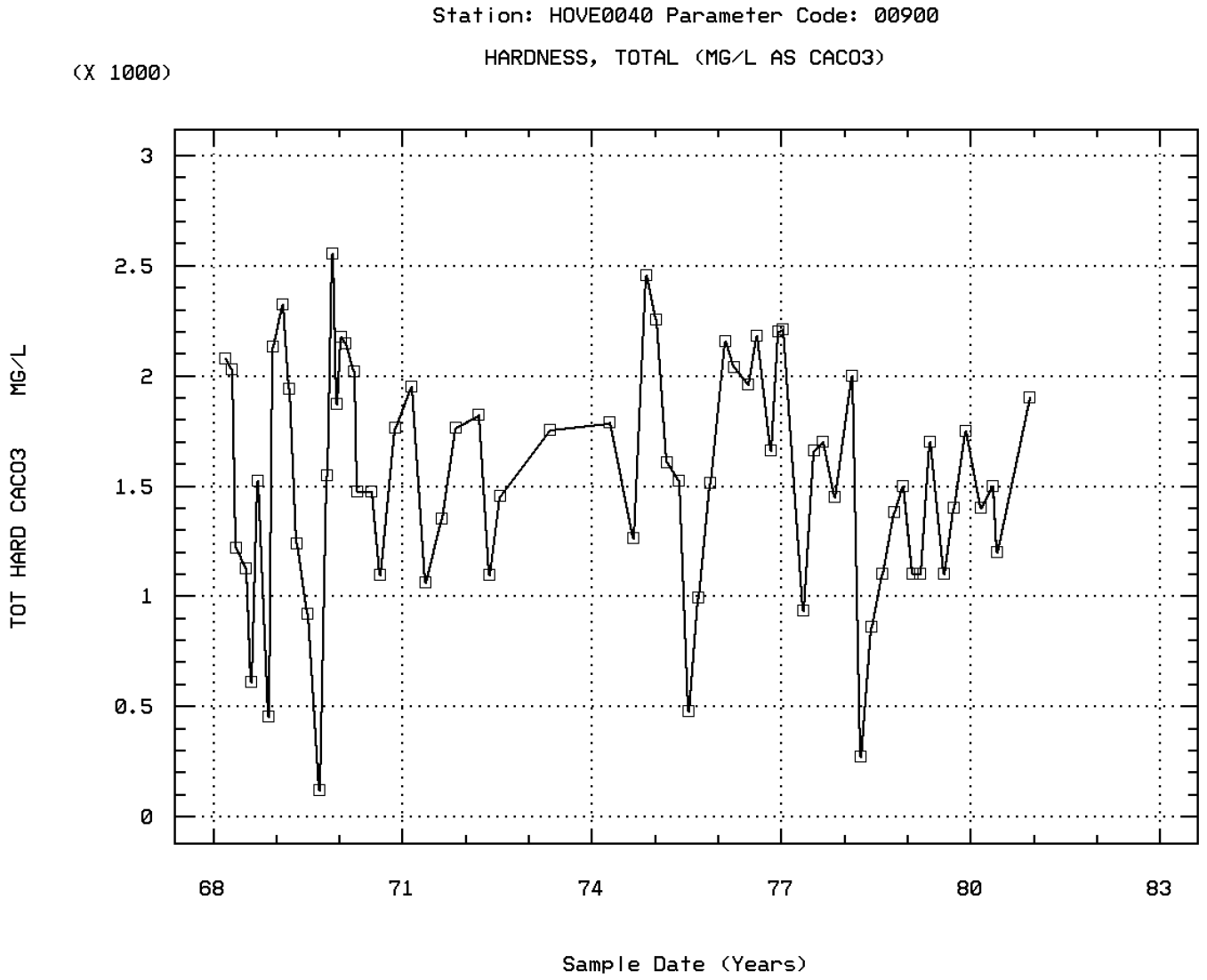
MCELMO CREEK WEST OF CORTEZ

Station: HOVE0040 Parameter Code: 00723

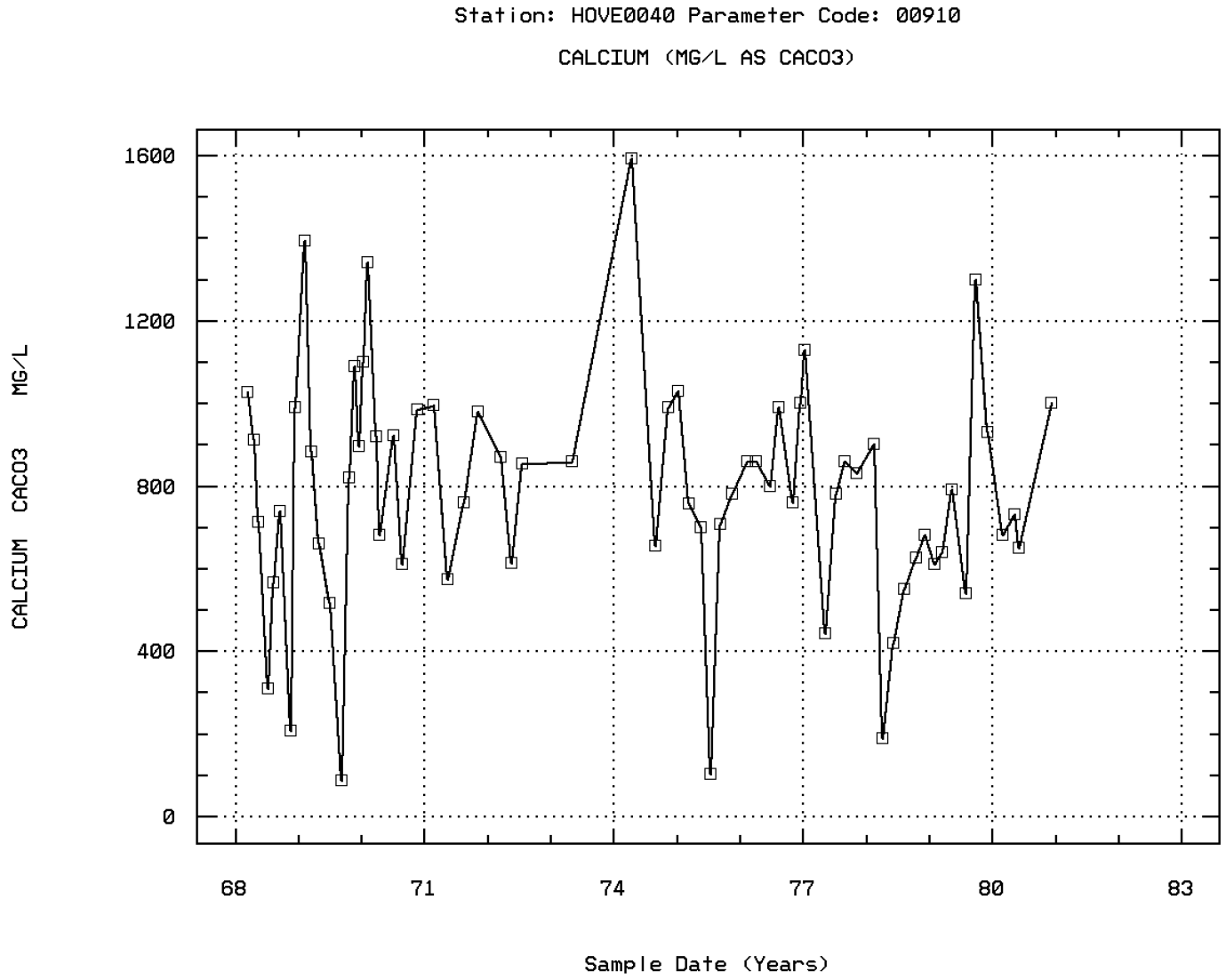
CYANIDE, DISSOLVED STD METHOD (UG/L



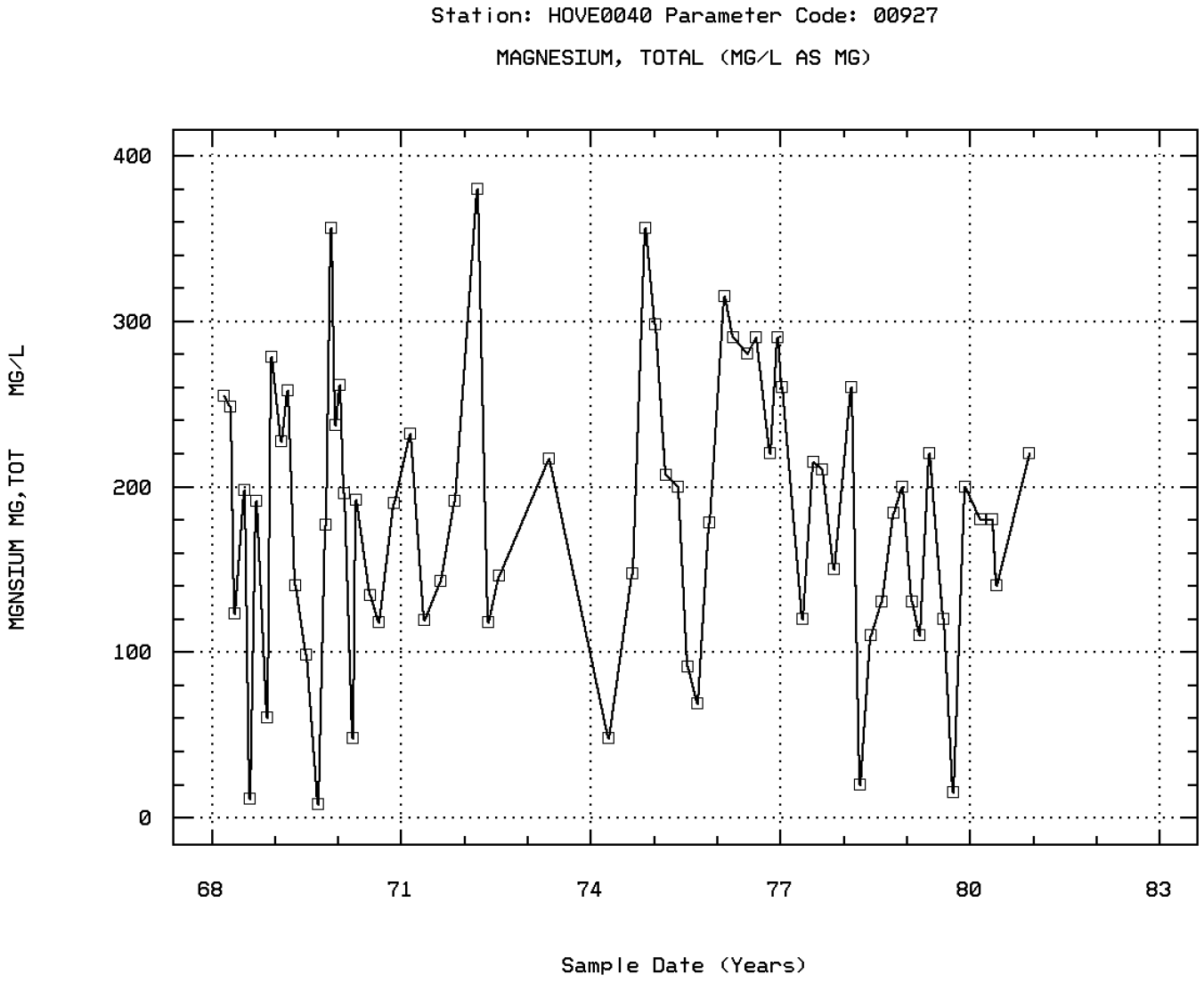
MCELMO CREEK WEST OF CORTEZ



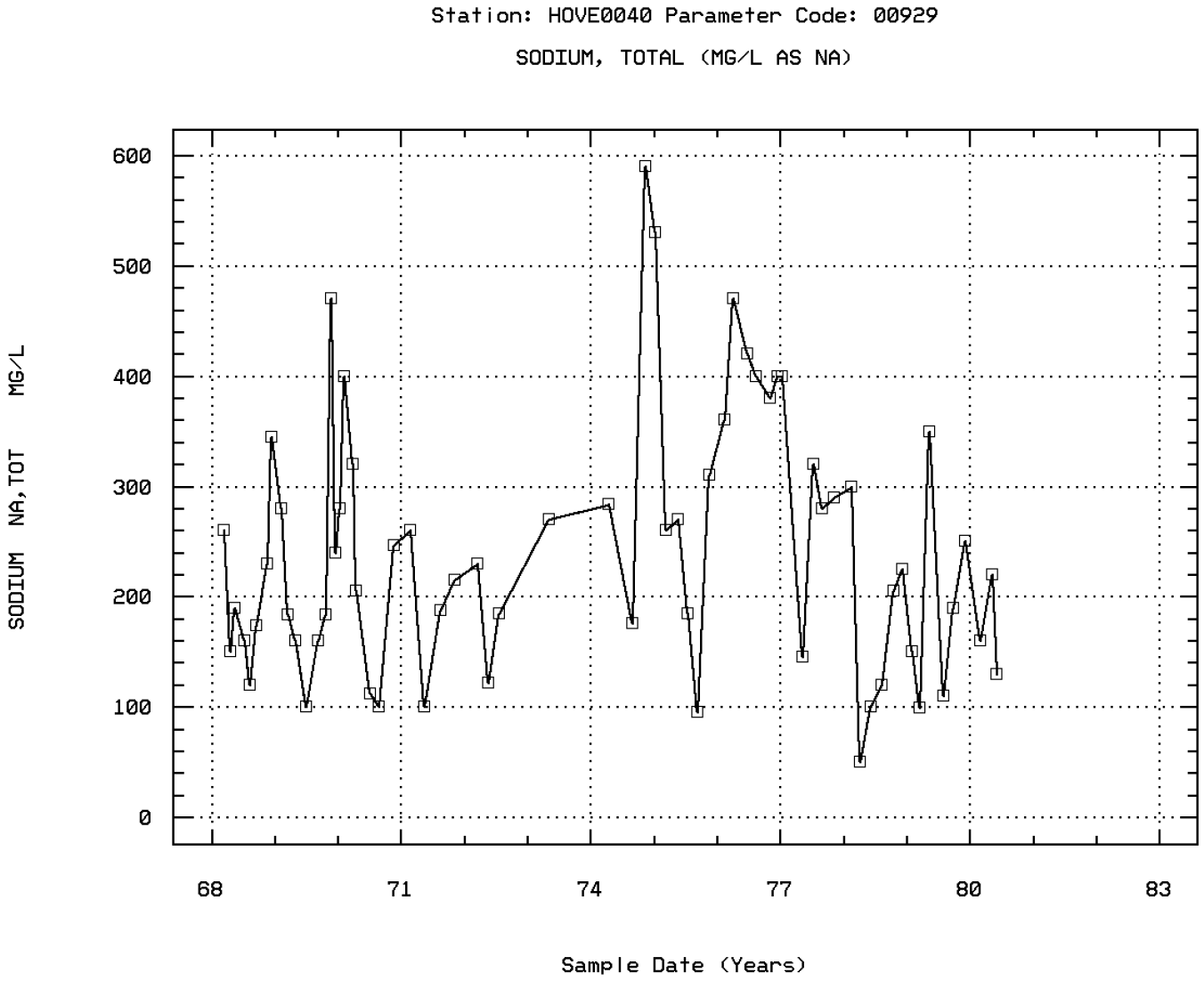
MCELMO CREEK WEST OF CORTEZ



MCELMO CREEK WEST OF CORTEZ



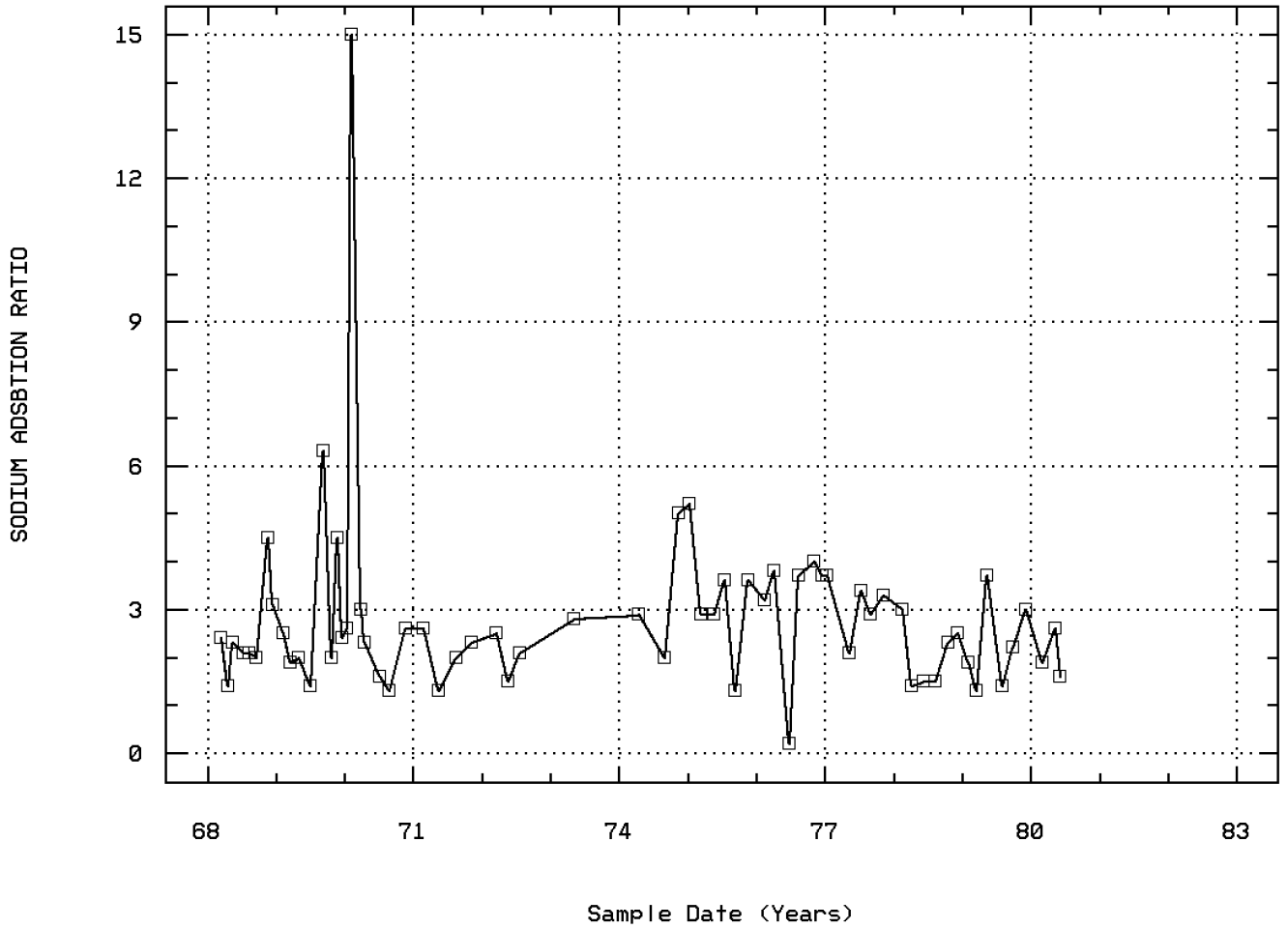
MCELMO CREEK WEST OF CORTEZ



MCELMO CREEK WEST OF CORTEZ

Station: HOVE0040 Parameter Code: 00931

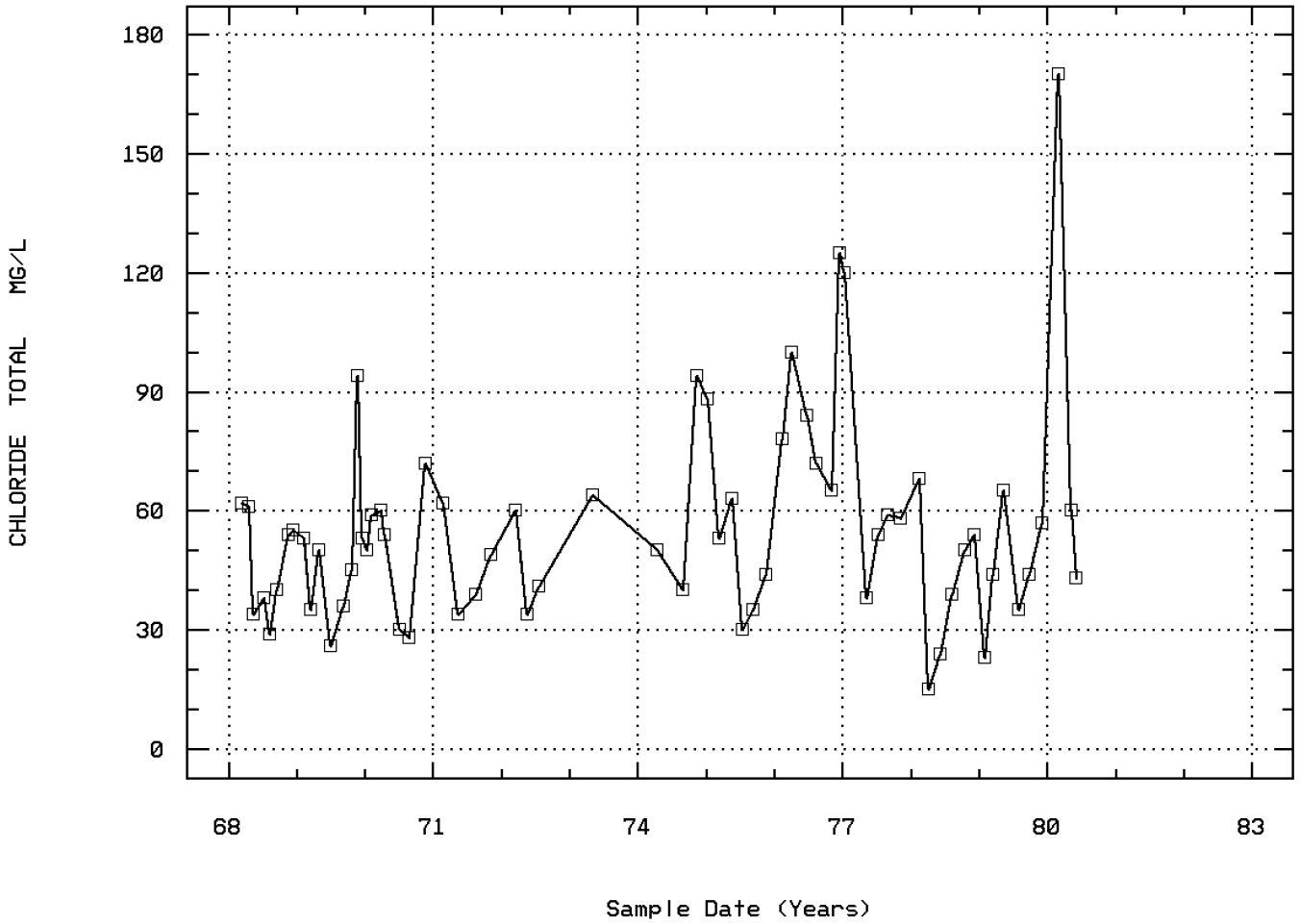
SODIUM ADSORPTION RATIO



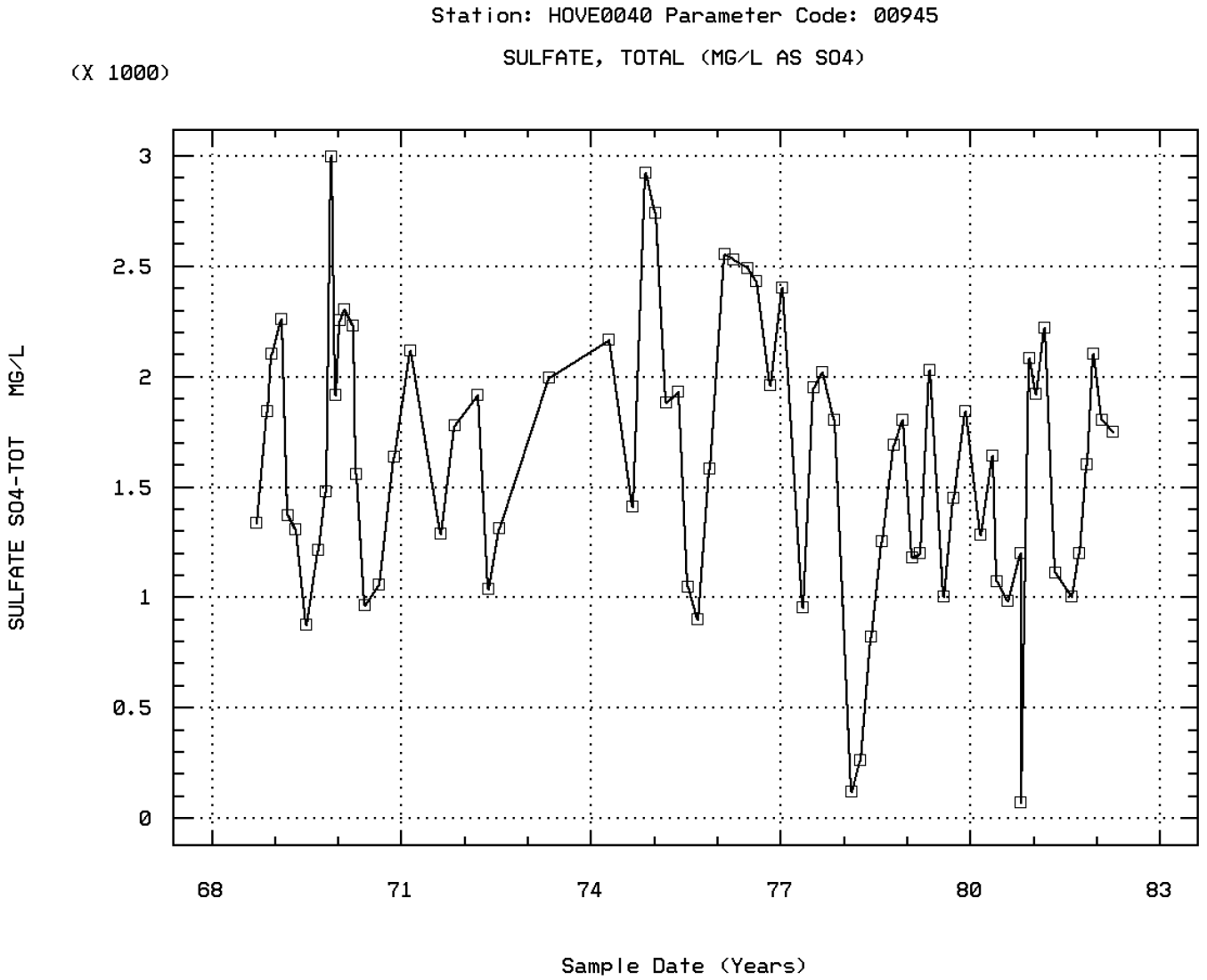
MCELMO CREEK WEST OF CORTEZ

Station: HOVE0040 Parameter Code: 00940

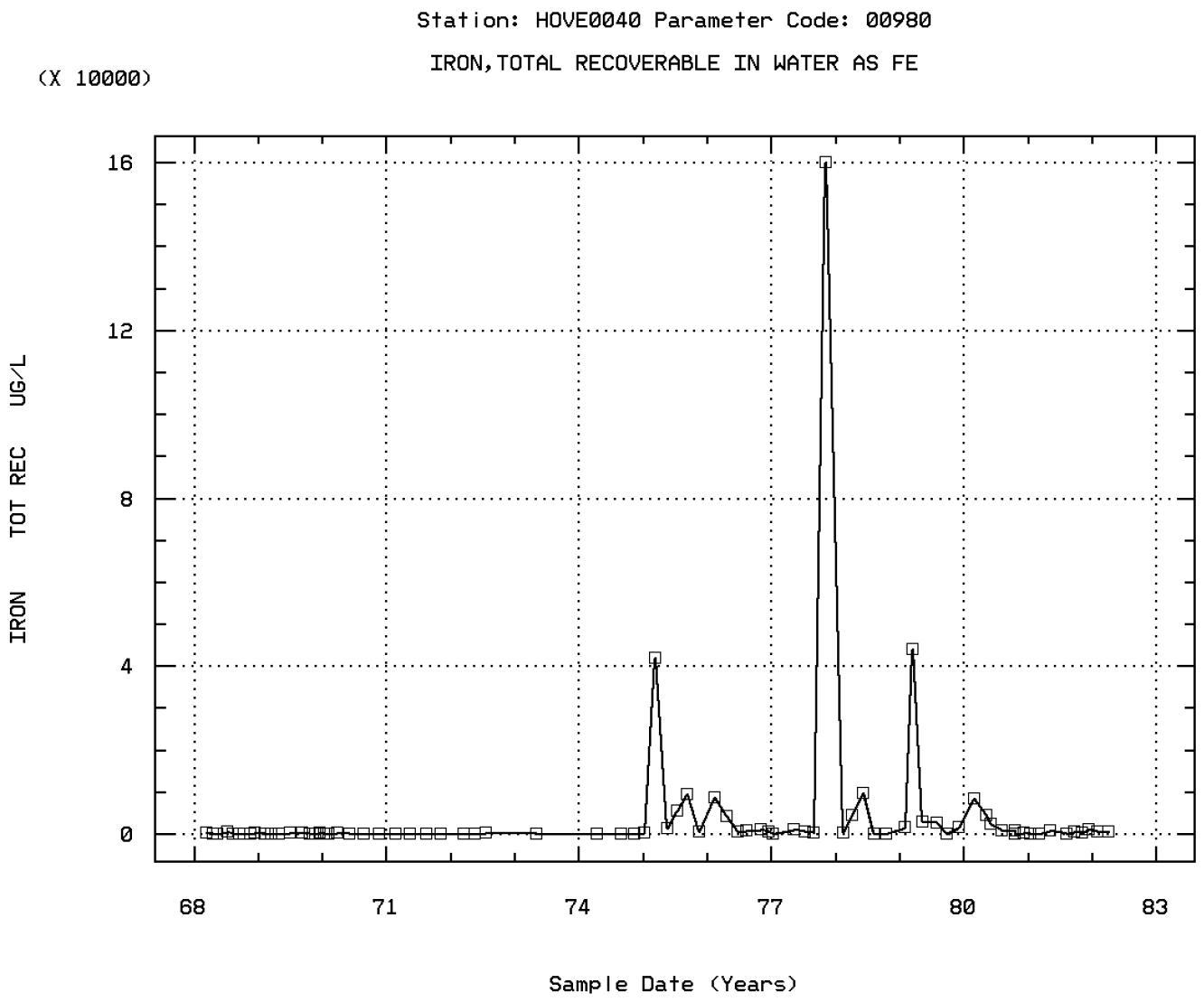
CHLORIDE,TOTAL IN WATER



MCELMO CREEK WEST OF CORTEZ



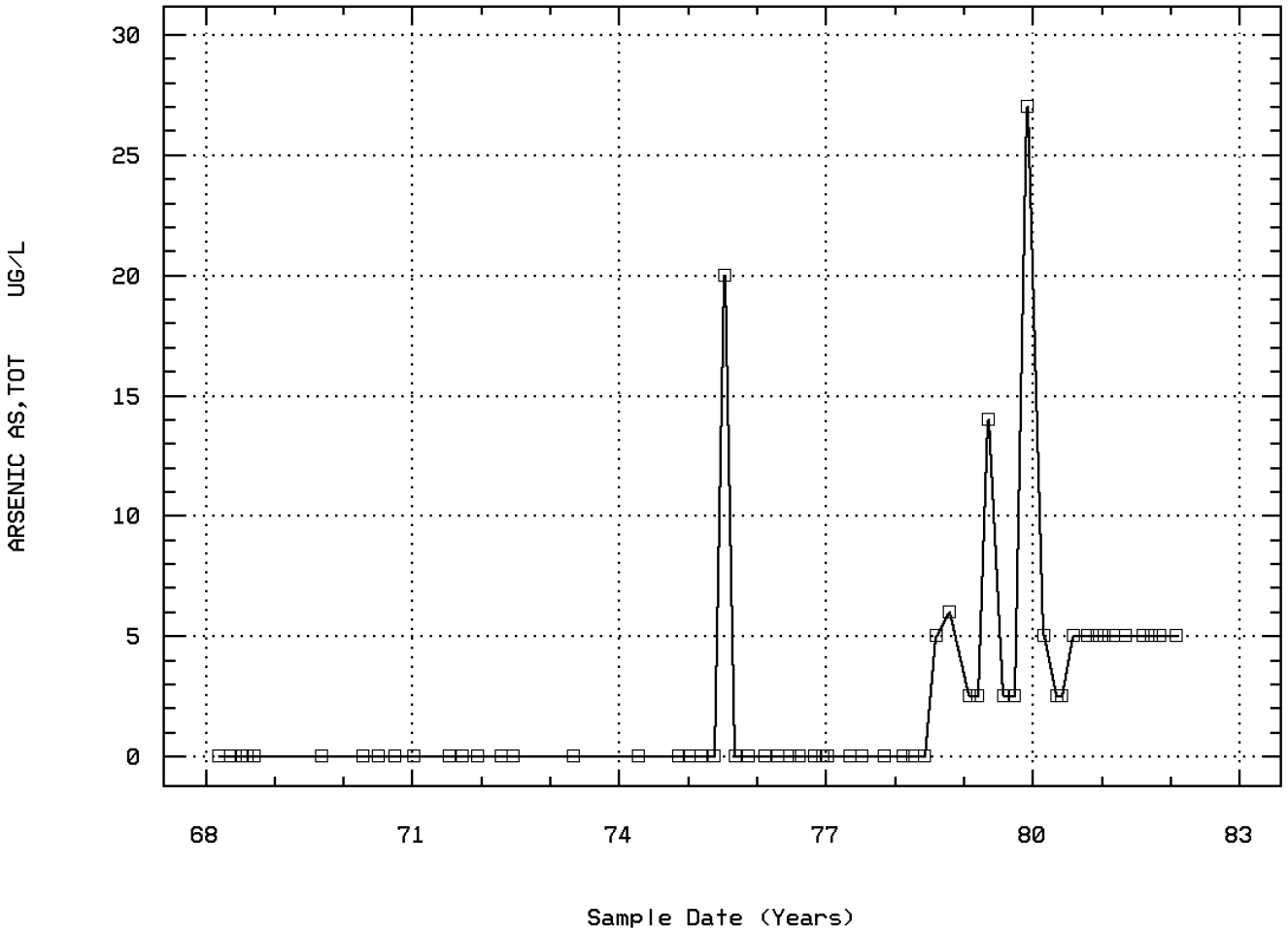
MCELMO CREEK WEST OF CORTEZ



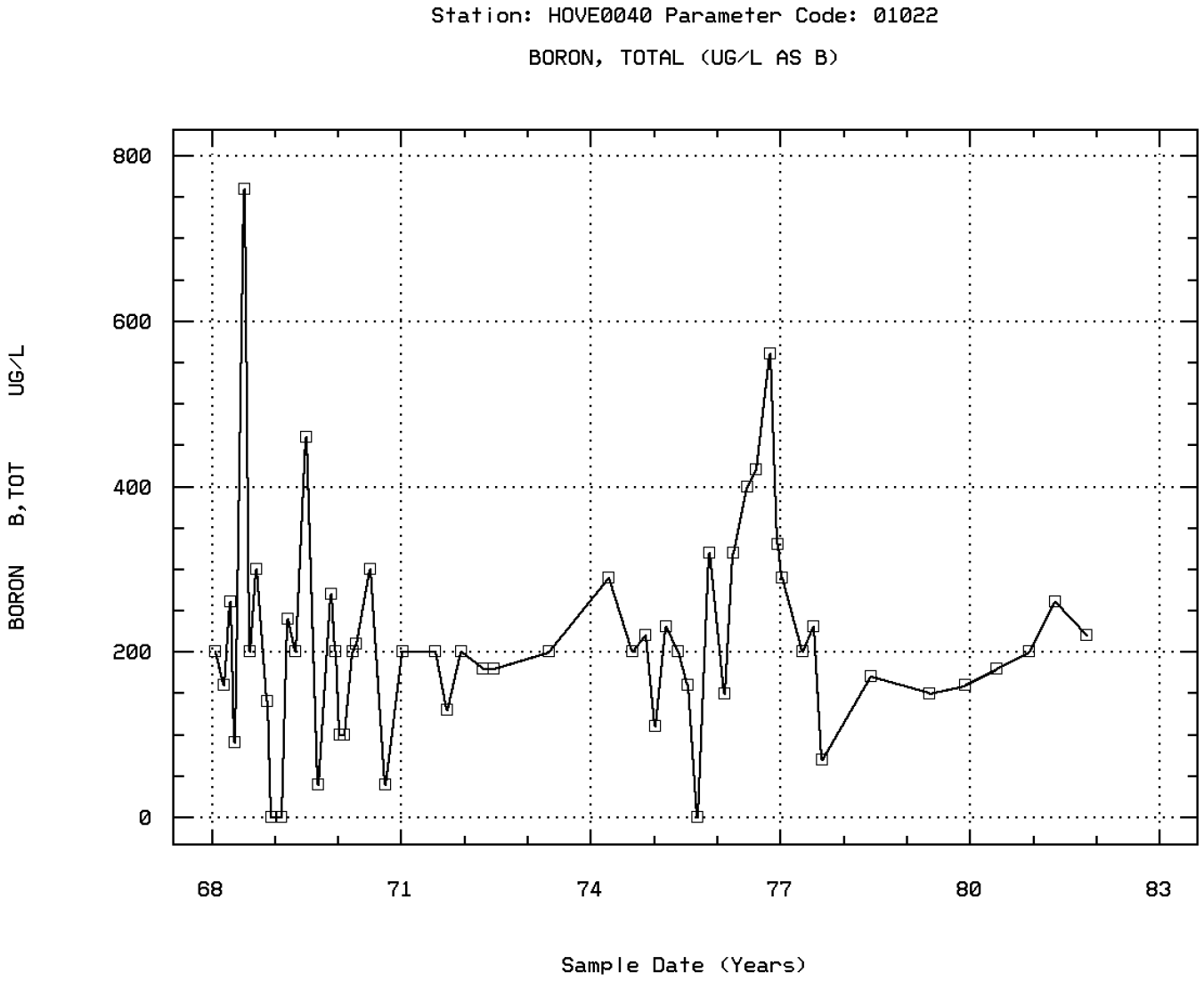
MCELMO CREEK WEST OF CORTEZ

Station: HOVE0040 Parameter Code: 01002

ARSENIC, TOTAL (UG/L AS AS)



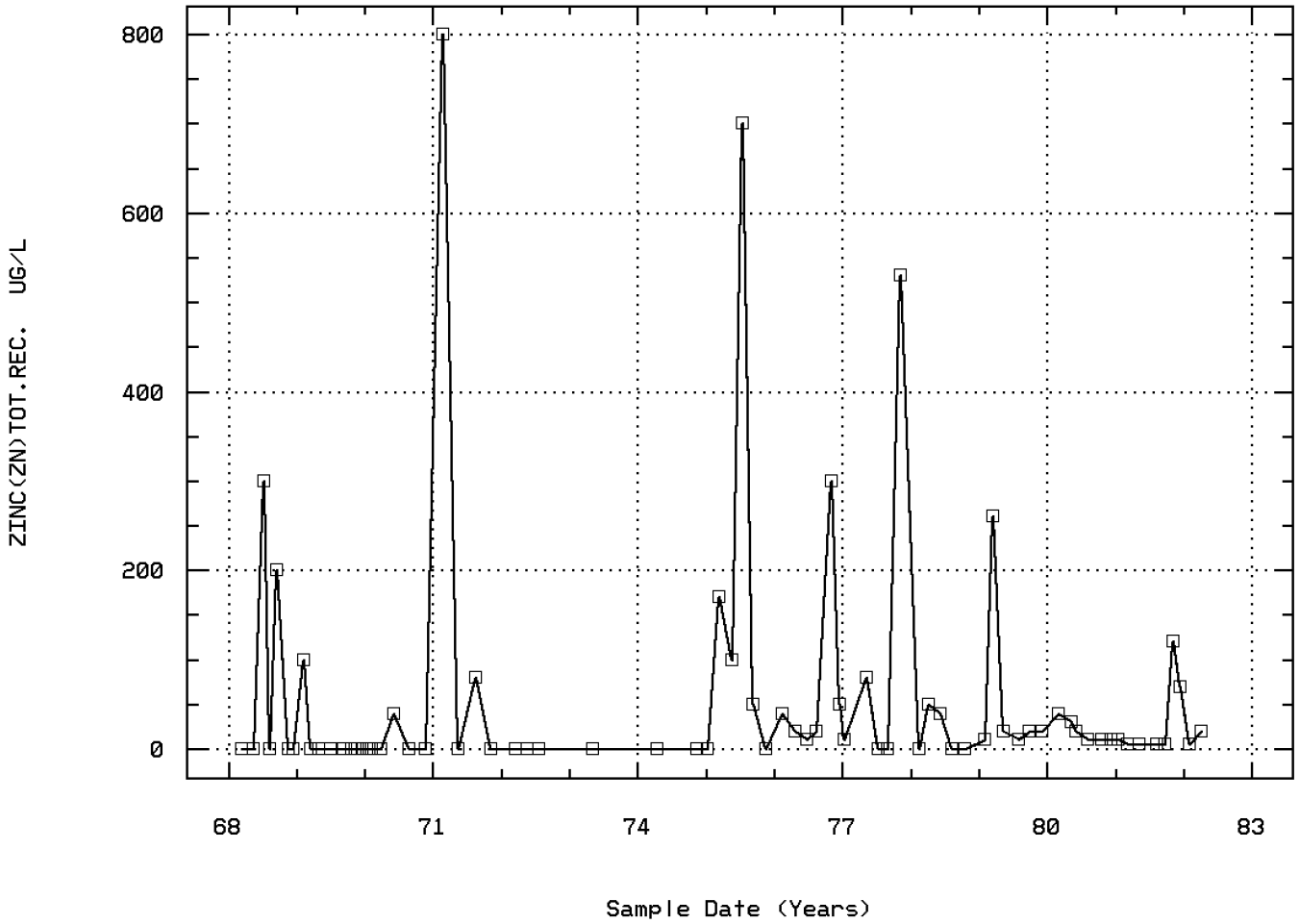
MCELMO CREEK WEST OF CORTEZ



MCELMO CREEK WEST OF CORTEZ

Station: HOVE0040 Parameter Code: 01094

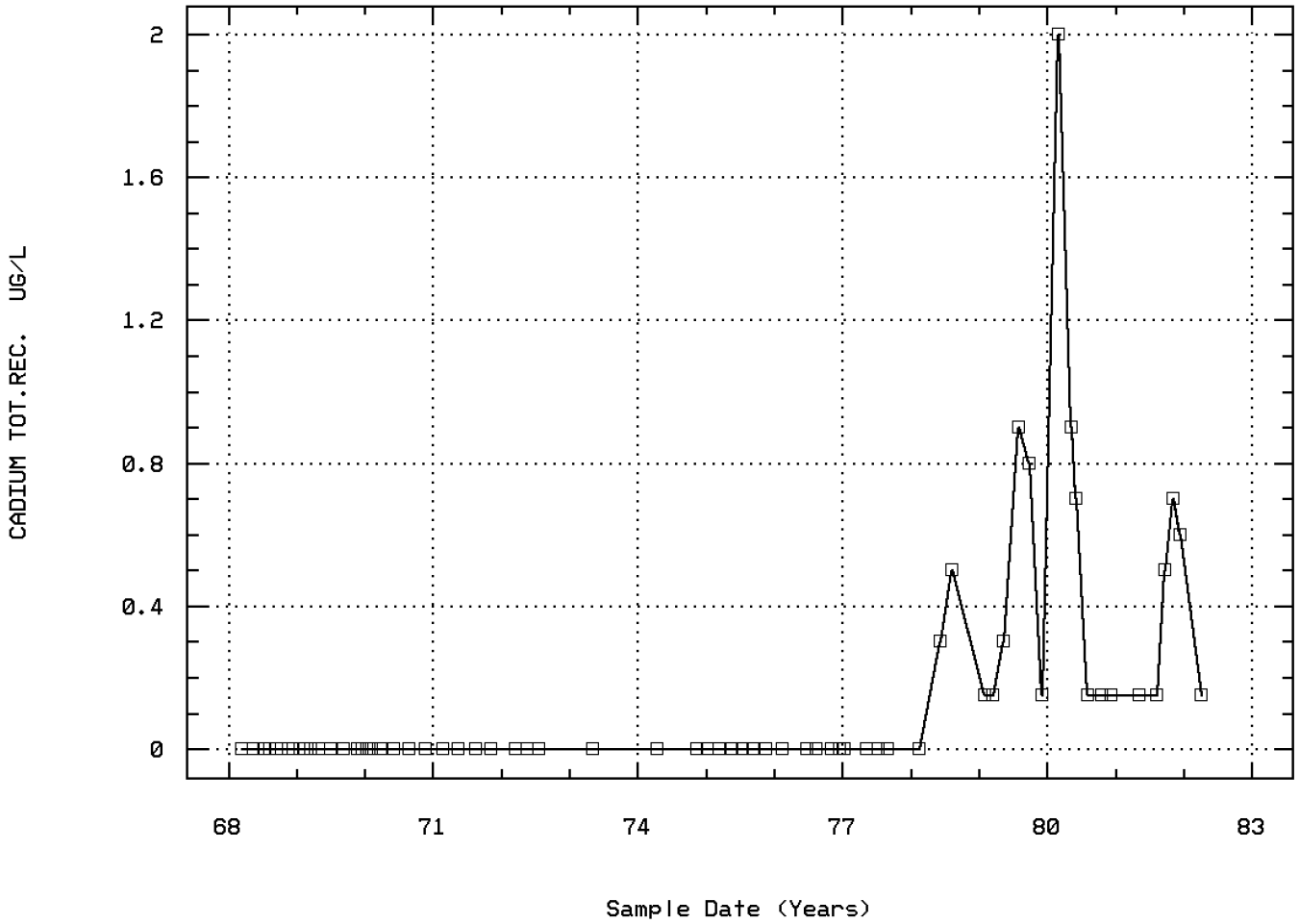
ZINC,TOTAL RECOVERABLE IN WATER AS ZN



MCELMO CREEK WEST OF CORTEZ

Station: HOVE0040 Parameter Code: 01113

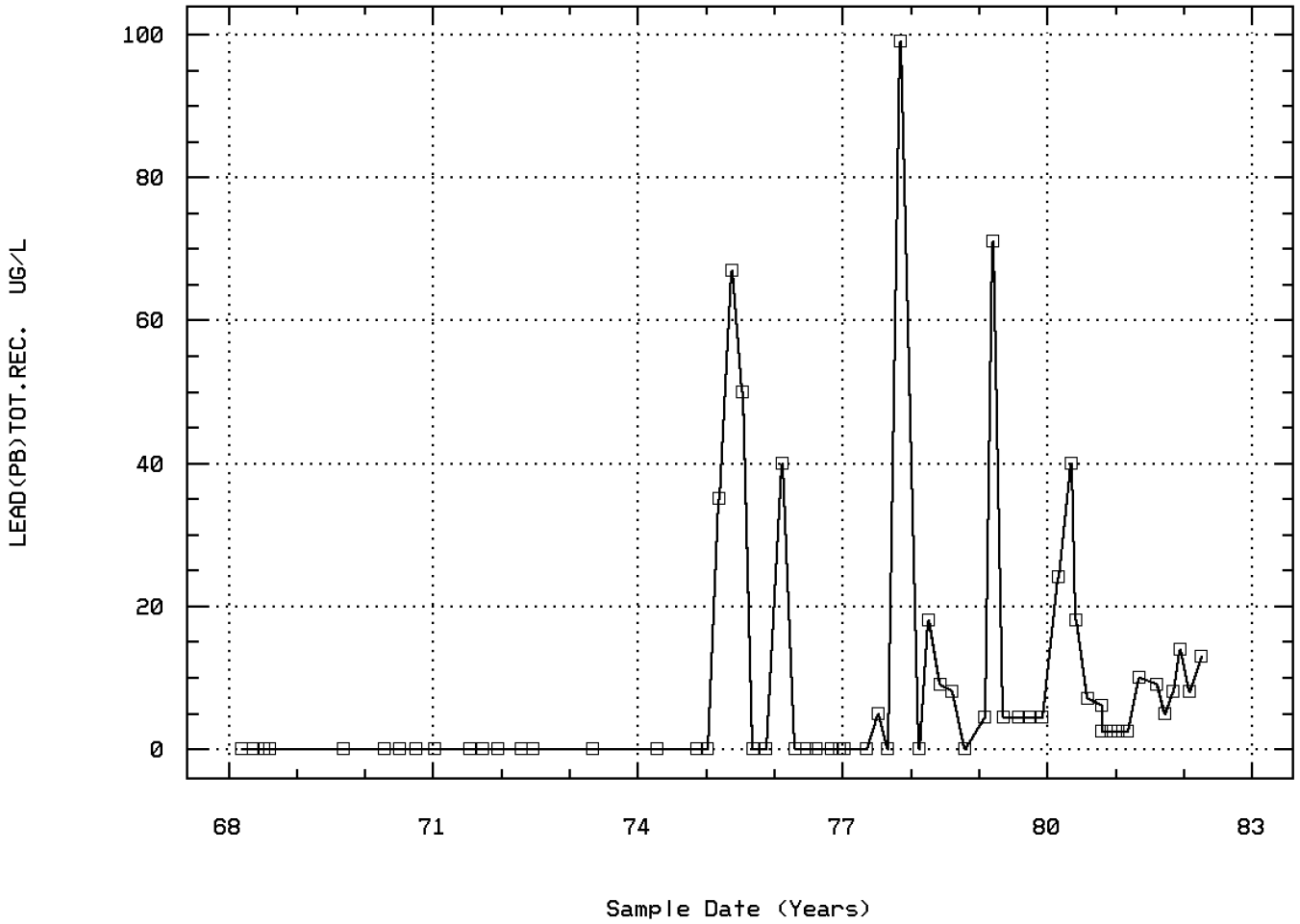
CADMIUM,TOTAL RECOVERABLE IN WATER AS C



MCELMO CREEK WEST OF CORTEZ

Station: HOVE0040 Parameter Code: 01114

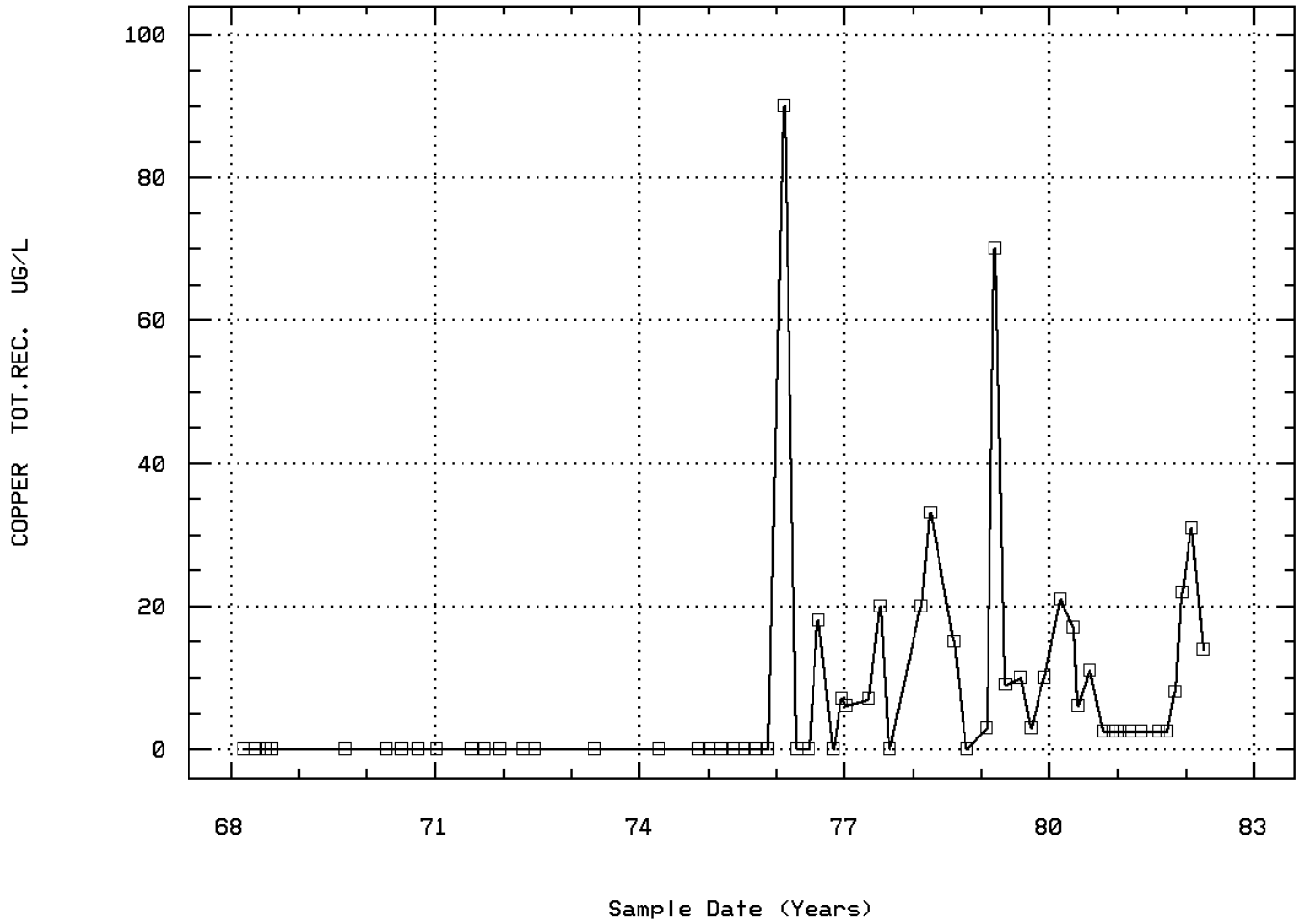
LEAD,TOTAL RECOVERABLE IN WATER AS PB



MCELMO CREEK WEST OF CORTEZ

Station: HOVE0040 Parameter Code: 01119

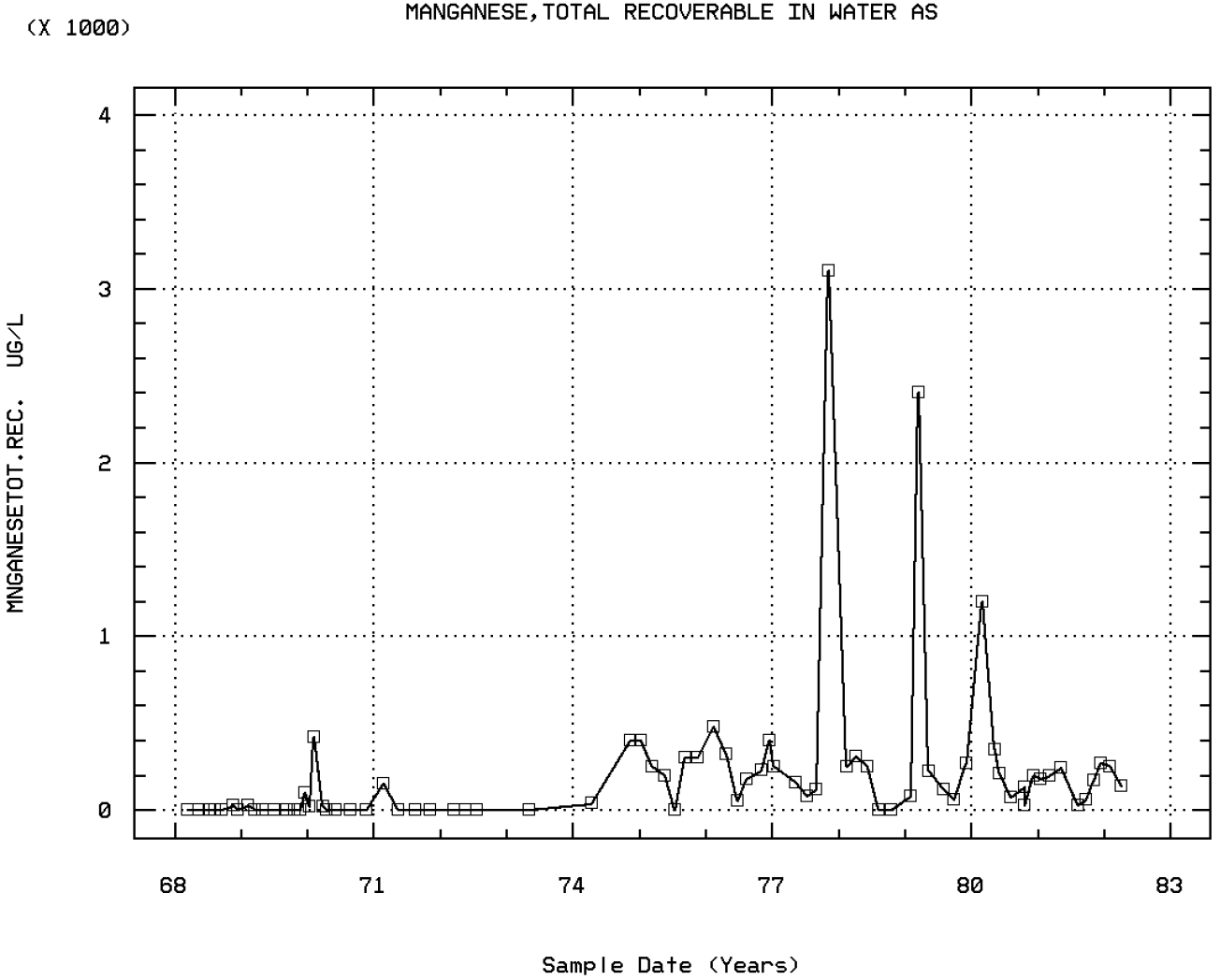
COPPER,TOTAL RECOVERABLE IN WATER AS CU



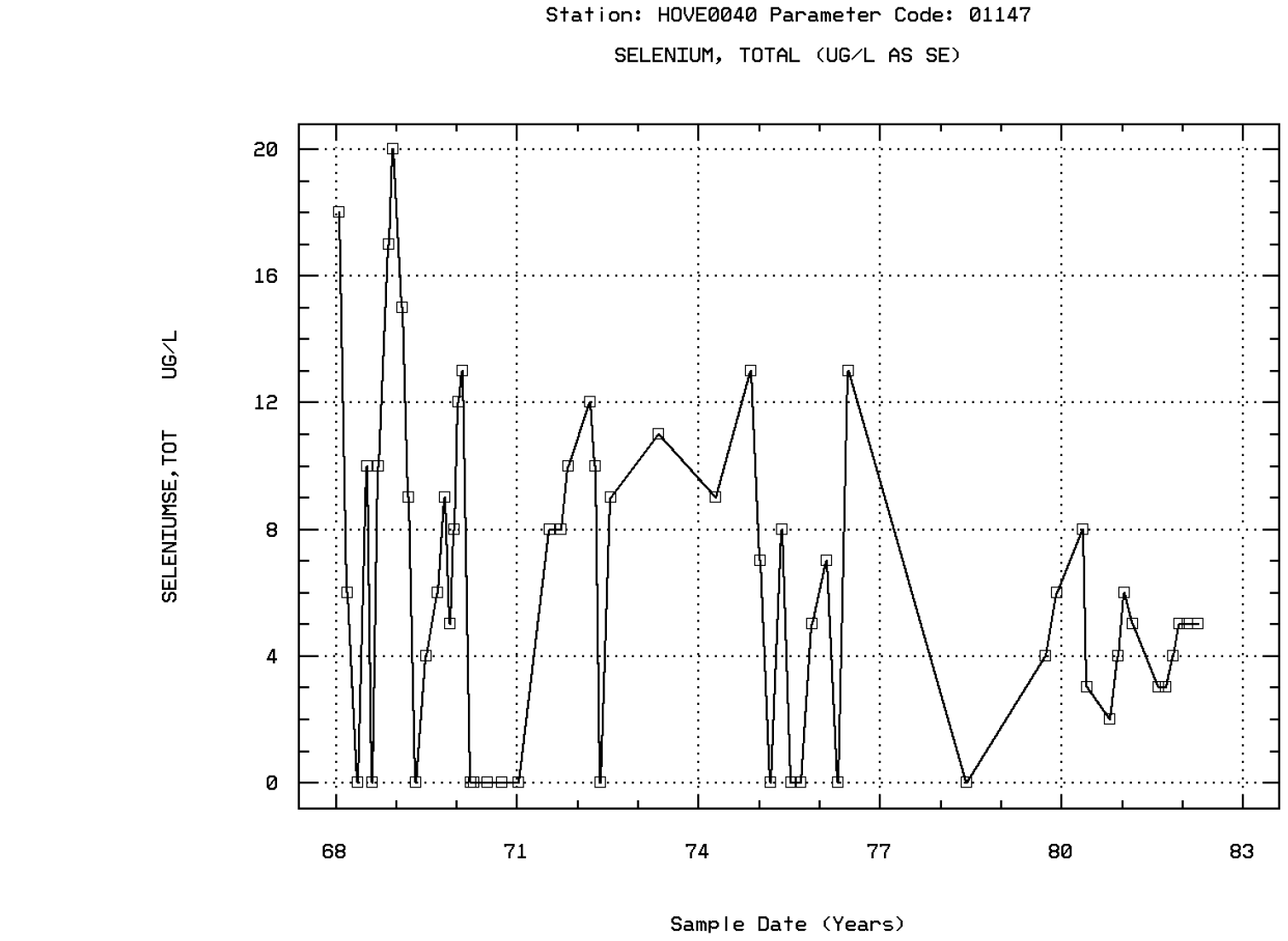
MCELMO CREEK WEST OF CORTEZ

Station: HOVE0040 Parameter Code: 01123

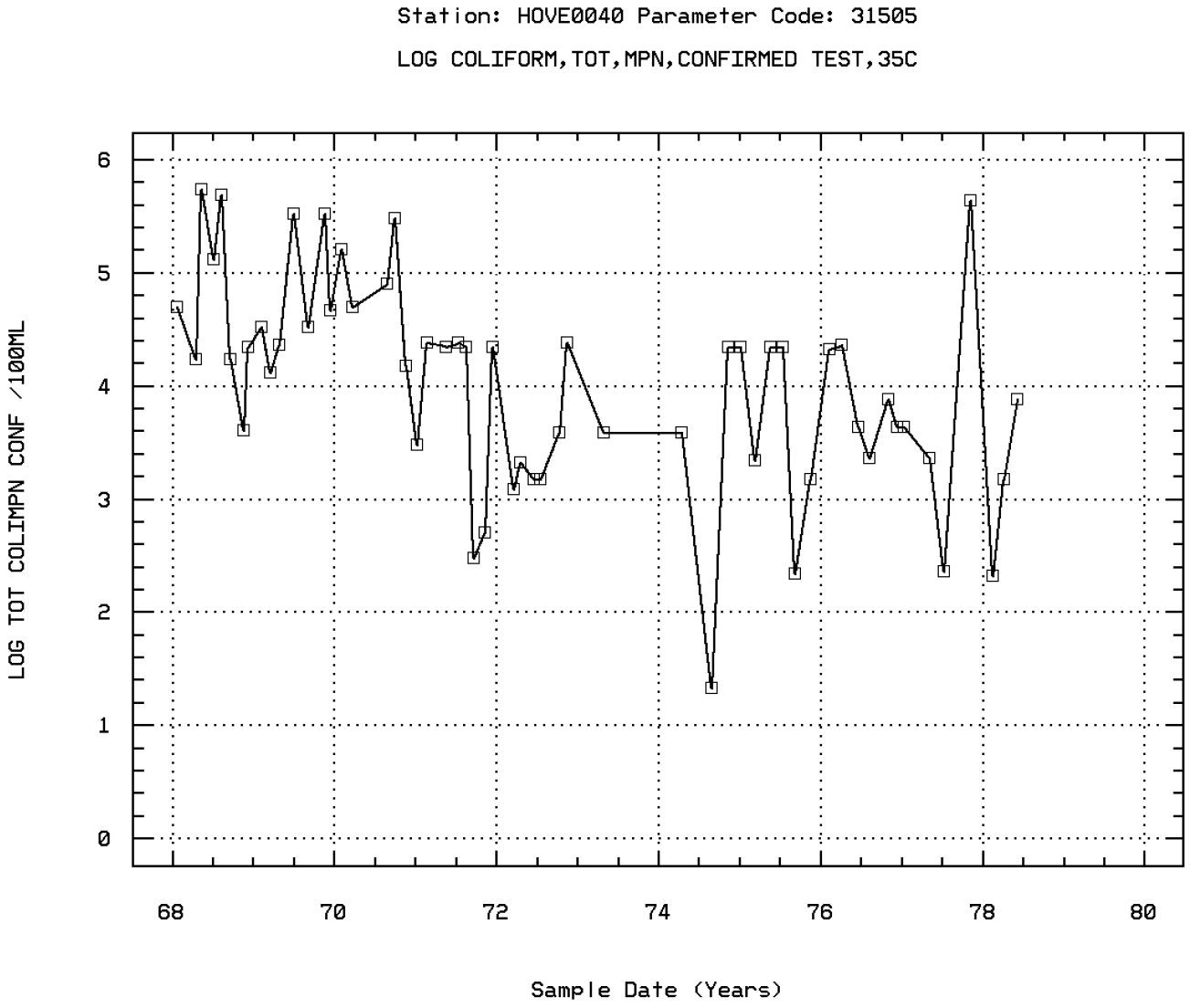
MANGANESE,TOTAL RECOVERABLE IN WATER AS



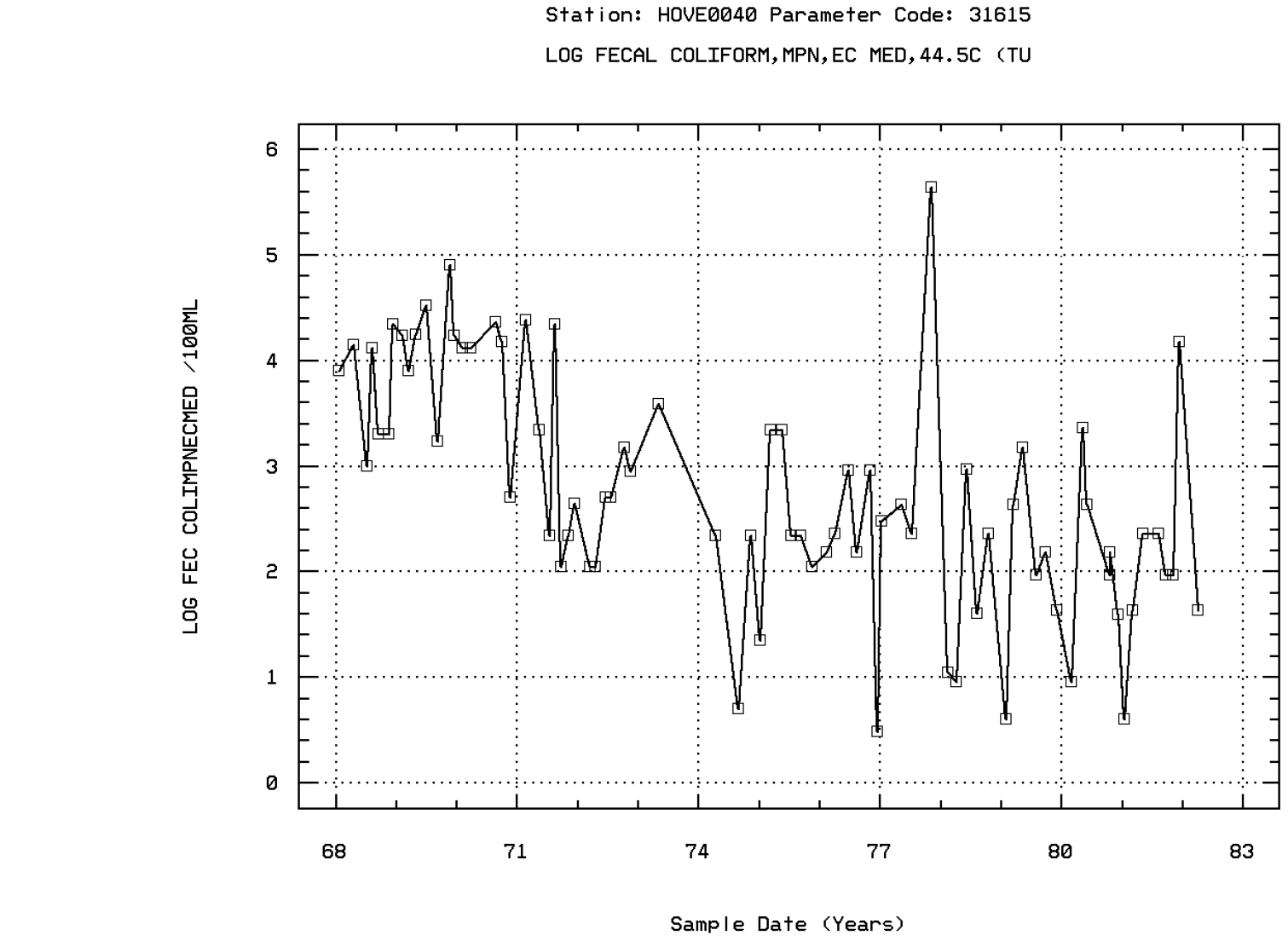
MCELMO CREEK WEST OF CORTEZ



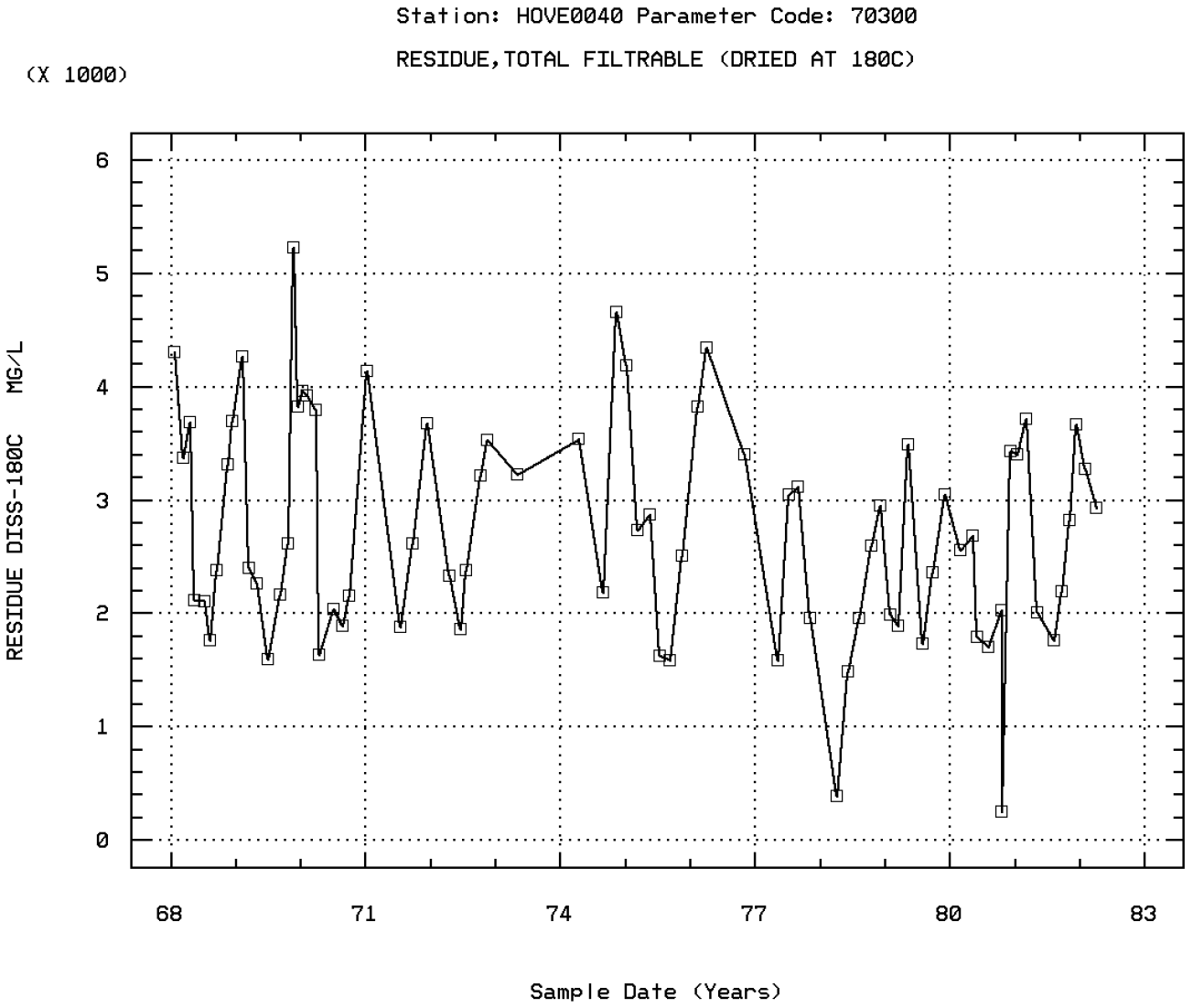
MCELMO CREEK WEST OF CORTEZ



MCELMO CREEK WEST OF CORTEZ



MCELMO CREEK WEST OF CORTEZ



MCELMO CREEK WEST OF CORTEZ

Seasonal Analysis for Season #1: 7/01 to 10/15 - Station HOVE0040

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011p	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/23/68-04/01/82	24	71.	69.775	81.	50.	75.632	8.697	54.	65.	76.55	79.8
00057	FLOW, INDICATES IT HAS BEEN CHECKED	10/12/72-06/10/82	13	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060	FLOW, STREAM, MEAN DAILY CFS	10/12/72-06/10/82	13	20.	24.162	112.	0.1	979.906	31.303	1.26	4.5	23.5	93.2
00076p	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	03/13/68-06/04/80	20	112.5	322.53	2500.	4.	303155.403	550.595	5.04	20.8	357.5	638.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/23/68-04/01/82	22	2307.5	2458.182	4340.	1560.	410689.013	640.85	1850.	2103.75	2592.75	3613.
00300	OXYGEN, DISSOLVED MG/L	05/02/73-04/01/82	12	8.	8.267	13.3	6.	3.142	1.773	6.3	7.425	8.3	12.07
00310	BOD, 5 DAY, 20 DEG C MG/L	07/09/68-06/04/80	14	2.2	2.479	4.5	1.	1.294	1.138	1.05	1.425	3.25	4.25
00400p	PH (STANDARD UNITS)	01/23/68-04/01/82	23	8.2	8.243	8.9	7.8	0.086	0.294	7.8	8.1	8.4	8.7
00400p	CONVERTED PH (STANDARD UNITS)	01/23/68-04/01/82	23	8.2	8.156	8.9	7.8	0.094	0.307	7.8	8.1	8.4	8.7
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/23/68-04/01/82	23	0.006	0.007	0.016	0.001	0.	0.004	0.002	0.004	0.008	0.016
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/09/68-04/01/82	19	160.	753.526	9319.	5.	4440898.374	2107.344	7.	20.	420.	1472.
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/18/68-04/01/82	17	0.05	0.129	0.9	0.	0.056	0.237	0.	0.	0.12	0.572
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	11/19/68-05/10/79	10	0.023	0.035	0.09	0.	0.001	0.032	0.001	0.014	0.069	0.089
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/18/68-08/02/79	15	2.	2.114	9.	0.02	4.227	2.056	0.362	1.	2.3	5.28
00723p	CYANIDE, DISSOLVED STD METHOD (UG/L)	03/13/68-04/01/82	16	0.	0.002	0.009	0.	0.	0.003	0.	0.	0.003	0.006
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	03/13/68-12/09/80	18	1192.5	1196.611	2180.	120.	231179.663	480.811	441.3	972.	1487.25	1748.
00910p	CALCIUM (MG/L AS CACO3)	03/13/68-12/09/80	18	681.5	658.	1300.	86.	89447.176	299.077	99.5	534.	856.25	1021.
00927p	MAGNESIUM, TOTAL (MG/L AS MG)	03/13/68-12/09/80	18	132.	129.667	290.	8.	5710.471	75.568	10.7	85.5	192.75	222.5
00929p	SODIUM, TOTAL (MG/L AS NA)	03/13/68-06/04/80	18	167.	176.389	400.	95.	6798.84	82.455	99.5	111.5	188.5	328.
00931p	SODIUM ADSORPTION RATIO	03/13/68-06/04/80	18	2.05	2.383	6.3	1.3	1.544	1.243	1.3	1.475	3.025	3.96
00940p	CHLORIDE,TOTAL IN WATER MG/L	03/13/68-06/04/80	18	38.5	39.722	72.	26.	137.036	11.706	27.8	30.	41.75	60.3
00945p	SULFATE, TOTAL (MG/L AS SO4)	09/18/68-04/01/82	18	1232.5	1317.556	2430.	873.	177428.732	421.223	898.2	1000.	1420.75	2061.
00951	FLUORIDE, TOTAL (MG/L AS F)	03/13/68-07/12/77	12	0.625	0.554	1.	0.2	0.063	0.251	0.23	0.3	0.7	0.955
00980p	IRON,TOTAL RECOVERABLE IN WATER AS FE UG/L	03/13/68-04/01/82	20	200.	1103.	9500.	0.	5555348.421	2356.979	5.	62.5	670.	5220.
01002p	ARSENIC, TOTAL (UG/L AS AS)	03/13/68-02/01/82	18	0.	2.5	20.	0.	23.529	4.851	0.	0.	5.	6.5
01022p	BORON, TOTAL (UG/L AS B)	01/23/68-11/05/81	15	200.	234.	760.	0.	39125.714	197.802	24.	70.	300.	580.
01094p	ZINC,TOTAL RECOVERABLE IN WATER AS ZN UG/L	03/13/68-04/01/82	19	5.	73.684	700.	0.	29266.228	171.074	0.	0.	50.	300.
01113p	CADMIUM,TOTAL RECOVERABLE IN WATER AS CD UG/L	03/13/68-04/01/82	19	0.	0.158	0.9	0.	0.085	0.291	0.	0.	0.15	0.8
01114p	LEAD,TOTAL RECOVERABLE IN WATER AS PB UG/L	03/13/68-04/01/82	18	0.	5.167	50.	0.	135.529	11.642	0.	0.	5.5	13.1
01119p	COPPER,TOTAL RECOVERABLE IN WATER AS CU UG/L	03/13/68-04/01/82	18	0.	4.556	20.	0.	48.114	6.936	0.	0.	10.25	18.2
01123p	MANGANESE,TOTAL RECOVERABLE IN WATER AS MN UG/L	03/13/68-04/01/82	19	0.	53.421	300.	0.	6450.146	80.313	0.	0.	80.	180.
01147p	SELENIUM, TOTAL (UG/L AS SE)	01/23/68-04/01/82	16	3.5	4.125	10.	0.	14.917	3.862	0.	0.	8.	10.
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	01/23/68-06/07/78	17	22000.	85610.059	490000.	21.21280673426.309		145878.968	180.2	900.	104500.	362000.
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	01/23/68-06/07/78	17	4.342	3.949	5.69	1.322	1.639	1.28	2.138	2.827	5.006	5.553
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			8891.427								
31615p	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	01/23/68-04/01/82	22	230.	5202.773	33000.	5.	91009640.66	9539.897	55.9	140.	4750.	22700.
31615p	LOG FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	01/23/68-04/01/82	22	2.362	2.786	4.519	0.699	1.029	1.015	1.712	2.142	3.504	4.356
31615p	GM FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	GEOMETRIC MEAN =			611.552								
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	09/06/69-07/12/77	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	01/23/68-04/01/82	23	2098.	2146.174	3213.	1583.	227338.423	476.8	1603.8	1760.	2376.	3082.

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

Seasonal Analysis for Season #2: 10/16 to 12/31 - Station HOVE0040

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011p	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/23/68-04/01/82	21	37.4	38.99	53.6	32.	38.586	6.212	32.	33.8	44.3	47.8
00057	FLOW, INDICATES IT HAS BEEN CHECKED	10/12/72-06/10/82	14	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060	FLOW, STREAM, MEAN DAILY CFS	10/12/72-06/10/82	14	30.	30.286	55.	9.	179.297	13.39	10.	19.5	37.	53.5
00076p	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	03/13/68-06/04/80	14	67.	923.75	12000.	7.5	10164397.721	3188.165	19.75	48.25	117.	6063.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/23/68-04/01/82	18	3265.	3282.111	4963.	2175.	612824.105	782.831	2242.5	2718.75	3710.	4573.3
00300	OXYGEN, DISSOLVED MG/L	05/02/73-04/01/82	13	10.7	11.3	13.8	9.5	2.033	1.426	9.58	10.1	12.25	13.72
00310	BOD, 5 DAY, 20 DEG C MG/L	07/09/68-06/04/80	9	2.1	2.689	4.8	1.3	1.259	1.122	1.3	2.	3.5	4.8
00400p	PH (STANDARD UNITS)	01/23/68-04/01/82	19	8.1	8.2	9.2	7.7	0.109	0.33	7.8	8.	8.3	8.5
00400p	CONVERTED PH (STANDARD UNITS)	01/23/68-04/01/82	19	8.1	8.107	9.2	7.7	0.118	0.344	7.8	8.	8.3	8.5
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/23/68-04/01/82	19	0.008	0.008	0.02	0.001	0.	0.005	0.003	0.005	0.01	0.016
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/09/68-04/01/82	15	110.	313.8	2700.	5.	453028.029	673.074	18.2	58.	315.	1366.8

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

Seasonal Analysis for Season #2: 10/16 to 12/31 - Station HOVE0040

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/18/68-04/01/82	20	0.035	0.26	2.2	0.	0.286	0.535	0.	0.	0.23	0.962
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	11/19/68-05/10/79	14	0.047	0.07	0.265	0.	0.005	0.073	0.011	0.027	0.083	0.213
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/18/68-08/02/79	14	4.25	5.557	17.1	0.9	20.338	4.51	0.95	2.425	7.975	14.3
00723p	CYANIDE, DISSOLVED STD METHOD (UG/L)	03/13/68-04/01/82	17	0.	0.002	0.01	0.	0.	0.003	0.	0.	0.005	0.006
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	03/13/68-12/09/80	16	1757.5	1743.438	2552.	451.	240413.063	490.319	1102.7	1503.25	2074.	2484.1
00910p	CALCIUM (MG/L AS CACO3)	03/13/68-12/09/80	16	913.	847.563	1089.	206.	46228.529	215.008	499.3	765.	990.	1026.7
00927p	MAGNESIUM, TOTAL (MG/L AS MG)	03/13/68-12/09/80	16	200.	217.938	356.	60.	5561.796	74.577	123.	179.5	267.75	356.
00929p	SODIUM, TOTAL (MG/L AS NA)	03/13/68-06/04/80	15	250.	305.4	590.	184.	12880.543	113.492	196.6	225.	380.	518.
00931p	SODIUM ADSORPTION RATIO	03/13/68-06/04/80	15	3.1	3.253	5.	2.	0.874	0.935	2.18	2.4	4.	4.7
00940p	CHLORIDE,TOTAL IN WATER MG/L	03/13/68-06/04/80	15	55.	64.6	125.	44.	517.829	22.756	44.6	50.	72.	106.4
00945p	SULFATE, TOTAL (MG/L AS SO4)	09/18/68-04/01/82	19	1800.	1809.632	2996.	68.	365682.69	604.717	1200.	1600.	2080.	2923.
00951	FLUORIDE, TOTAL (MG/L AS F)	03/13/68-07/12/77	5	0.5	0.56	0.9	0.3	0.048	0.219	**	**	**	**
00980p	IRON,TOTAL RECOVERABLE IN WATER AS FE UG/L	03/13/68-04/01/82	19	200.	8802.105	160000.	0.	1340783161.988	36616.706	50.	50.	870.	1500.
01002p	ARSENIC, TOTAL (UG/L AS AS)	03/13/68-02/01/82	12	2.5	4.417	27.	0.	57.356	7.573	0.	0.	5.	20.7
01022p	BORON, TOTAL (UG/L AS B)	01/23/68-11/05/81	12	210.	235.	560.	0.	17918.182	133.859	42.	170.	307.5	491.
01094p	ZINC,TOTAL RECOVERABLE IN WATER AS ZN UG/L	03/13/68-04/01/82	19	0.	58.947	530.	0.	18187.719	134.862	0.	0.	50.	300.
01113p	CADMIUM,TOTAL RECOVERABLE IN WATER AS CD UG/L	03/13/68-04/01/82	16	0.	0.119	0.7	0.	0.048	0.218	0.	0.	0.15	0.63
01114p	LEAD,TOTAL RECOVERABLE IN WATER AS PB UG/L	03/13/68-04/01/82	13	2.5	10.5	99.	0.	724.708	26.92	0.	0.	7.	65.
01119p	COPPER,TOTAL RECOVERABLE IN WATER AS CU UG/L	03/13/68-04/01/82	12	2.5	4.542	22.	0.	42.566	6.524	0.	0.	7.75	18.4
01123p	MANGANESE,TOTAL RECOVERABLE IN WATER AS MN UG/L	03/13/68-04/01/82	19	130.	295.789	3100.	0.	480745.175	693.358	0.	0.	270.	400.
01147p	SELENIUM, TOTAL (UG/L AS SE)	01/23/68-04/01/82	14	5.5	7.786	20.	1.	30.951	5.563	1.5	4.	10.75	18.5
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	01/23/68-06/07/78	13	22000.	71446.154	430000.	500.193	25254358.974	139015.303	900.	4150.	35000.	390000.
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	01/23/68-06/07/78	13	4.342	4.183	5.633	2.699	0.682	0.826	2.89	3.618	4.521	5.587
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			15253.927								
31615p	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	01/23/68-04/01/82	20	335.	28456.05	430000.	3.	92609019	65.524	96233.58	39.4	97.25	11750.	73300.
31615p	LOG FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	01/23/68-04/01/82	20	2.503	2.836	5.633	0.477	1.592	1.262	1.595	1.987	3.957	4.842
31615p	GM FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	GEOMETRIC MEAN =			686.277								
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	09/06/69-07/12/77	7	0.	0.079	0.55	0.	0.043	0.208	**	**	**	**
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	01/23/68-04/01/82	19	3305.	3111.632	5221.	250.	1134912.357	1065.323	1950.	2590.	3670.	4658.

** - Less than 9 observations ## - Computed 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: 1/01 to 3/15 - Station HOVE0040

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011p	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/23/68-04/01/82	17	36.	36.6	48.	32.	21.575	4.645	32.	32.	39.5	43.84
00057	FLOW, INDICATES IT HAS BEEN CHECKED	10/12/72-06/10/82	11	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060	FLOW, STREAM, MEAN DAILY CFS	10/12/72-06/10/82	11	23.	68.273	310.	14.	7712.018	87.818	14.8	22.	99.	269.4
00076p	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	03/13/68-06/04/80	13	87.	515.231	2800.	29.	656477.026	810.233	33.	51.	670.	2280.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/23/68-04/01/82	15	3470.	3521.	4920.	2230.	560656.714	748.77	2332.	3108.	4090.	4557.
00300	OXYGEN, DISSOLVED MG/L	05/02/73-04/01/82	10	11.3	11.49	13.4	9.8	1.228	1.108	9.86	10.55	12.45	13.32
00310	BOD, 5 DAY, 20 DEG C MG/L	07/09/68-06/04/80	8	2.2	2.663	5.	1.	1.666	1.291	**	**	**	**
00400p	PH (STANDARD UNITS)	01/23/68-04/01/82	15	8.3	8.173	8.5	7.6	0.081	0.284	7.72	7.9	8.4	8.5
00400p	CONVERTED PH (STANDARD UNITS)	01/23/68-04/01/82	15	8.3	8.078	8.5	7.6	0.09	0.301	7.72	7.9	8.4	8.5
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/23/68-04/01/82	15	0.005	0.008	0.025	0.003	0.	0.006	0.003	0.004	0.013	0.02
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/09/68-04/01/82	13	130.	861.769	3630.	15.	1506971.026	1227.587	15.	43.	1904.5	3215.6
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/18/68-04/01/82	14	0.175	0.457	2.5	0.	0.478	0.691	0.	0.038	0.68	1.85
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	11/19/68-05/10/79	10	0.071	0.077	0.238	0.011	0.005	0.067	0.012	0.023	0.101	0.226
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/18/68-08/02/79	11	4.6	5.282	16.	0.48	16.608	4.075	0.608	3.3	6.4	14.24
00723p	CYANIDE, DISSOLVED STD METHOD (UG/L)	03/13/68-04/01/82	11 ##	0.003	0.184	2.	0.	0.363	0.602	0.	0.	0.005	1.601
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	03/13/68-12/09/80	13	2077.	1884.538	2324.	1100.	188295.436	433.93	1100.	1503.5	2191.5	2296.4
00910p	CALCIUM (MG/L AS CACO3)	03/13/68-12/09/80	13	995.	958.538	1392.	610.	62351.603	249.703	622.	718.5	1115.	1371.2
00927p	MAGNESIUM, TOTAL (MG/L AS MG)	03/13/68-12/09/80	13	232.	225.462	315.	110.	3630.436	60.253	118.	188.	260.5	308.2
00929p	SODIUM, TOTAL (MG/L AS NA)	03/13/68-06/04/80	13	280.	287.615	530.	99.	13550.59	116.407	119.4	210.	380.	478.
00931p	SODIUM ADSORPTION RATIO	03/13/68-06/04/80	13	2.6	3.708	15.	1.3	12.426	3.525	1.54	2.15	3.45	11.08
00940p	CHLORIDE,TOTAL IN WATER MG/L	03/13/68-06/04/80	13	62.	71.538	170.	23.	1414.436	37.609	31.4	51.5	83.	150.
00945p	SULFATE, TOTAL (MG/L AS SO4)	09/18/68-04/01/82	15	2115.	1881.8	2738.	120.	465225.6	682.074	756.	1280.	2305.	2627.

** - Less than 9 observations ## - Computed 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: 1/01 to 3/15 - Station HOVE0040

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00951	FLUORIDE, TOTAL (MG/L AS F)	03/13/68-07/12/77	6	0.5	0.542	0.9	0.35	0.042	0.206	**	**	**	**
00980p	IRON,TOTAL RECOVERABLE IN WATER AS FE UG/L	03/13/68-04/01/82	16	275.	6668.75	44000.	0.	209193318.333	14463.517	21.	85.	6700.	42600.
01002p	ARSENIC, TOTAL (UG/L AS AS)	03/13/68-02/01/82	13	0.	1.923	5.	0.	5.369	2.317	0.	0.	5.	5.
01022p	BORON, TOTAL (UG/L AS B)	01/23/68-11/05/81	10	155.	154.	290.	0.	6671.111	81.677	10.	100.	207.5	284.
01094p	ZINC,TOTAL RECOVERABLE IN WATER AS ZN UG/L	03/13/68-04/01/82	16	10.	90.625	800.	0.	41242.917	203.084	0.	0.	85.	422.
01113p	CADMIUM,TOTAL RECOVERABLE IN WATER AS CD UG/L	03/13/68-04/01/82	16	0.	0.331	2.	0.	0.353	0.594	0.	0.	0.788	1.3
01114p	LEAD,TOTAL RECOVERABLE IN WATER AS PB UG/L	03/13/68-04/01/82	13	2.5	14.423	71.	0.	486.202	22.05	0.	0.	29.5	58.6
01119p	COPPER,TOTAL RECOVERABLE IN WATER AS CU UG/L	03/13/68-04/01/82	13	3.	18.923	90.	0.	850.369	29.161	0.	0.	26.	82.
01123p	MANGANESE,TOTAL RECOVERABLE IN WATER AS MN UG/L	03/13/68-04/01/82	16	250.	409.688	2400.	0.	362241.563	601.865	14.	97.5	415.	1560.
01147p	SELENIUM, TOTAL (UG/L AS SE)	01/23/68-04/01/82	12	6.5	7.833	18.	0.	31.424	5.606	0.	5.	12.75	17.1
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	01/23/68-06/07/78	10	21500.	31871.	160000.	210.	2273974187.778	47686.205	409.	2800.	37000.	148900.
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	01/23/68-06/07/78	10	4.332	4.023	5.204	2.322	0.69	0.831	2.424	3.443	4.561	5.153
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			10550.948								
31615p	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	01/23/68-04/01/82	14	225.	4662.357	24000.	4.	61851071.478	7864.545	4.	10.5	9175.	20600.
31615p	LOG FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	01/23/68-04/01/82	14	2.327	2.388	4.38	0.602	1.967	1.403	0.602	1.02	3.952	4.308
31615p	GM FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	GEOMETRIC MEAN =			244.345								
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	09/06/69-07/12/77	5	0.	0.002	0.01	0.	0.	0.004	**	**	**	**
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	01/23/68-04/01/82	15	3710.	3432.4	4304.	1890.	645781.4	803.605	1944.	2732.	4135.	4281.2

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

Seasonal Analysis for Season #4: 3/16 to 6/30 - Station HOVE0040

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011p	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/23/68-04/01/82	25	58.	55.624	71.6	36.	106.504	10.32	41.	48.	65.	68.72
00057	FLOW, INDICATES IT HAS BEEN CHECKED	10/12/72-06/10/82	16	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060	FLOW, STREAM, MEAN DAILY CFS	10/12/72-06/10/82	16	21.5	28.188	139.	1.	1058.029	32.527	2.4	6.25	38.25	71.1
00076p	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	03/13/68-06/04/80	18	160.	254.672	800.	9.2	60280.548	245.521	16.13	50.25	390.	728.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/23/68-04/01/82	24	2695.5	2694.792	4820.	290.	1237141.389	1112.269	1180.	1924.	3509.25	4295.
00300	OXYGEN, DISSOLVED MG/L	05/02/73-04/01/82	13	9.	8.969	12.7	6.2	2.757	1.661	6.6	7.75	9.85	11.94
00310	BOD, 5 DAY, 20 DEG C MG/L	07/09/68-06/04/80	13	3.	3.285	7.	2.	2.593	1.61	2.	2.	4.	6.6
00400p	PH (STANDARD UNITS)	01/23/68-04/01/82	24	8.3	8.325	10.4	7.6	0.278	0.528	7.8	8.	8.5	8.65
00400p	CONVERTED PH (STANDARD UNITS)	01/23/68-04/01/82	24	8.3	8.15	10.4	7.6	0.311	0.557	7.8	8.	8.5	8.65
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/23/68-04/01/82	24	0.005	0.007	0.025	0.	0.	0.006	0.002	0.003	0.01	0.016
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/09/68-04/01/82	14	275.5	535.786	3084.	20.	636569.412	797.853	35.	86.25	639.75	2092.
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/18/68-04/01/82	21	0.05	0.206	2.5	0.	0.293	0.541	0.	0.	0.165	0.46
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	11/19/68-05/10/79	17	0.03	0.055	0.18	0.	0.003	0.053	0.	0.01	0.096	0.134
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/18/68-08/02/79	16	2.15	2.971	10.	0.1	5.755	2.399	0.59	1.8	3.75	7.27
00723p	CYANIDE, DISSOLVED STD METHOD (UG/L)	03/13/68-04/01/82	18	0.	0.001	0.005	0.	0.	0.002	0.	0.	0.003	0.005
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	03/13/68-12/09/80	20	1510.	1470.85	2040.	270.	229161.924	478.709	867.5	1122.75	1910.	2027.9
00910p	CALCIUM (MG/L AS CACO3)	03/13/68-12/09/80	20	721.5	742.8	1592.	190.	74599.747	273.13	422.2	623.	867.5	919.1
00927p	MAGNESIUM, TOTAL (MG/L AS MG)	03/13/68-12/09/80	20	160.	172.55	380.	20.	8324.892	91.241	48.	118.25	241.	289.
00929p	SODIUM, TOTAL (MG/L AS NA)	03/13/68-06/04/80	20	197.5	218.5	470.	50.	12131.632	110.144	100.	133.75	280.5	413.
00931p	SODIUM ADSORPTION RATIO	03/13/68-06/04/80	20	2.2	2.185	3.8	0.2	0.77	0.877	1.31	1.5	2.875	3.63
00940p	CHLORIDE,TOTAL IN WATER MG/L	03/13/68-06/04/80	20	52.	51.4	100.	15.	406.884	20.171	25.	34.25	62.5	82.1
00945p	SULFATE, TOTAL (MG/L AS SO4)	09/18/68-04/01/82	20	1598.5	1556.1	2530.	260.	374636.832	612.076	833.5	1043.75	2021.25	2464.
00951	FLUORIDE, TOTAL (MG/L AS F)	03/13/68-07/12/77	11	0.7	0.7	1.6	0.3	0.124	0.352	0.32	0.4	0.8	1.46
00980p	IRON,TOTAL RECOVERABLE IN WATER AS FE UG/L	03/13/68-04/01/82	22	335.	1516.818	9800.	0.	5765822.727	2401.213	15.	100.	2475.	4540.
01002p	ARSENIC, TOTAL (UG/L AS AS)	03/13/68-02/01/82	16	0.	1.5	14.	0.	13.167	3.629	0.	0.	1.875	7.7
01022p	BORON, TOTAL (UG/L AS B)	01/23/68-11/05/81	18	200.	218.333	400.	90.	4826.471	69.473	144.	180.	260.	328.
01094p	ZINC,TOTAL RECOVERABLE IN WATER AS ZN UG/L	03/13/68-04/01/82	21	10.	20.714	100.	0.	785.714	28.031	0.	0.	35.	74.
01113p	CADMIUM,TOTAL RECOVERABLE IN WATER AS CD UG/L	03/13/68-04/01/82	19	0.	0.132	0.9	0.	0.066	0.258	0.	0.	0.15	0.7
01114p	LEAD,TOTAL RECOVERABLE IN WATER AS PB UG/L	03/13/68-04/01/82	17	0.	10.559	67.	0.	325.746	18.048	0.	0.	15.5	45.4
01119p	COPPER,TOTAL RECOVERABLE IN WATER AS CU UG/L	03/13/68-04/01/82	17	0.	5.265	33.	0.	79.754	8.93	0.	0.	8.	20.2
01123p	MANGANESE,TOTAL RECOVERABLE IN WATER AS MN UG/L	03/13/68-04/01/82	22	45.	114.091	350.	0.	16044.372	126.666	0.	0.	225.	317.
01147p	SELENIUM, TOTAL (UG/L AS SE)	01/23/68-04/01/82	18	4.	4.944	13.	0.	24.644	4.964	0.	0.	9.25	12.1
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	01/23/68-06/07/78	17	7500.	43482.353	542000.	1200.	16664559044.118	129091.282	1440.	2200.	22500.	147600.

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

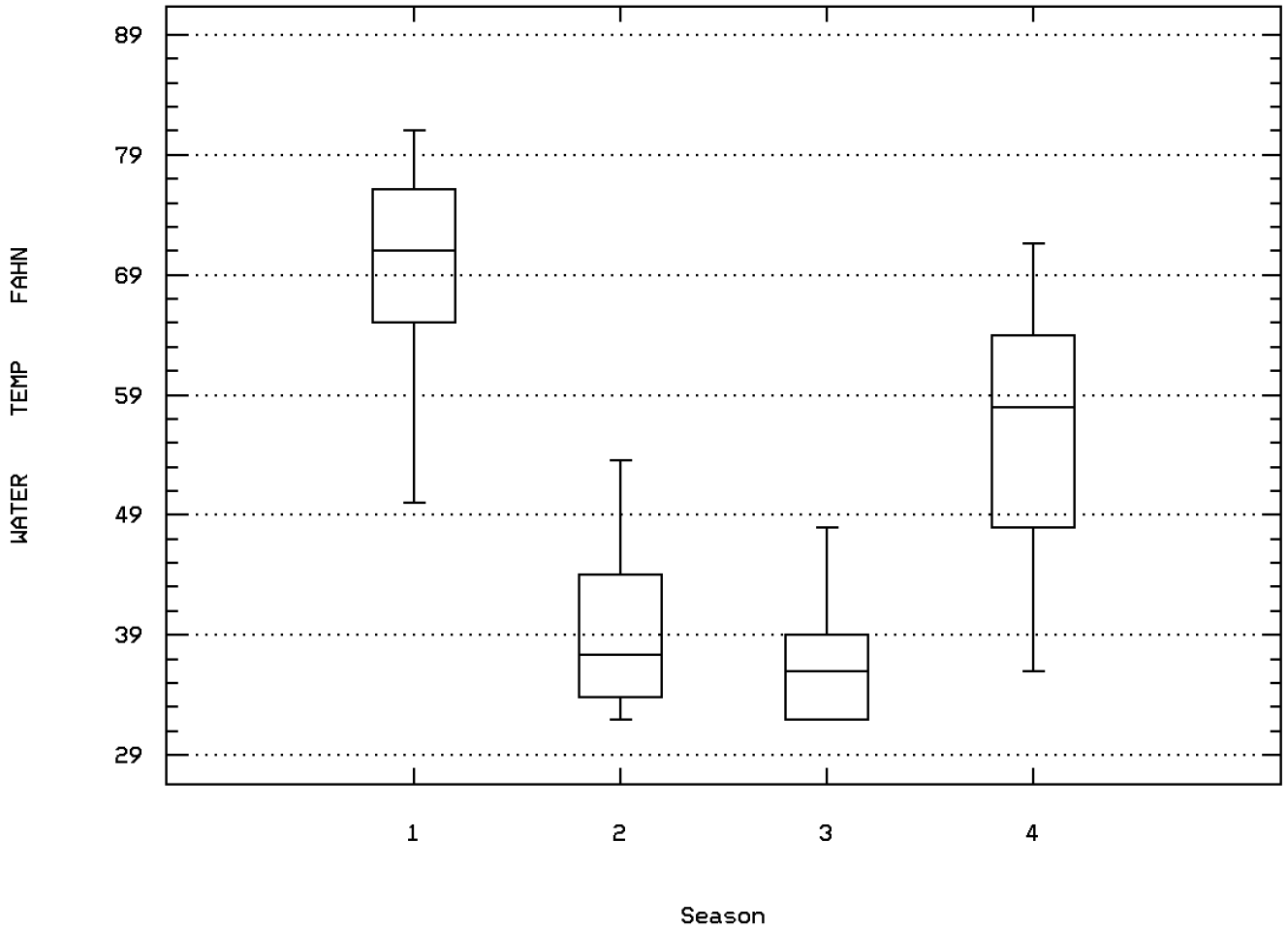
Seasonal Analysis for Season #4: 3/16 to 6/30 - Station HOVE0040

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	01/23/68-06/07/78	17	3.875	3.939	5.734	3.079	0.473	0.687	3.157	3.342	4.352	4.899
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			8692.401								
31615p	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	01/23/68-04/01/82	21	900.	3263.905	17500.	9.	27204023.49	5215.748	56.4	225.	3050.	13800.
31615p	LOG FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	01/23/68-04/01/82	21	2.954	2.897	4.243	0.954	0.746	0.864	1.715	2.352	3.471	4.14
31615p	GM FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	GEOMETRIC MEAN =			788.099								
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	09/06/69-07/12/77	10	0.	0.001	0.01	0.	0.	0.003	0.	0.	0.	0.009
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	01/23/68-04/01/82	20	2364.	2517.9	4340.	380.	942789.358	970.973	1490.	1807.5	3422.	3783.

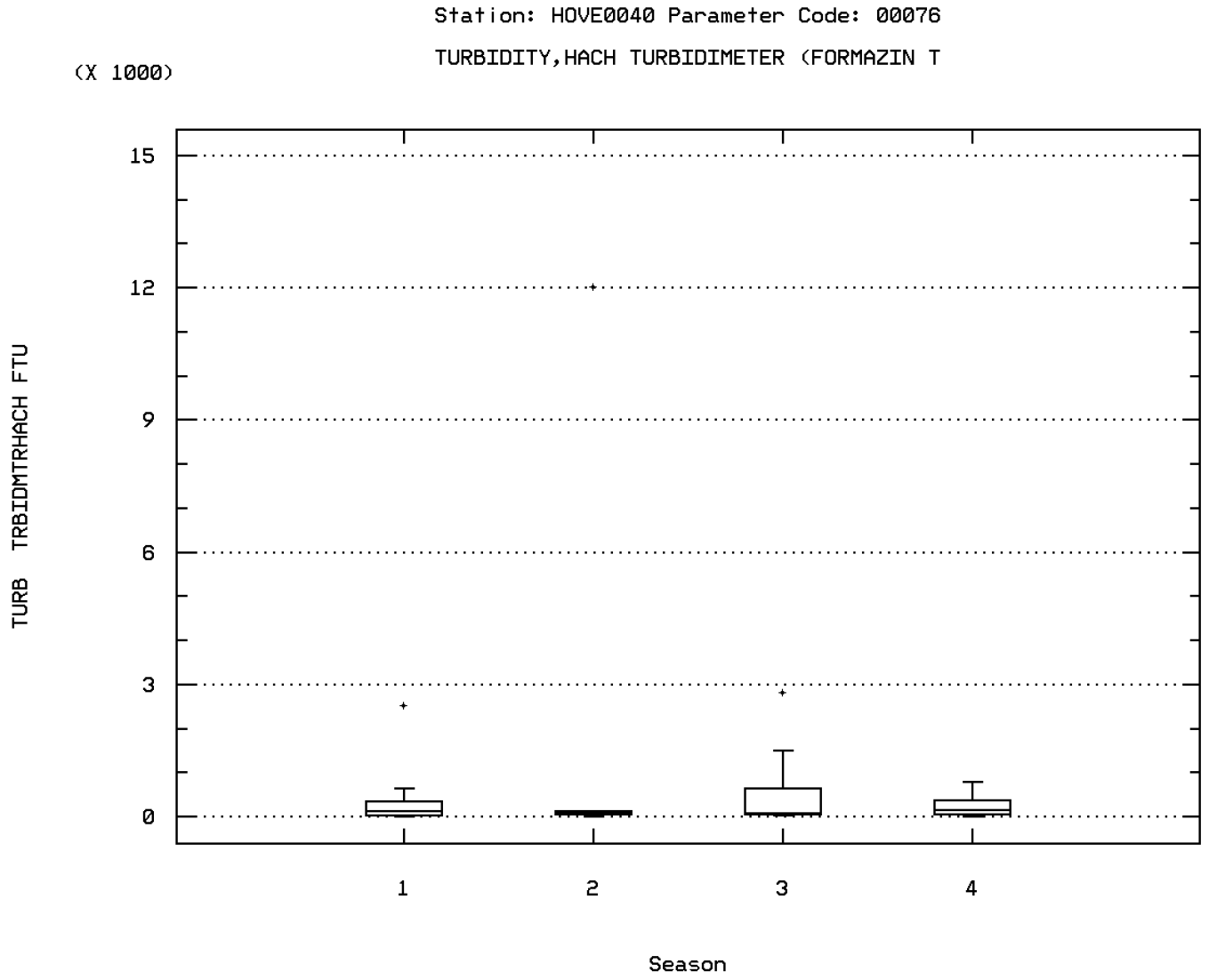
** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station: HOVE0040 Parameter Code: 00011

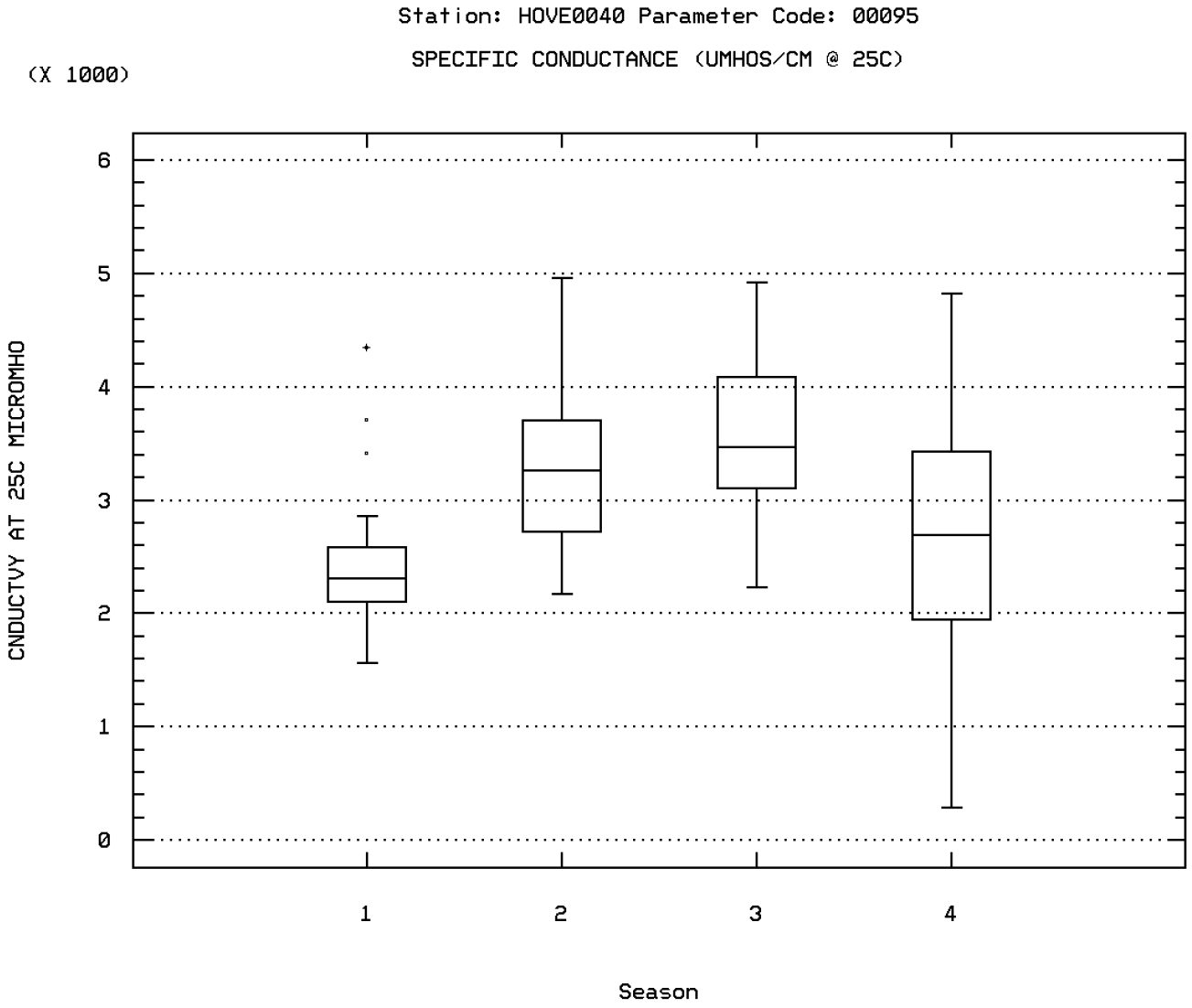
TEMPERATURE, WATER (DEGREES FAHRENHEIT)



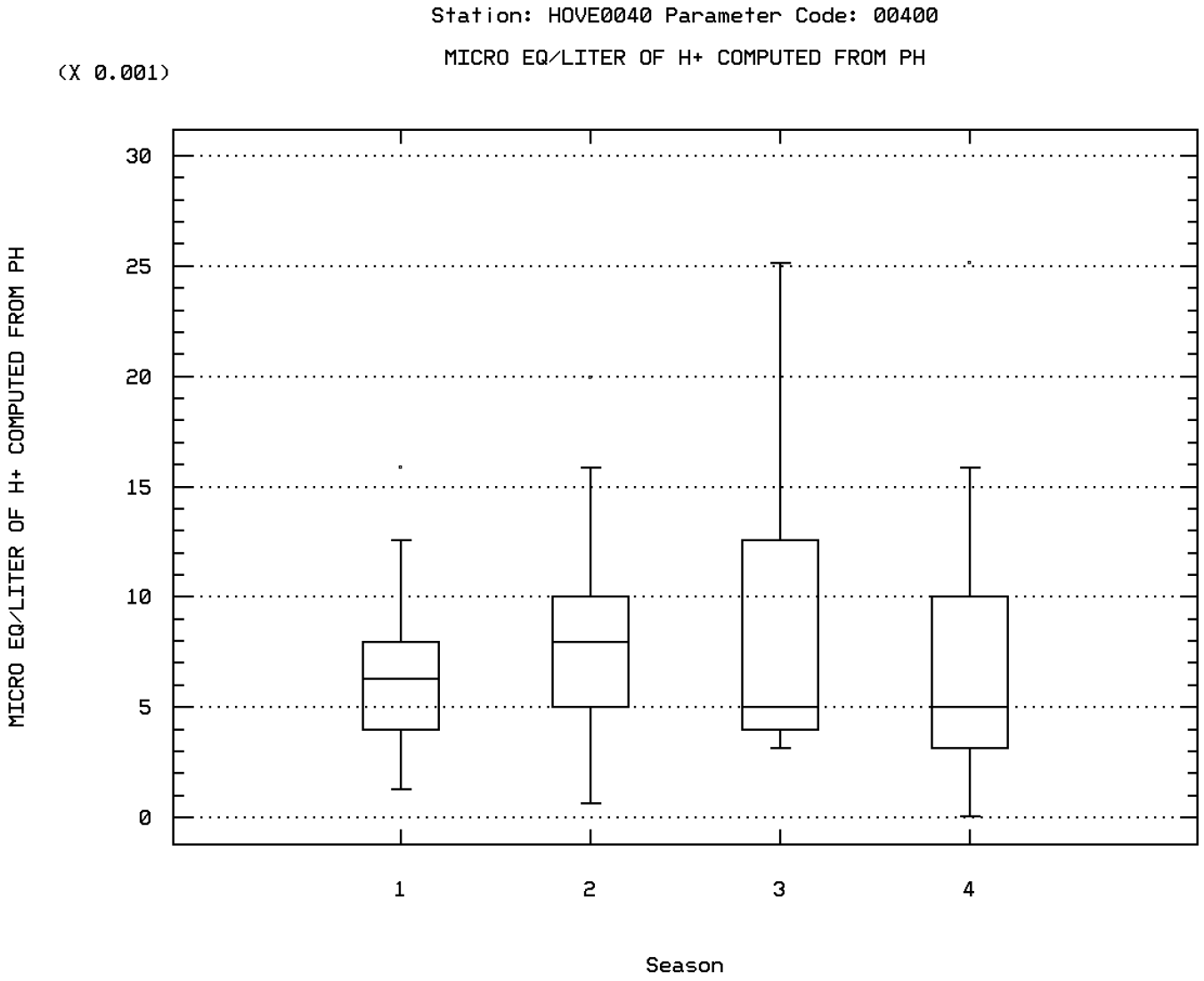
MCELMO CREEK WEST OF CORTEZ



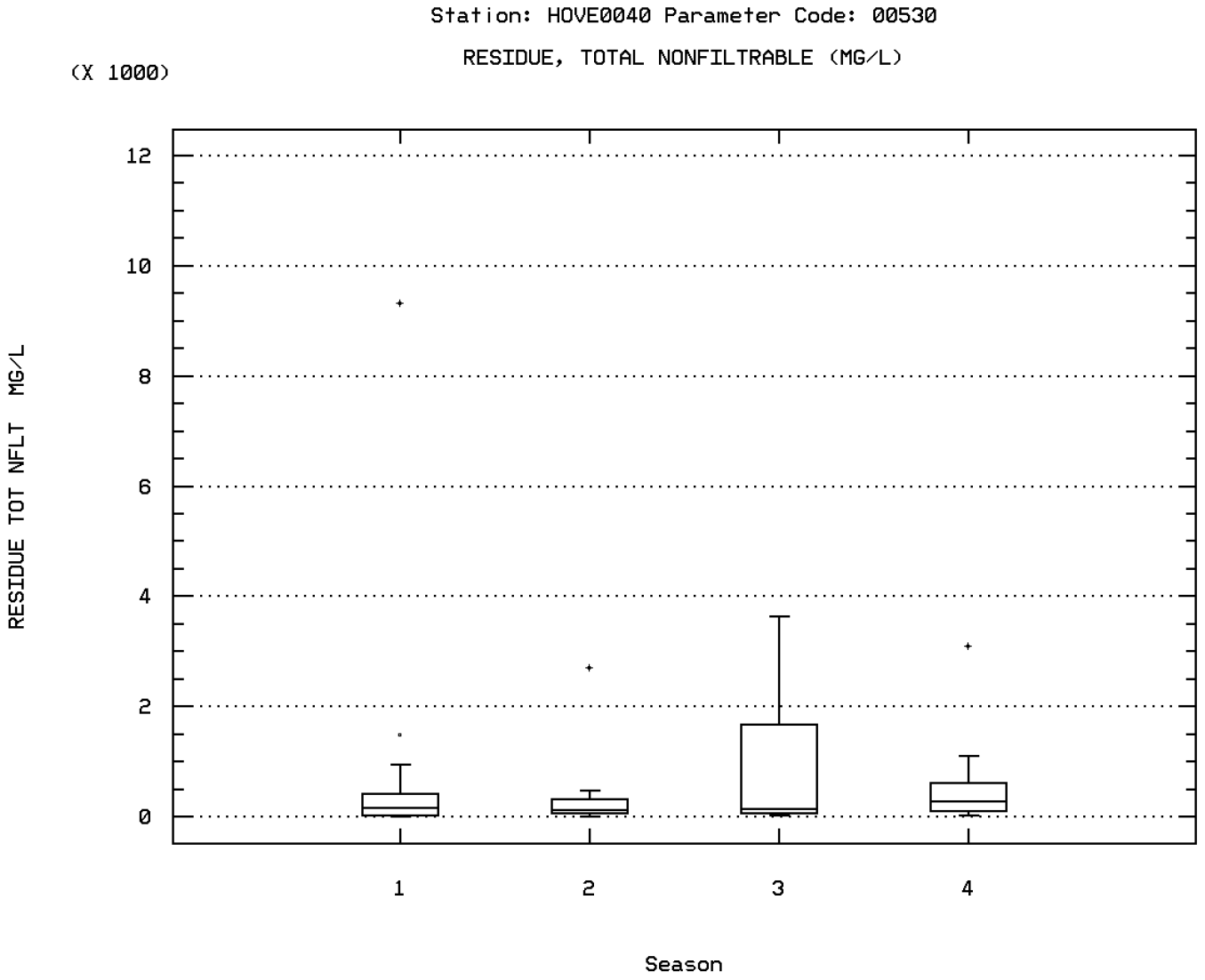
MCELMO CREEK WEST OF CORTEZ



MCELMO CREEK WEST OF CORTEZ



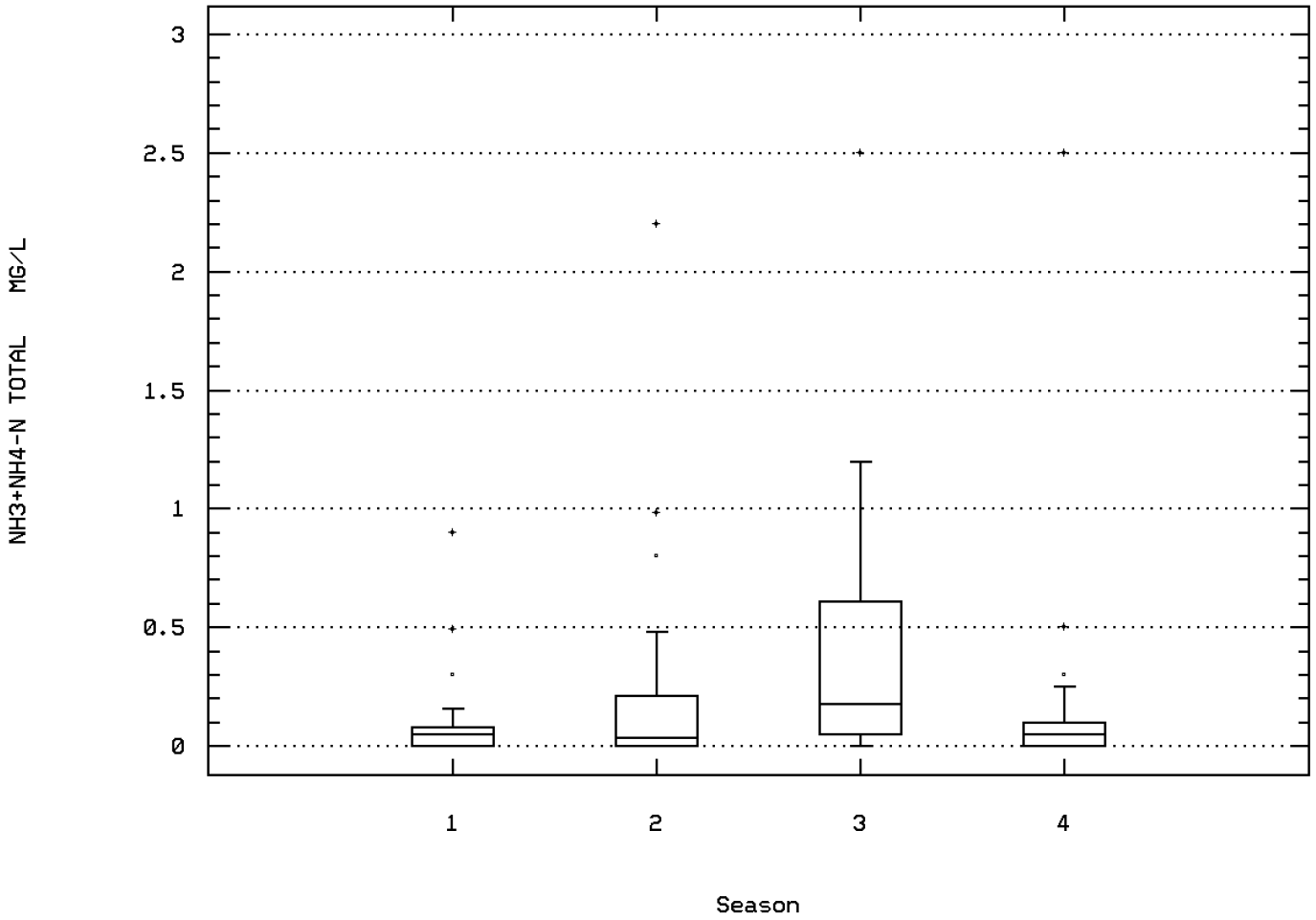
MCELMO CREEK WEST OF CORTEZ



MCELMO CREEK WEST OF CORTEZ

Station: HOVE0040 Parameter Code: 00610

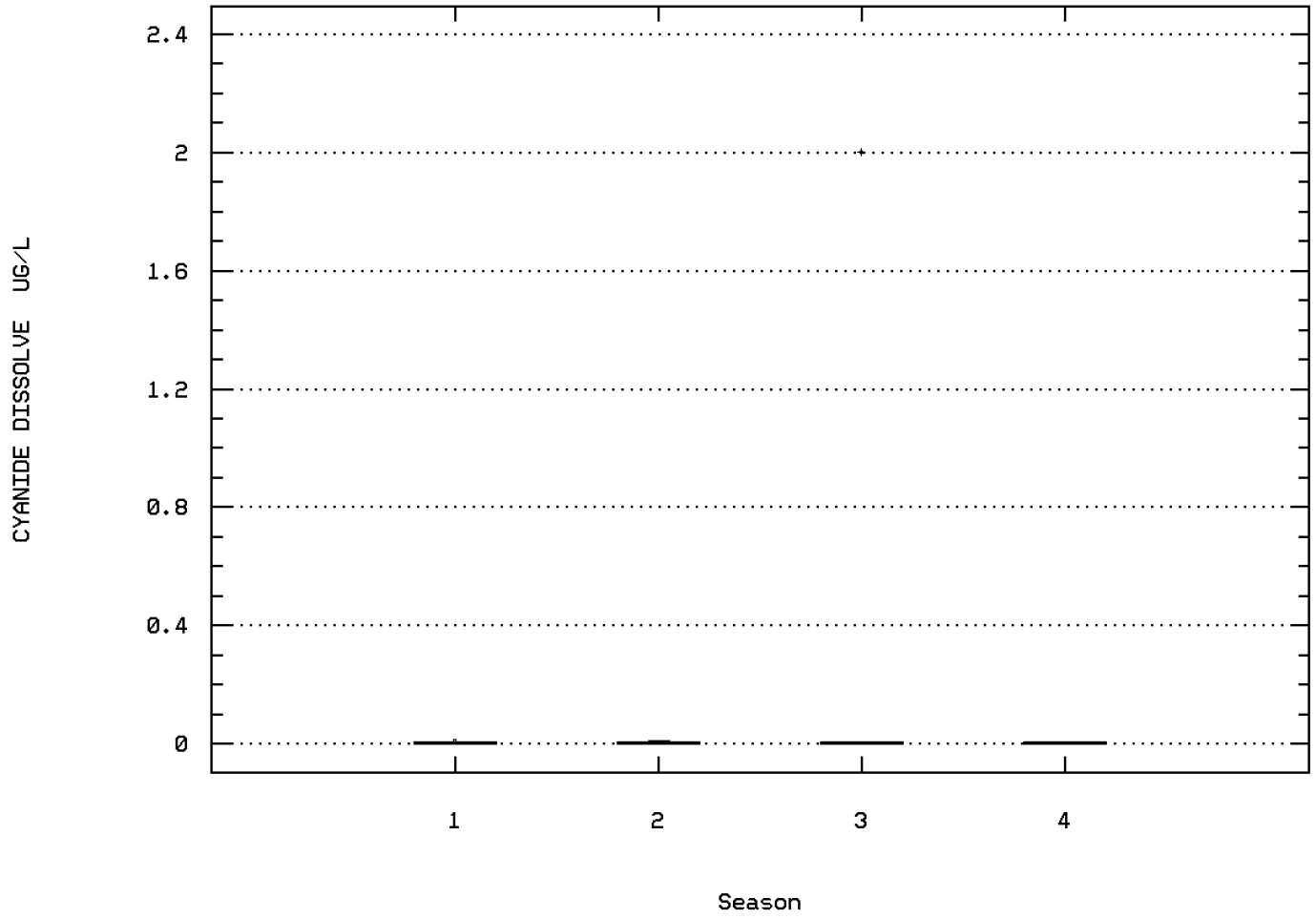
NITROGEN, AMMONIA, TOTAL (MG/L AS N)



MCELMO CREEK WEST OF CORTEZ

Station: HOVE0040 Parameter Code: 00723

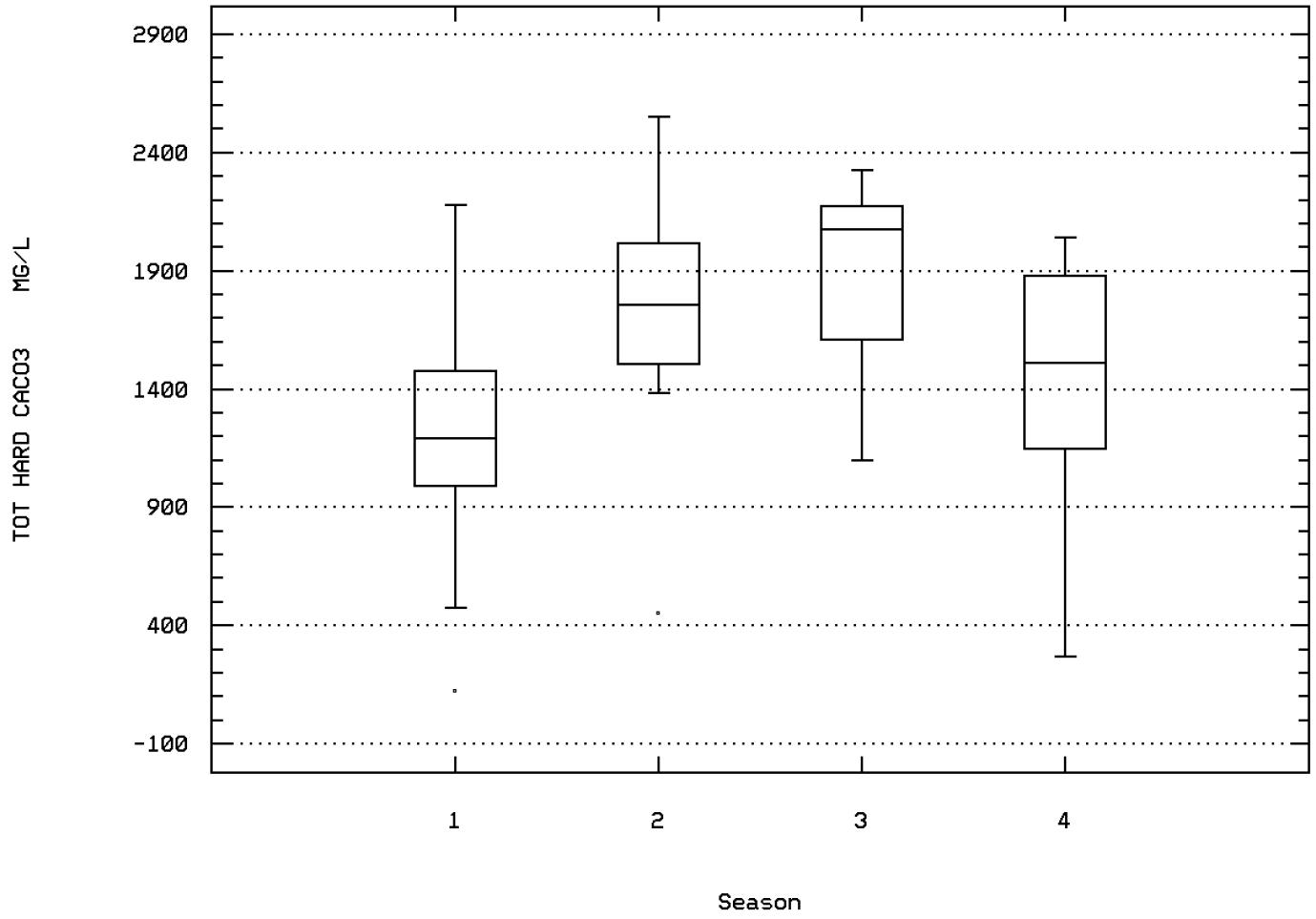
CYANIDE, DISSOLVED STD METHOD (UG/L



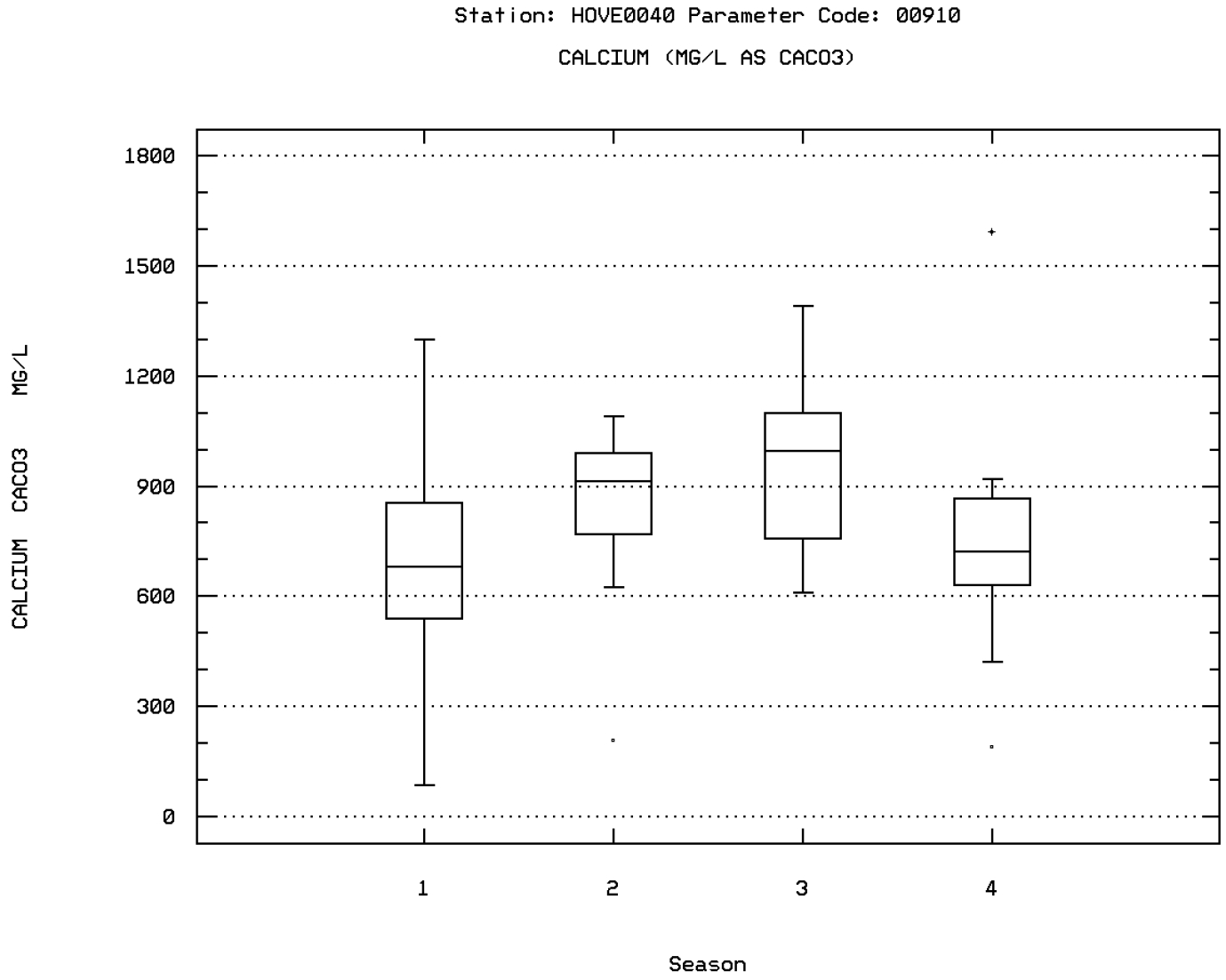
MCELMO CREEK WEST OF CORTEZ

Station: HOVE0040 Parameter Code: 00900

HARDNESS, TOTAL (MG/L AS CACO3)



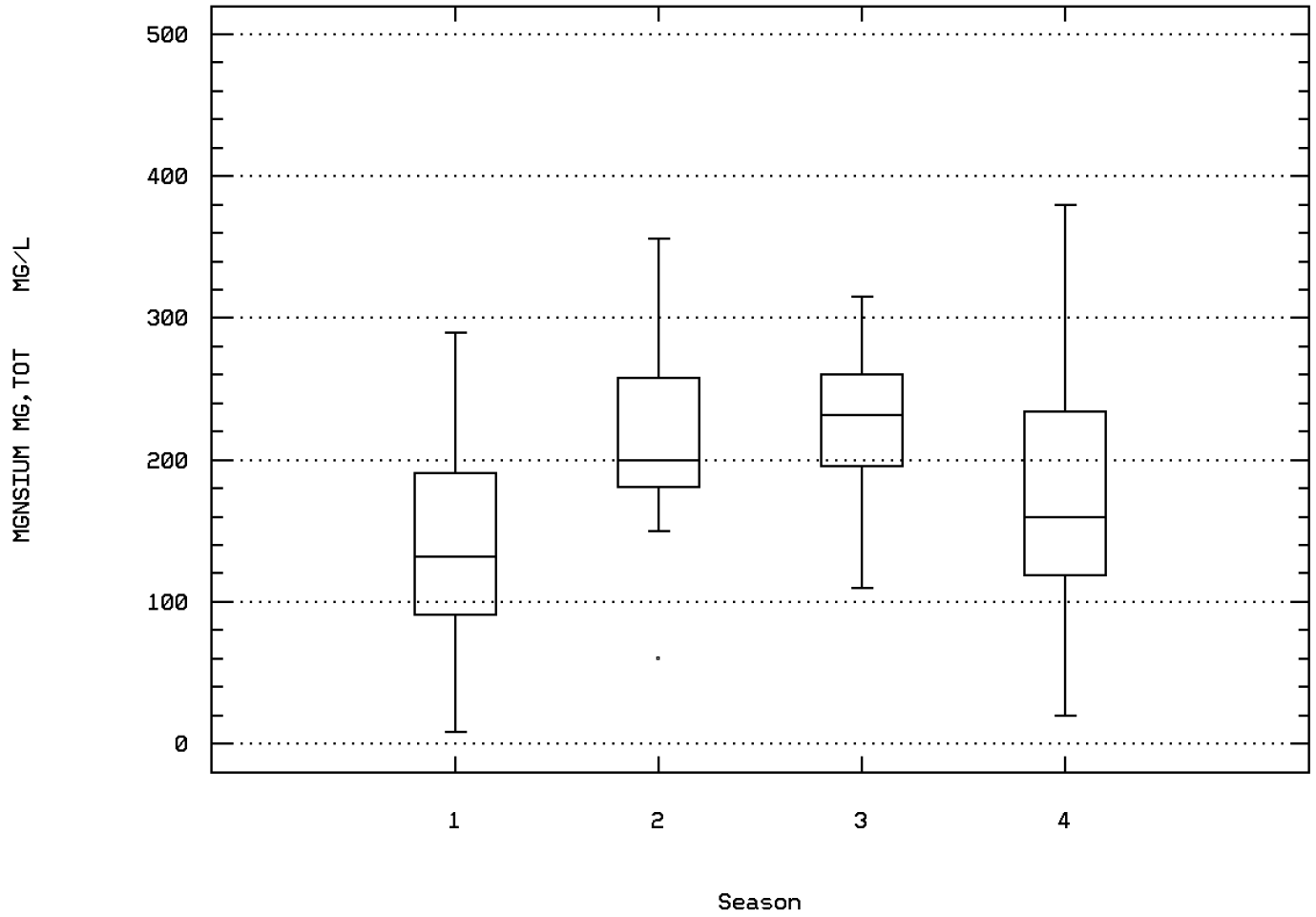
MCELMO CREEK WEST OF CORTEZ



MCELMO CREEK WEST OF CORTEZ

Station: HOVE0040 Parameter Code: 00927

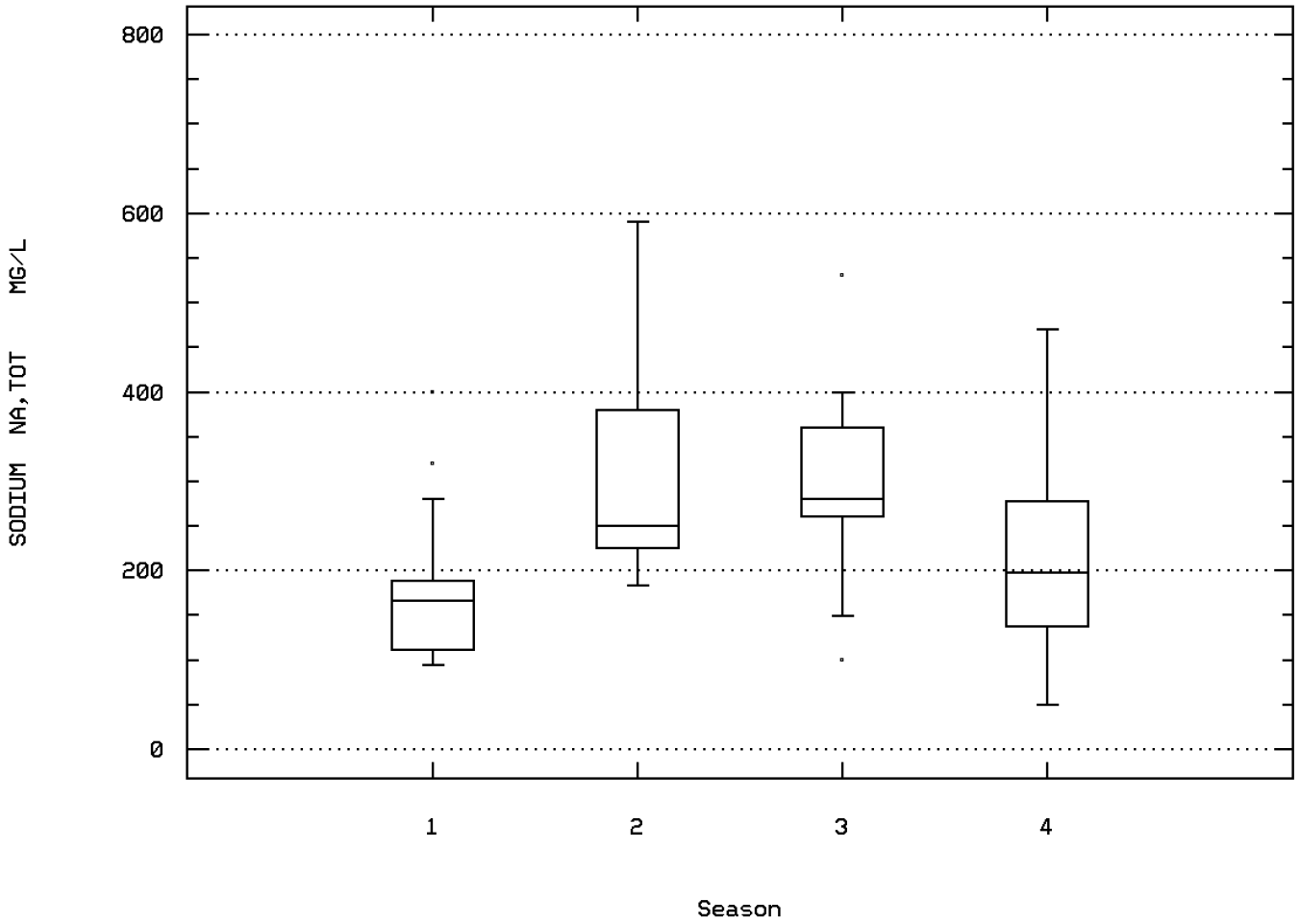
MAGNESIUM, TOTAL (MG/L AS MG)



MCELMO CREEK WEST OF CORTEZ

Station: HOVE0040 Parameter Code: 00929

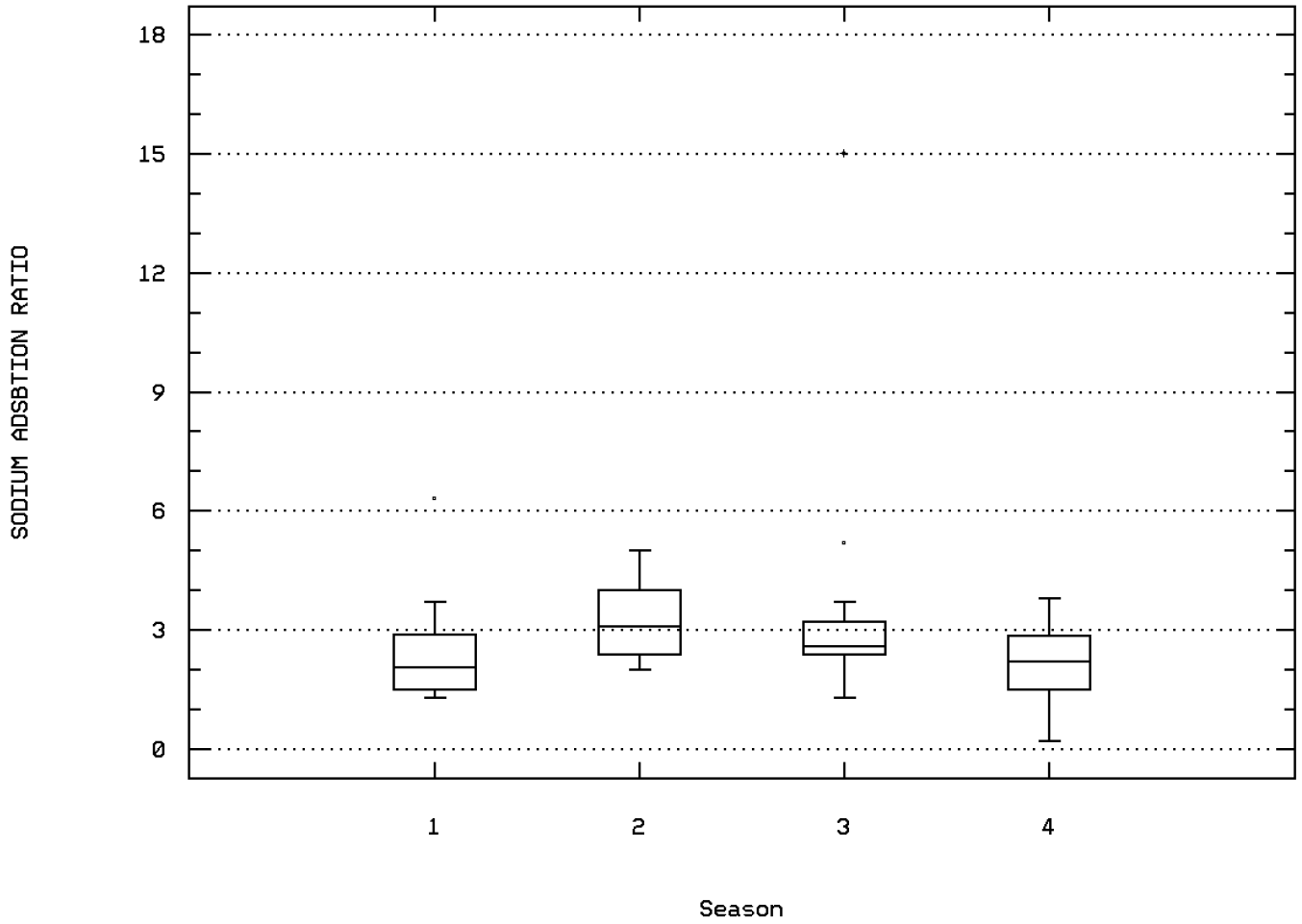
SODIUM, TOTAL (MG/L AS NA)



MCELMO CREEK WEST OF CORTEZ

Station: HOVE0040 Parameter Code: 00931

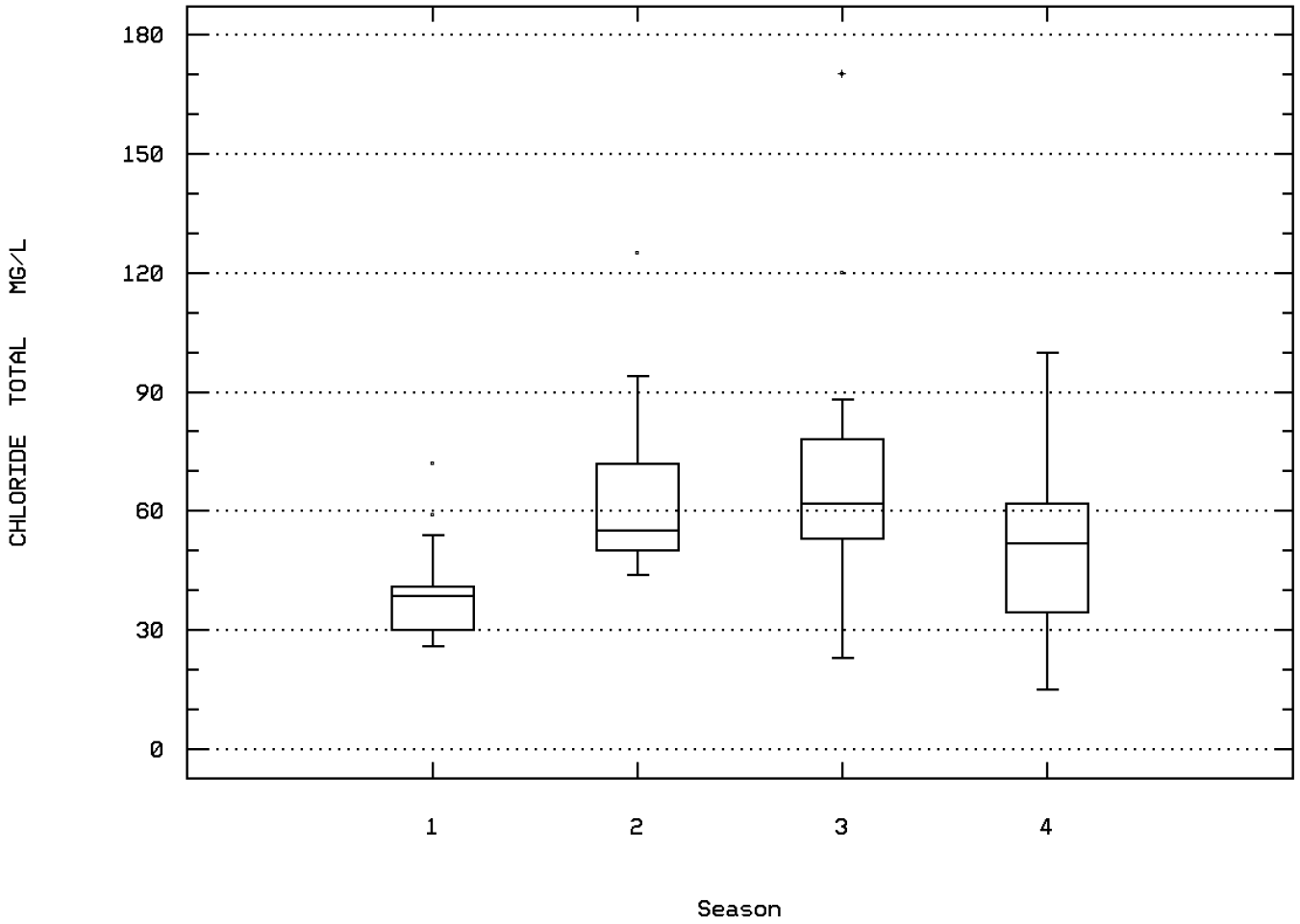
SODIUM ADSORPTION RATIO



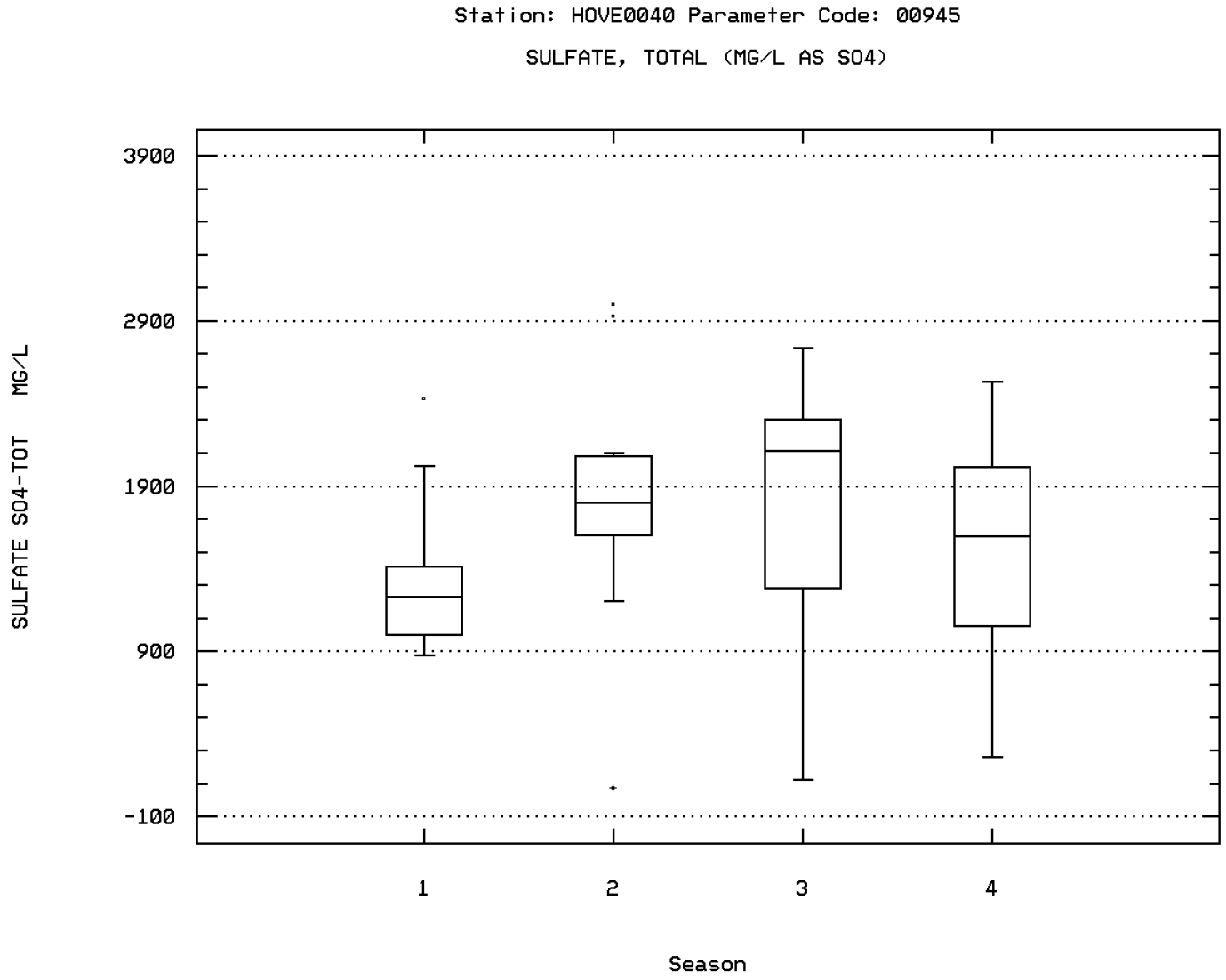
MCELMO CREEK WEST OF CORTEZ

Station: HOVE0040 Parameter Code: 00940

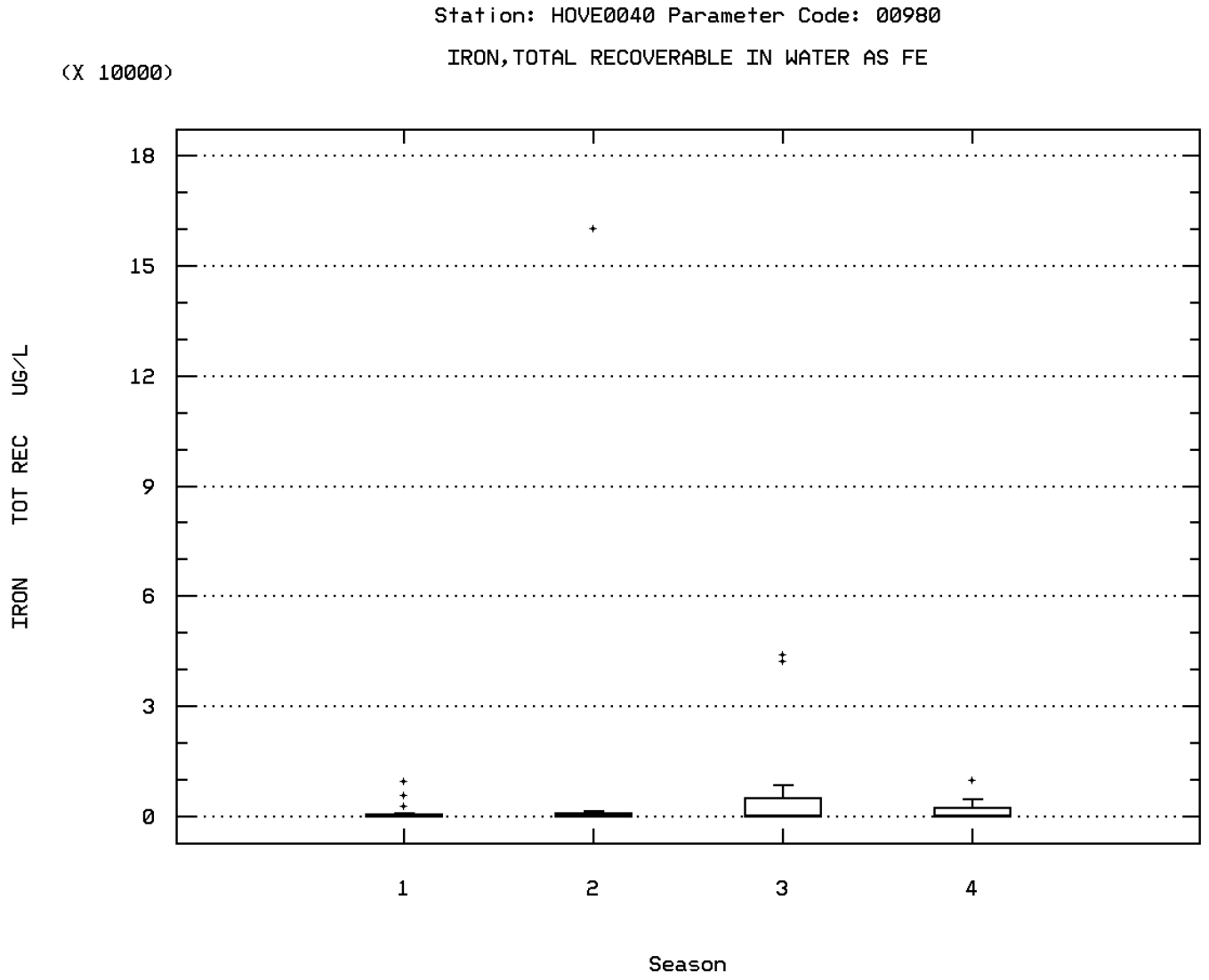
CHLORIDE,TOTAL IN WATER



MCELMO CREEK WEST OF CORTEZ



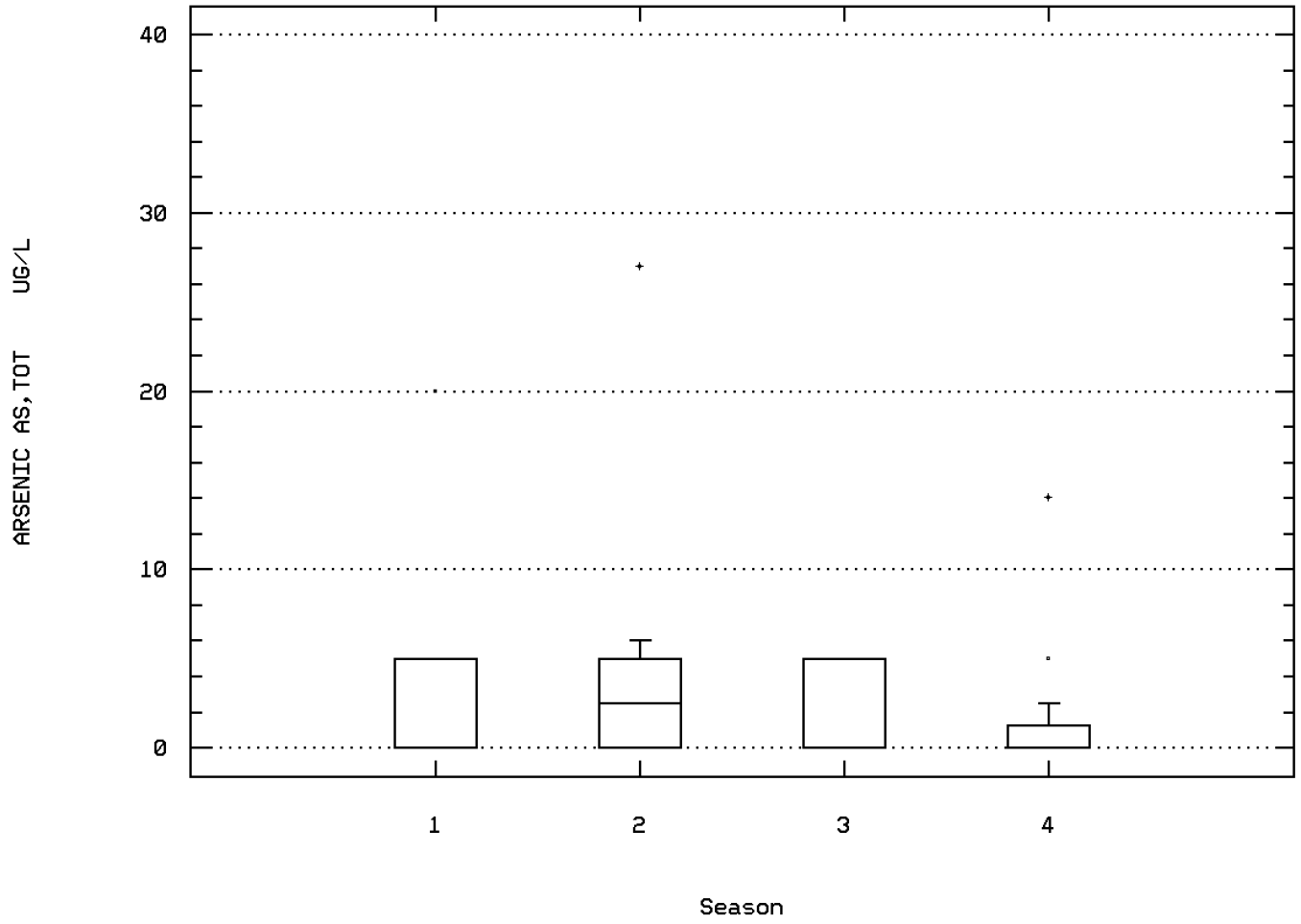
MCELMO CREEK WEST OF CORTEZ



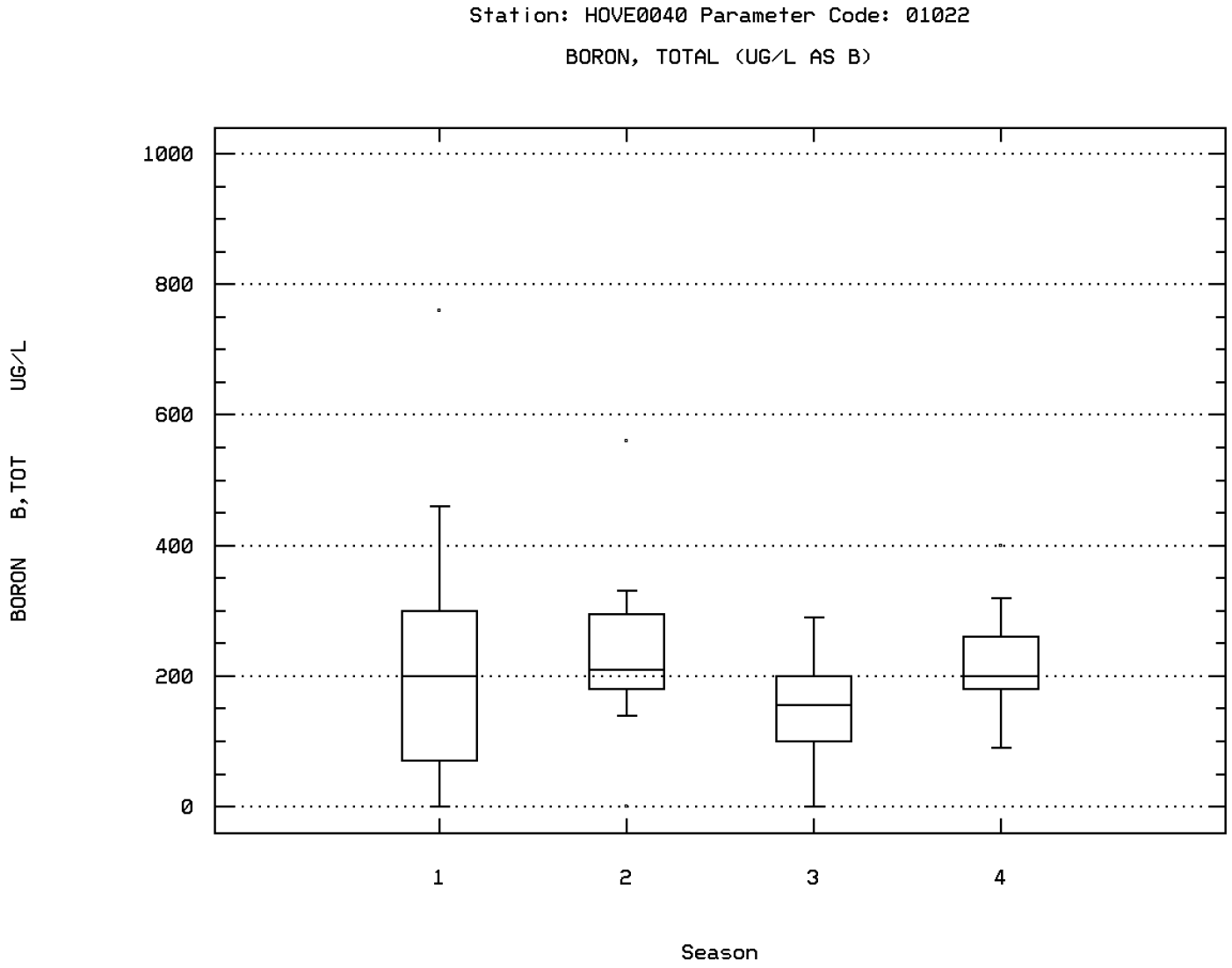
MCELMO CREEK WEST OF CORTEZ

Station: HOVE0040 Parameter Code: 01002

ARSENIC, TOTAL (UG/L AS AS)



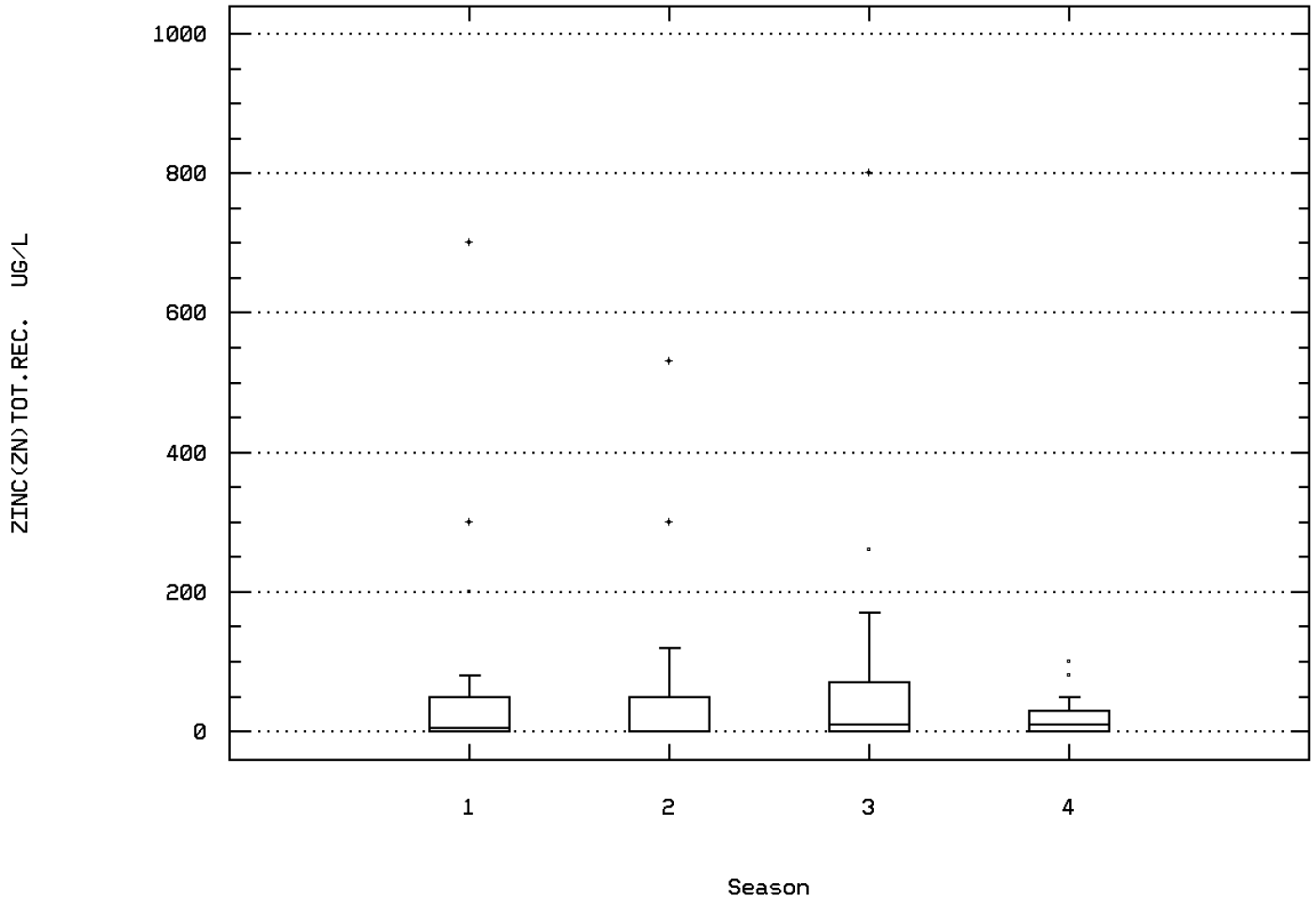
MCELMO CREEK WEST OF CORTEZ



MCELMO CREEK WEST OF CORTEZ

Station: HOVE0040 Parameter Code: 01094

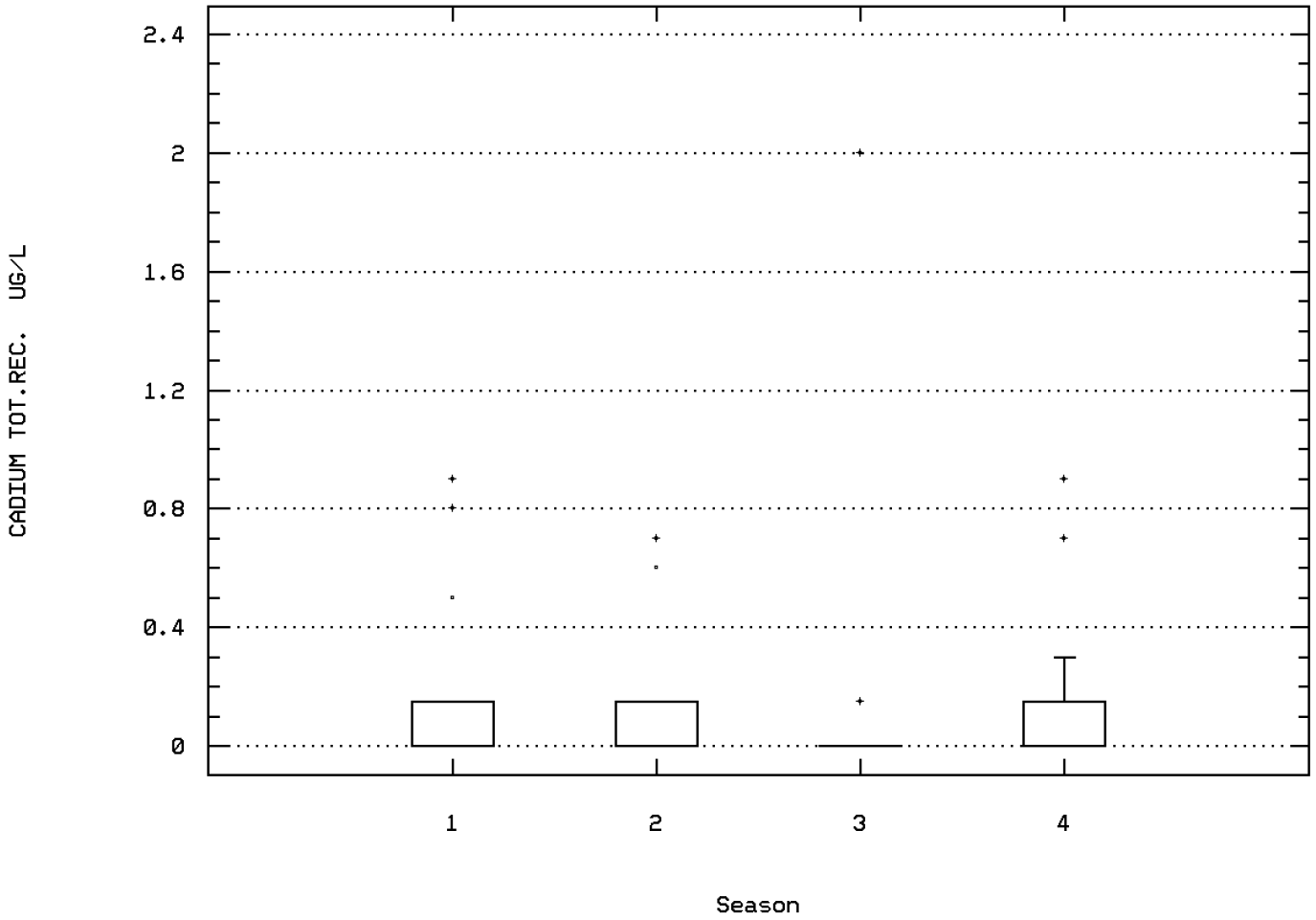
ZINC,TOTAL RECOVERABLE IN WATER AS ZN



MCELMO CREEK WEST OF CORTEZ

Station: HOVE0040 Parameter Code: 01113

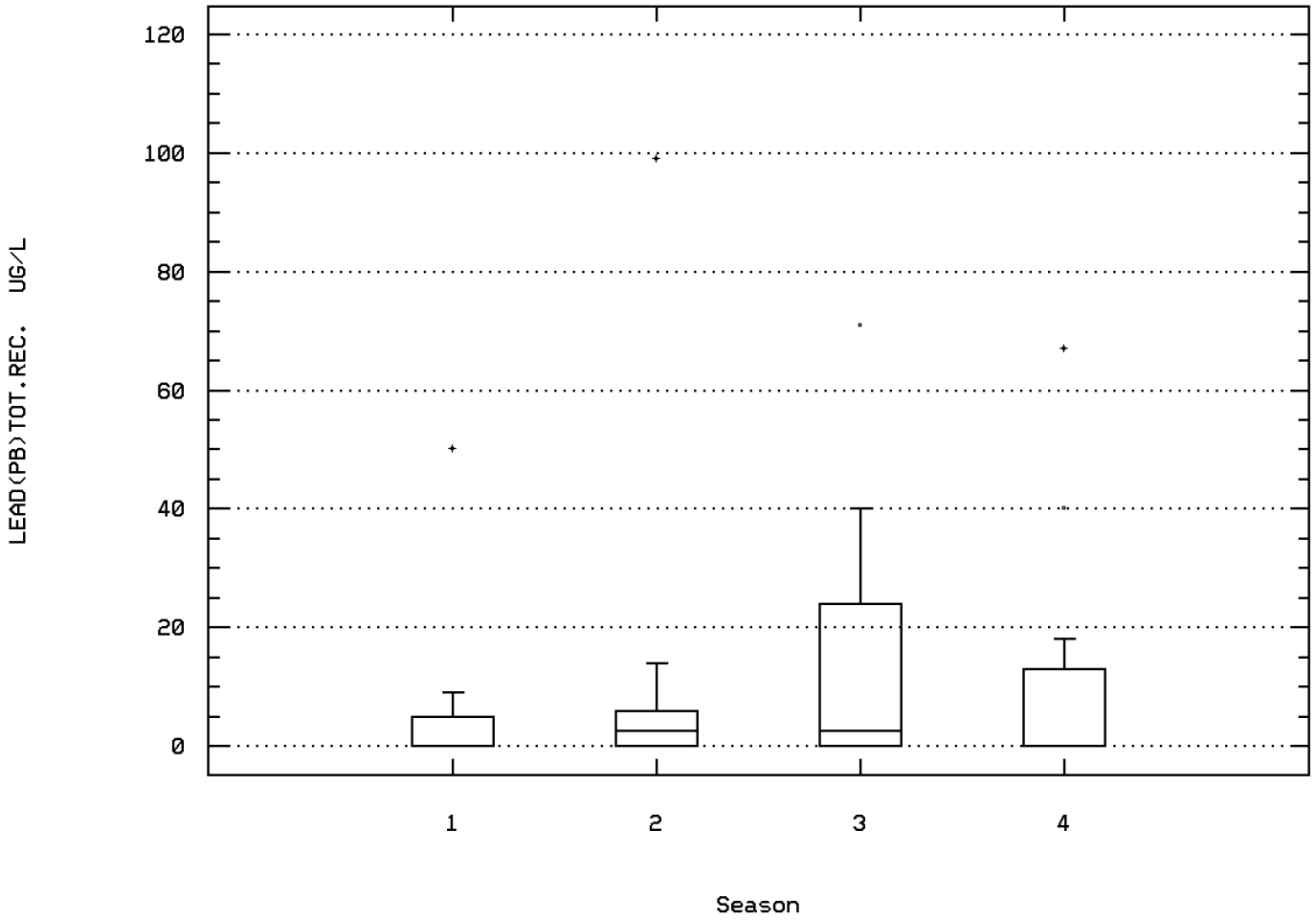
CADMIUM,TOTAL RECOVERABLE IN WATER AS C



MCELMO CREEK WEST OF CORTEZ

Station: HOVE0040 Parameter Code: 01114

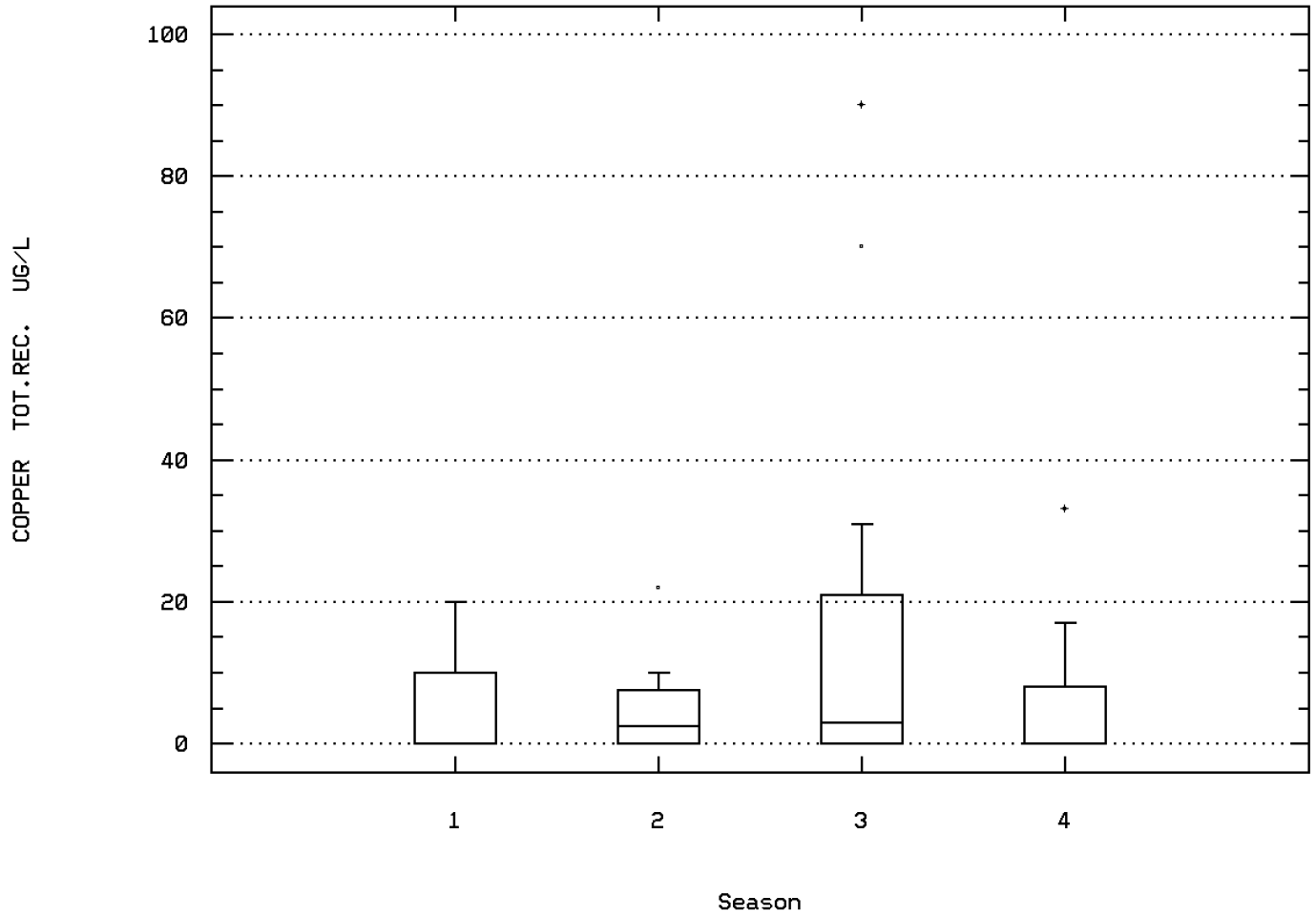
LEAD,TOTAL RECOVERABLE IN WATER AS PB



MCELMO CREEK WEST OF CORTEZ

Station: HOVE0040 Parameter Code: 01119

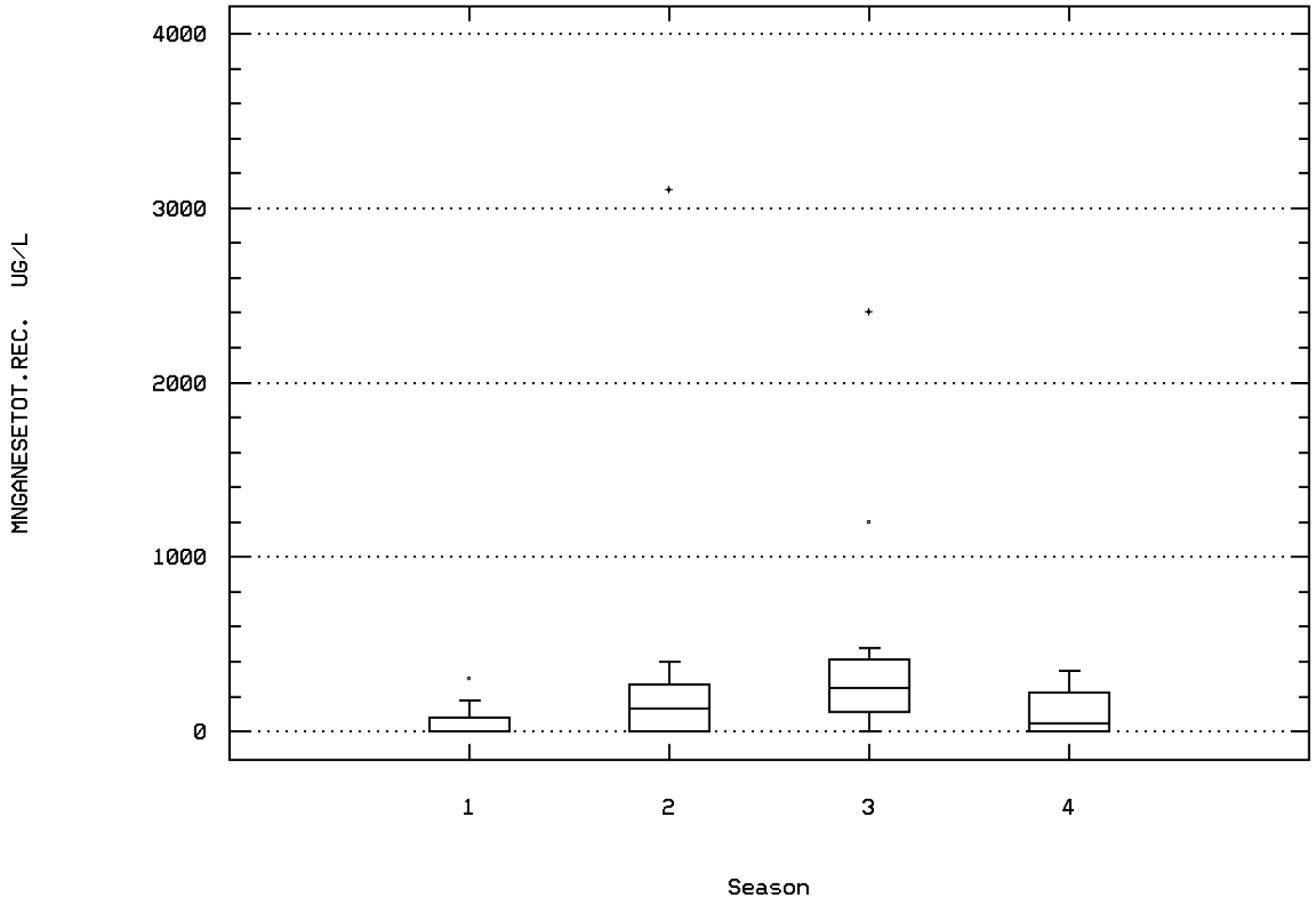
COPPER,TOTAL RECOVERABLE IN WATER AS CU



MCELMO CREEK WEST OF CORTEZ

Station: HOVE0040 Parameter Code: 01123

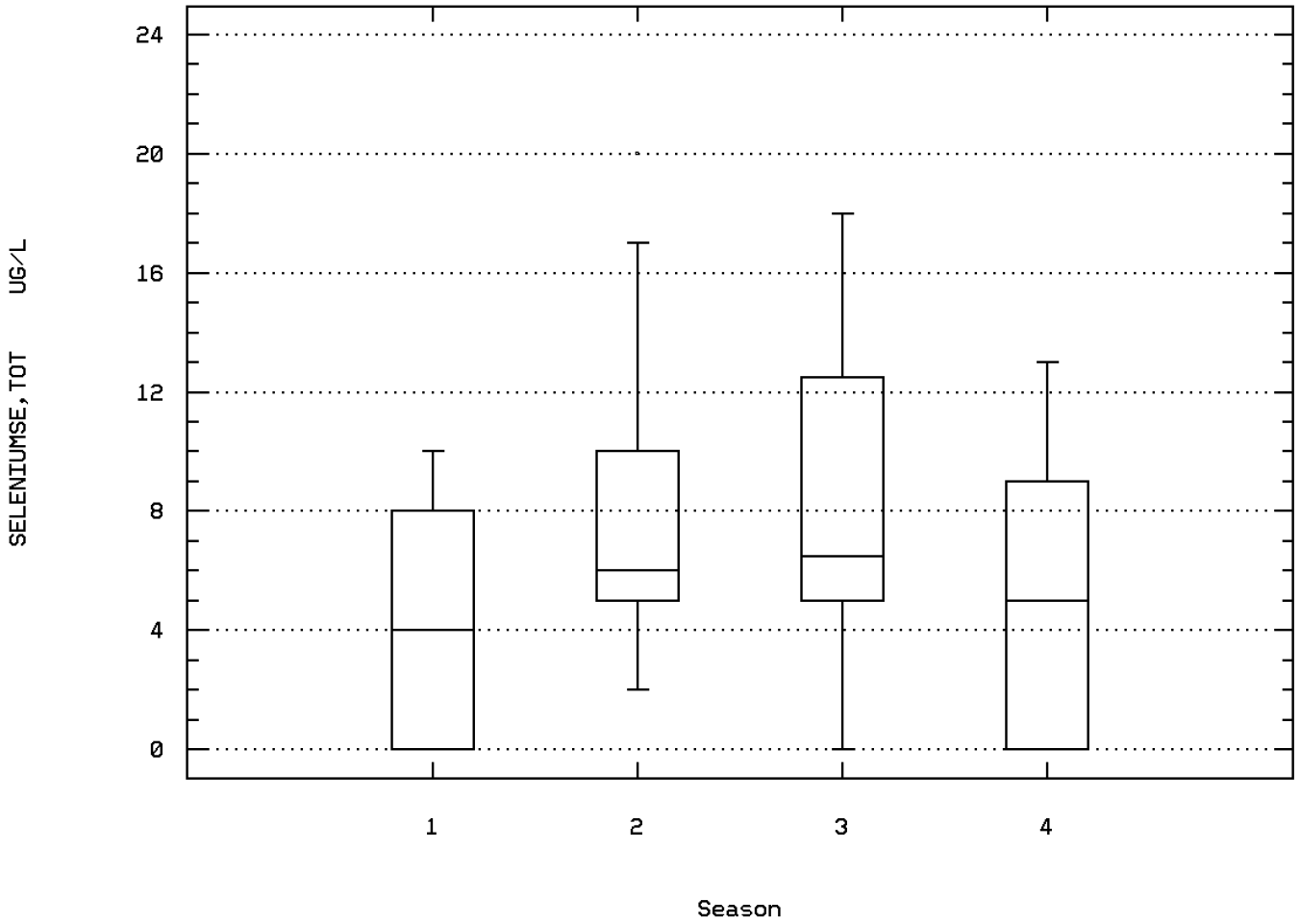
MANGANESE,TOTAL RECOVERABLE IN WATER AS



MCELMO CREEK WEST OF CORTEZ

Station: HOVE0040 Parameter Code: 01147

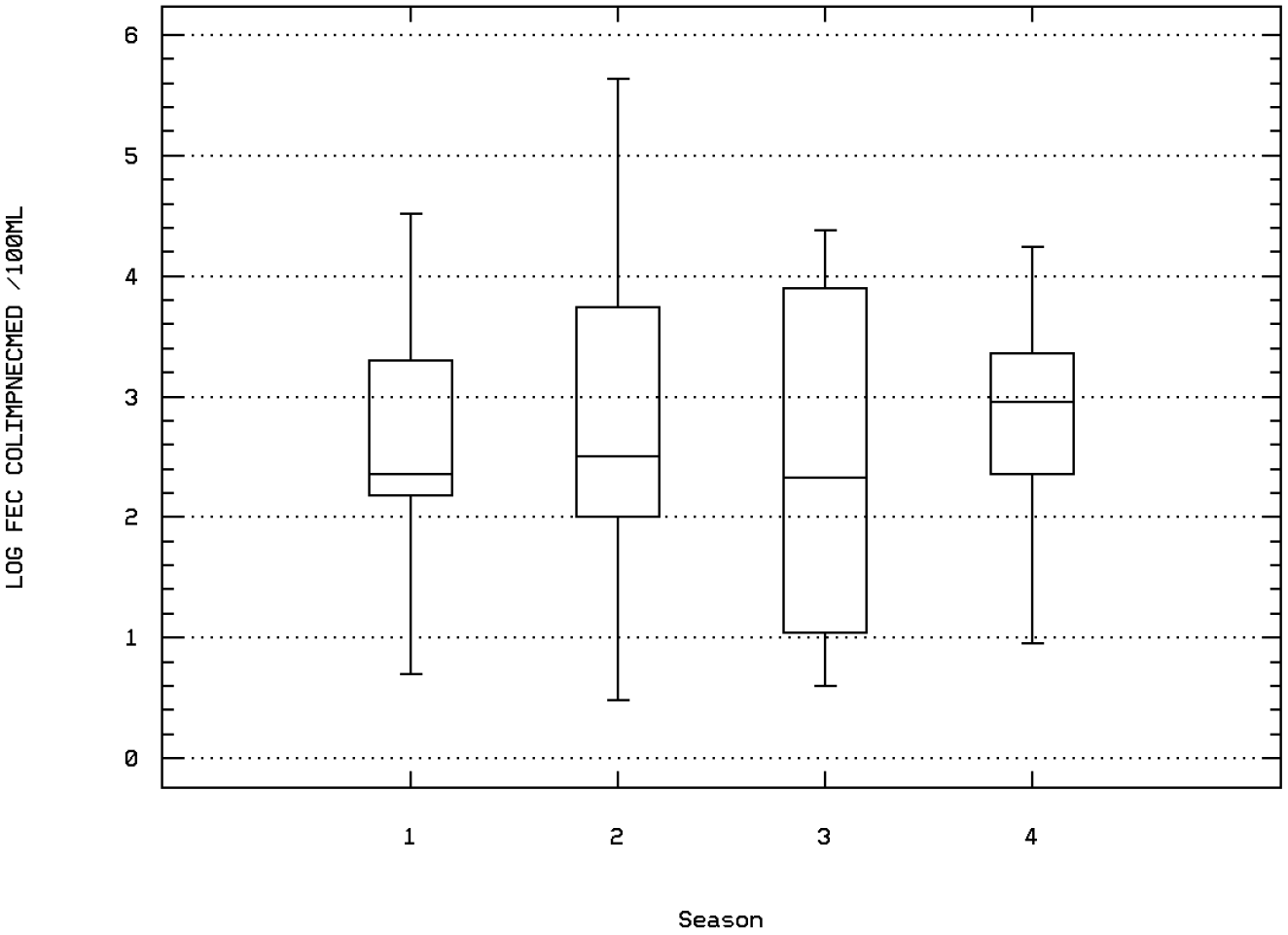
SELENIUM, TOTAL (UG/L AS SE)



MCELMO CREEK WEST OF CORTEZ

Station: HOVE0040 Parameter Code: 31615

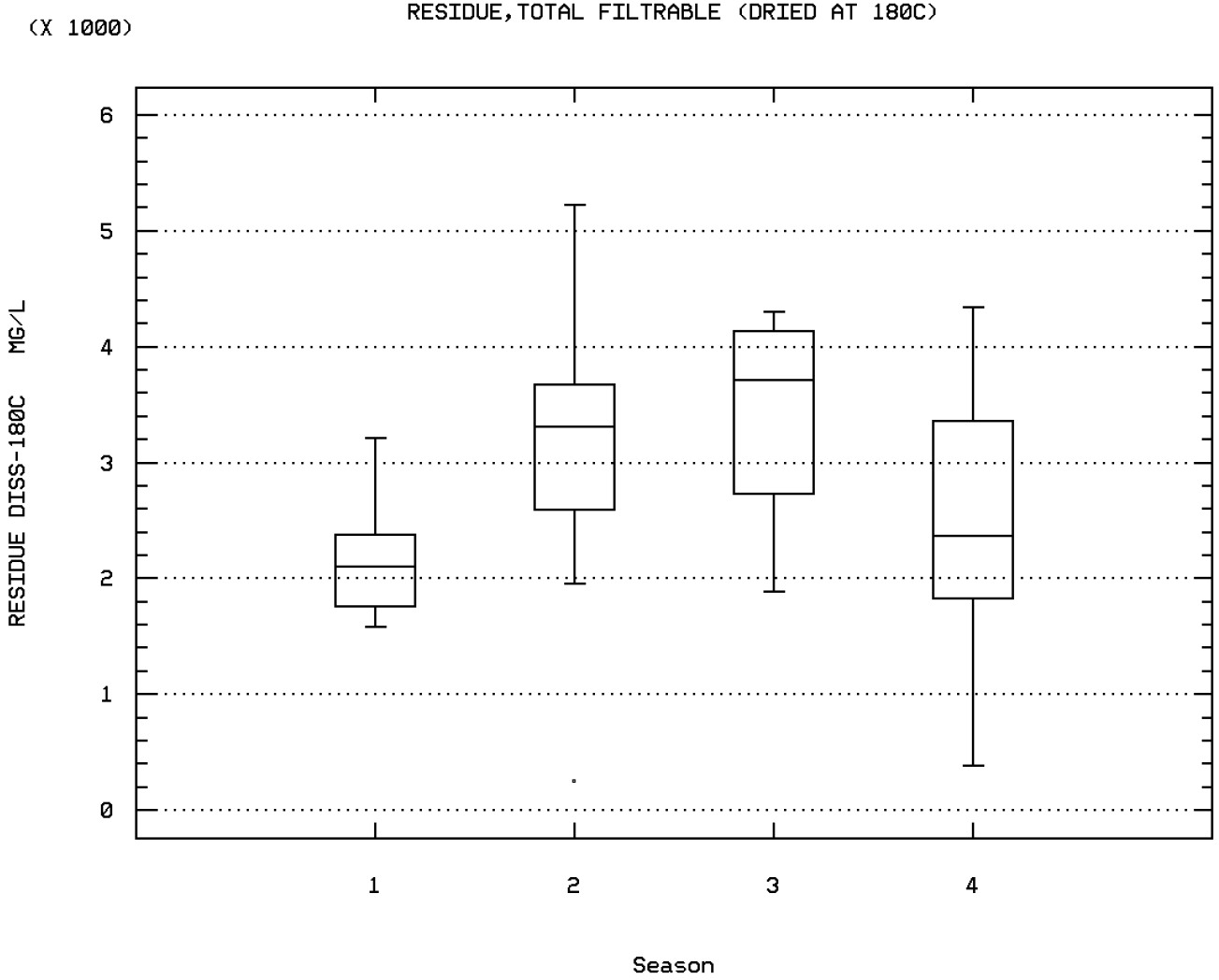
LOG FECAL COLIFORM,MPN,EC MED,44.5C (TU



MCELMO CREEK WEST OF CORTEZ

Station: HOVE0040 Parameter Code: 70300

RESIDUE,TOTAL FILTRABLE (DRIED AT 180C)



MCELMO CREEK WEST OF CORTEZ

Station Inventory for Station: HOVE0041

NPS Station ID: HOVE0041 | LAT/LON: 37.391392/-108.845003 | Agency: 11NPSWRD | Date Created: 08/15/98
Location: C24686 | FIPS State/County: 08083 COLORADO/MONTEZUMA
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): HOVE_NURE_11 /1085251
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 14080202 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 0 | Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER SAN JUAN RIVER | ECO Region:
RF1 Index: 14080202 | RF1 Mile Point: 0.000 | Distance from RF1: 0.20 | On/Off RF1:
RF3 Index: 14080203001600.00 | RF3 Mile Point: 3.26 | Distance from RF3: 0.11 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE WOODS CANYON COLORADO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE HOVENWEEP NATIONAL MONUMENT BOUNDARY. THE SAMPLES WERE FILTERED THROUGH A 0.45 UM MEMBRANE FILTER AND ACIDIFIED TO A PH OF LESS THAN OR EQUAL TO 1 WITH REAGENT GRADE NITRIC ACID. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NATIONAL PARK SERVICE-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: HOVE0041

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/31/77-08/31/77	1	17.	17.	17.	17.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/31/77-08/31/77	1	900.	900.	900.	900.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/31/77-08/31/77	1	6.4	6.4	6.4	6.4	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/31/77-08/31/77	1	6.4	6.4	6.4	6.4	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/31/77-08/31/77	1	0.398	0.398	0.398	0.398	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/31/77-08/31/77	1	84.3	84.3	84.3	84.3	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/31/77-08/31/77	1	37.	37.	37.	37.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	08/31/77-08/31/77	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	08/31/77-08/31/77	1 ##	27.5	27.5	27.5	27.5	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	08/31/77-08/31/77	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/31/77-08/31/77	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	08/31/77-08/31/77	1 ##	100.	100.	100.	100.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/31/77-08/31/77	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	08/31/77-08/31/77	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	08/31/77-08/31/77	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	08/31/77-08/31/77	1	160.	160.	160.	160.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	08/31/77-08/31/77	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	08/31/77-08/31/77	1	5.13	5.13	5.13	5.13	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: HOVE0041

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/15 Obs	7/01-10/15 Exceed	7/01-10/15 Prop.	10/16-12/31 Obs	10/16-12/31 Exceed	10/16-12/31 Prop.	1/01-3/15 Obs	1/01-3/15 Exceed	1/01-3/15 Prop.	3/16-6/30 Obs	3/16-6/30 Exceed	3/16-6/30 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									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01049	LEAD, DISSOLVED	Fresh Acute	82.	0 &	0	0.00												
		Drinking Water	15.	0 &	0	0.00												
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	1	1.00	1	1	1.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: HOVE0042

NPS Station ID: HOVE0042 | LAT/LON: 37.325615/-108.885615 | Agency: 11NPSWRD | Date Created: 08/15/98
Location: C24540 | FIPS State/County: 08083 COLORADO/MONTEZUMA
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): HOVE_NURE_07 /1085208
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 14080202 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 0 | Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER SAN JUAN RIVER | ECO Region:
RF1 Index: 14080202 | RF1 Mile Point: 0.000 | Distance from RF1: 0.20 | On/Off RF1:
RF3 Index: 14080203001600.00 | RF3 Mile Point: 3.26 | Distance from RF3: 0.11 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE BOWDISH CANYON COLORADO 7.5 MINUTE SERIES (TOPO.) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE OF THE HOVENWEEP NATIONAL MONUMENT BOUNDARY. THE SAMPLES WERE FILTERED THROUGH A 0.45 UM MEMBRANE FILTER AND ACIDIFIED TO A PH OF LESS THAN OR EQUAL TO 1 WITH REAGENT GRADE NITRIC ACID. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NATIONAL PARK SERVICE-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: HOVE0042

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/01/77-09/01/77	1	17.2	17.2	17.2	17.2	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/01/77-09/01/77	1	3725.	3725.	3725.	3725.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	09/01/77-09/01/77	1	6.4	6.4	6.4	6.4	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/01/77-09/01/77	1	6.4	6.4	6.4	6.4	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/01/77-09/01/77	1	0.398	0.398	0.398	0.398	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/01/77-09/01/77	1	319.	319.	319.	319.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/01/77-09/01/77	1	219.	219.	219.	219.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/01/77-09/01/77	1	238.	238.	238.	238.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	09/01/77-09/01/77	1	232.	232.	232.	232.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	09/01/77-09/01/77	1	75.	75.	75.	75.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	09/01/77-09/01/77	1	128.	128.	128.	128.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	09/01/77-09/01/77	1 ##	100.	100.	100.	100.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/01/77-09/01/77	1	495.	495.	495.	495.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	09/01/77-09/01/77	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	09/01/77-09/01/77	1	438.	438.	438.	438.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	09/01/77-09/01/77	1	273.	273.	273.	273.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	09/01/77-09/01/77	1	94.	94.	94.	94.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	09/01/77-09/01/77	1	4.47	4.47	4.47	4.47	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: HOVE0042

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/15 Obs	7/01-10/15 Exceed	7/01-10/15 Prop.	10/16-12/31 Obs	10/16-12/31 Exceed	10/16-12/31 Prop.	1/01-3/15 Obs	1/01-3/15 Exceed	1/01-3/15 Prop.	3/16-6/30 Obs	3/16-6/30 Exceed	3/16-6/30 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									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	1	1.00	1	1	1.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	1	1.00	1	1	1.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01049	LEAD, DISSOLVED	Fresh Acute	82.	0 &	0	0.00												
		Drinking Water	15.	0 &	0	0.00												
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	1	1.00	1	1	1.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	1	1.00	1	1	1.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: HOVE0043

NPS Station ID: HOVE0043 LAT/LON: 37.349170/-109.010003 Agency: 112WRD Date Created: 01/26/80
Location: YELLOWJACKET CANYON (ANETH 1 SE QUAD) FIPS State/County: 08083 COLORADO/MONTEZUMA
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 372057109003601
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 14080202 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 14080202 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 14080202012900.00 RF3 Mile Point: 0.17 Distance from RF3: 0.02 On/Off RF3:
Description:

Parameter Inventory for Station: HOVE0043

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/04/79-09/04/79	1	29.	29.	29.	29.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/04/79-09/04/79	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/04/79-09/04/79	1	1140.	1140.	1140.	1140.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	09/04/79-09/04/79	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/04/79-09/04/79	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/04/79-09/04/79	1	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/04/79-09/04/79	1	200.	200.	200.	200.	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	09/04/79-09/04/79	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/04/79-09/04/79	1	0.09	0.09	0.09	0.09	0.	0.	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	09/04/79-09/04/79	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/04/79-09/04/79	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/04/79-09/04/79	1	470.	470.	470.	470.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/04/79-09/04/79	1	270.	270.	270.	270.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/04/79-09/04/79	1	91.	91.	91.	91.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/04/79-09/04/79	1	59.	59.	59.	59.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/04/79-09/04/79	1	61.	61.	61.	61.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	09/04/79-09/04/79	1	1.2	1.2	1.2	1.2	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	09/04/79-09/04/79	1	22.	22.	22.	22.	0.	0.	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	09/04/79-09/04/79	1	65.	65.	65.	65.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/04/79-09/04/79	1	4.1	4.1	4.1	4.1	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/04/79-09/04/79	1	35.	35.	35.	35.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	09/04/79-09/04/79	1	350.	350.	350.	350.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/04/79-09/04/79	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/04/79-09/04/79	1	13.	13.	13.	13.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	09/04/79-09/04/79	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/04/79-09/04/79	1	8.	8.	8.	8.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/04/79-09/04/79	1	734.	734.	734.	734.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	09/04/79-09/04/79	1	13.5	13.5	13.5	13.5	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/04/79-09/04/79	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

EPA Water Quality Criteria Analysis for Station: HOVE0043

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/15 Obs	7/01-10/15 Exceed	7/01-10/15 Prop.	10/16-12/31 Obs	10/16-12/31 Exceed	10/16-12/31 Prop.	1/01-3/15 Obs	1/01-3/15 Exceed	1/01-3/15 Prop.	3/16-6/30 Obs	3/16-6/30 Exceed	3/16-6/30 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									
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	1	0	0.00	1	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
		Drinking Water	250.	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	1	1.00	1	1	1.00									
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: HOVE0044

NPS Station ID: HOVE0044 LAT/LON: 37.324170/-109.015004 Agency: 112WRD Date Created: / /
Location: MCELMO CREEK NEAR COLORADO-UTAH STATE LINE FIPS State/County: 08083 COLORADO/MONTEZUMA
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 09372000
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 14080202 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 14080202004 RF1 Mile Point: 2.070 Distance from RF1: 0.40 On/Off RF1: OFF
RF3 Index: 14080202000307.26 RF3 Mile Point: 8.19 Distance from RF3: 0.01 On/Off RF3:
Description:

Parameter Inventory for Station: HOVE0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	08/27/87-03/10/97	96	25.	24.385	30.	4.	13.187	3.631	21.	23.25	26.	28.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/60-03/10/97	345	13.5	12.413	28.	0.	60.01	7.747	1.	5.5	19.	22.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/13/70-09/10/70	3	22.	24.333	30.	21.	24.333	4.933	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	03/27/90-11/14/90	3	636.	638.333	643.	636.	16.333	4.041	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	08/27/69-12/04/70	7	50.	56.429	133.	15.	1323.286	36.377	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	12/27/77-03/10/97	159	55.	71.755	689.	3.	5293.465	72.756	24.	37.	84.	128.
00065	STAGE, STREAM (FEET)	08/27/87-03/10/97	105	3.03	3.082	4.86	1.39	0.156	0.395	2.72	2.89	3.245	3.42
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	05/22/79-05/26/81	5	130.	384.96	1500.	8.8	392830.608	626.762	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/27/80-10/27/80	1	2500.	2500.	2500.	2500.	0.	0.	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/27/69-03/10/97	200	2500.	2555.915	4500.	1400.	469979.576	685.551	1723.6	1932.5	3060.	3498.
00300	OXYGEN, DISSOLVED MG/L	05/13/70-11/14/90	31	9.7	9.552	12.4	6.8	2.765	1.663	7.32	8.	10.9	12.06
00340	COD, .25N K2CR2O7 MG/L	12/27/77-07/27/81	23	46.	54.913	280.	18.	2877.992	53.647	20.8	27.	60.	98.4
00400p	PH (STANDARD UNITS)	08/27/69-03/10/97	134	8.2	8.165	9.	6.9	0.082	0.286	7.8	8.075	8.355	8.4
00400p	CONVERTED PH (STANDARD UNITS)	08/27/69-03/10/97	134	8.2	8.038	9.	6.9	0.098	0.313	7.8	8.075	8.355	8.4
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/27/69-03/10/97	134	0.006	0.009	0.126	0.001	0.	0.012	0.004	0.004	0.008	0.016
00403p	PH, LAB, STANDARD UNITS SU	10/07/80-01/24/97	109	7.9	7.895	8.2	7.4	0.027	0.164	7.7	7.8	8.	8.1
00403p	CONVERTED PH, LAB, STANDARD UNITS	10/07/80-01/24/97	109	7.9	7.864	8.2	7.4	0.028	0.167	7.7	7.8	8.	8.1
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/07/80-01/24/97	109	0.013	0.014	0.04	0.006	0.	0.006	0.008	0.01	0.016	0.02
00405	CARBON DIOXIDE (MG/L AS CO2)	12/27/77-06/26/79	10	5.05	6.18	20.	1.5	28.464	5.335	1.55	2.45	7.25	18.8
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/27/69-09/08/80	22	250.	262.818	350.	160.	2073.68	45.538	210.3	240.	292.5	339.2
00440	BICARBONATE ION (MG/L AS HCO3)	08/27/69-06/26/79	14	305.	314.071	430.	200.	3821.918	61.822	225.	281.75	342.5	425.
00445	CARBONATE ION (MG/L AS CO3)	12/19/69-06/26/79	14	0.	2.214	31.	0.	68.643	8.285	0.	0.	0.	15.5
00572	BIOMASS, PERIPHYTON (GRAMS PER SQUARE METER)	03/06/78-05/12/80	3	0.787	0.681	1.1	0.157	0.231	0.48	**	**	**	**
00573	BIOMASS, PERIPHYTON,DRY WEIGHT TOTAL (G/M2)	03/06/78-05/12/80	3	0.95	0.79	1.26	0.16	0.322	0.567	**	**	**	**
00600	NITROGEN, TOTAL (MG/L AS N)	12/27/77-07/27/81	23	3.4	4.104	14.	1.3	7.354	2.712	1.68	2.7	4.7	7.36
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	12/27/77-07/27/81	23	0.94	1.742	12.	0.4	5.719	2.392	0.644	0.77	1.7	3.52
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	11/14/90-11/14/90	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/27/77-07/27/81	24	0.06	0.126	1.3	0.	0.066	0.258	0.02	0.04	0.123	0.215
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	11/14/90-11/14/90	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	12/27/77-07/27/81	23	1.	1.813	12.	0.46	5.63	2.373	0.744	0.84	1.8	3.56
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	12/27/77-07/27/81	24	2.	2.25	5.8	0.36	1.942	1.394	0.8	1.	3.075	4.6
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/27/87-11/14/90	37	1.1	1.339	3.7	0.	0.969	0.985	0.28	0.6	2.1	2.94
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	04/25/79-06/26/79	3	2.	2.303	4.6	0.31	4.67	2.161	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	12/27/77-07/27/81	24	0.34	0.485	2.4	0.01	0.281	0.53	0.085	0.158	0.608	1.235
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	12/27/77-07/27/81	24	0.055	0.072	0.26	0.01	0.004	0.06	0.025	0.03	0.078	0.18
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	11/14/90-11/14/90	1	200.	200.	200.	200.	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/14/90-11/14/90	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	05/09/90-05/09/90	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: HOVE0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	01/30/78-05/09/90	24	11.	12.817	28.	0.	34.588	5.881	8.15	9.625	15.75	22.5
00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	01/30/78-01/27/81	18	0.6	0.583	1.4	0.1	0.101	0.319	0.1	0.375	0.725	1.13
00900	HARDNESS, TOTAL (MG/L AS CACO3)	12/19/69-02/23/88	28	1490.	1538.214	2200.	950.	120518.915	347.158	1090.	1300.	1800.	2010.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/27/69-07/27/81	26	1235.	1254.231	1800.	710.	98129.385	313.256	815.	1000.	1525.	1665.
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/27/69-01/24/97	133	260.	264.421	420.	0.	3674.852	60.621	200.	210.	310.	346.
00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	11/14/90-11/14/90	1	24000.	24000.	24000.	24000.	0.	0.	**	**	**	**
00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	11/14/90-11/14/90	1	3000.	3000.	3000.	3000.	0.	0.	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/27/69-01/24/97	133	150.	151.383	290.	0.	2854.602	53.428	88.4	110.	190.	220.
00930p	SODIUM, DISSOLVED (MG/L AS NA)	08/27/69-01/24/97	133	150.	159.361	330.	0.	4093.838	63.983	83.4	100.	210.	246.4
00931	SODIUM ADSORPTION RATIO	08/27/69-02/23/88	29	2.4	2.386	3.2	1.6	0.195	0.441	1.8	2.	2.75	3.
00932	SODIUM, PERCENT	08/27/69-02/23/88	28	23.	23.464	44.	18.	20.11	4.484	20.	21.	24.75	26.
00933	SODIUM,PLUS POTASSIUM (MG/L)	05/22/79-02/05/80	5	220.	216.	280.	140.	3730.	61.074	**	**	**	**
00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	11/14/90-11/14/90	1	2400.	2400.	2400.	2400.	0.	0.	**	**	**	**
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	08/27/69-01/24/97	132	5.3	5.54	13.	0.	2.437	1.561	4.2	4.6	6.175	7.47
00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	11/14/90-11/14/90	1	5900.	5900.	5900.	5900.	0.	0.	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	08/27/69-01/24/97	133	32.	34.015	84.	0.	259.954	16.123	18.	21.5	42.5	54.
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/27/69-01/24/97	133	1300.	1296.511	2300.	0.	193912.706	440.355	760.	920.	1700.	1900.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	12/27/77-01/24/97	127	0.4	0.387	0.9	0.	0.014	0.118	0.3	0.4	0.4	0.5
00955p	SILICA, DISSOLVED (MG/L AS SI02)	12/27/77-01/24/97	128	11.	10.568	16.	0.	7.528	2.744	6.9	9.425	12.	13.
01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/06/78-11/14/90	11	1.	0.909	3.	0.	0.641	0.801	0.	0.5	1.	2.6
01001	ARSENIC, SUSPENDED (UG/L AS AS)	06/09/80-05/26/81	3	2.	3.	7.	0.	13.	3.606	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	05/22/79-05/26/81	4	2.5	4.	10.	1.	16.667	4.082	**	**	**	**
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	03/06/78-11/14/90	7	4.	3.329	6.	0.	4.556	2.134	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	03/06/78-05/26/81	7	50.	62.857	200.	20.	3790.476	61.567	**	**	**	**
01006	BARIUM, SUSPENDED (UG/L AS BA)	05/22/79-05/26/81	4	200.	200.	200.	200.	0.	0.	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	05/22/79-05/26/81	4	200.	225.	300.	200.	2500.	50.	**	**	**	**
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	03/06/78-11/14/90	7	100.	265.429	900.	40.	100112.952	316.406	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	03/06/78-05/26/81	7 ##	1.5	2.571	5.	0.5	5.286	2.299	**	**	**	**
01011	BERYLLIUM, SUSPENDED (UG/L AS BE)	05/22/79-05/22/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	05/22/79-05/26/81	4	0.	1.25	5.	0.	6.25	2.5	**	**	**	**
01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	03/06/78-11/14/90	7	0.5	1.929	10.	0.	13.202	3.634	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	12/27/77-11/14/90	28	180.	181.429	270.	0.	3027.513	55.023	110.	150.	230.	240.
01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/06/78-11/14/90	11 ##	0.5	0.909	2.	0.	0.441	0.664	0.1	0.5	1.5	2.
01026	CADMIUM, SUSPENDED (UG/L AS CD)	05/22/79-05/22/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	05/22/79-05/26/81	4	0.5	0.5	1.	0.	0.333	0.577	**	**	**	**
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	03/06/78-11/14/90	7	1.	0.857	1.	0.	0.143	0.378	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	03/06/78-11/14/90	7	6.	7.714	20.	3.	34.905	5.908	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/06/78-11/14/90	11	0.5	4.909	20.	0.	44.441	6.666	0.	0.	10.	18.
01031	CHROMIUM, SUSPEND (UG/L AS CR)	05/22/79-05/26/81	4	0.	22.5	90.	0.	2025.	45.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	05/22/79-05/26/81	4	10.	27.5	90.	0.	1758.333	41.932	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	03/06/78-05/26/81	7 ##	1.5	1.643	4.	0.	1.476	1.215	**	**	**	**
01036	COBALT, SUSPENDED (UG/L AS CO)	05/22/79-05/22/79	1	180.	180.	180.	180.	0.	0.	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	05/22/79-05/26/81	4	3.	46.5	180.	0.	7925.667	89.026	**	**	**	**
01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	03/06/78-11/14/90	7	4.	5.429	10.	0.	20.952	4.577	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	03/06/78-11/14/90	11	3.	3.773	12.5	0.	11.868	3.445	0.2	1.	5.	11.
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	03/06/78-11/14/90	7	8.	8.714	14.	5.	13.905	3.729	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	12/27/77-07/27/81	23	30.	44.261	370.	5.	5493.474	74.118	5.	10.	50.	73.8
01049	LEAD, DISSOLVED (UG/L AS PB)	03/06/78-11/14/90	11 ##	3.	3.409	12.5	0.	13.891	3.727	0.	0.5	5.	11.
01050	LEAD, SUSPENDED (UG/L AS PB)	05/22/79-05/22/79	1	440.	440.	440.	440.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	05/22/79-05/26/81	4	9.	115.	440.	2.	46958.	216.698	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	03/06/78-11/14/90	7	10.	11.286	20.	0.	48.238	6.945	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	03/06/78-11/14/90	7	220.	235.714	410.	160.	6528.571	80.8	**	**	**	**
01054	MANGANESE, SUSPENDED (UG/L AS MN)	05/22/79-05/26/81	4	395.	905.	2800.	30.	1625633.333	1275.003	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	05/22/79-05/26/81	4	450.	945.	2800.	80.	1560833.333	1249.333	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/06/78-05/26/81	7	54.	75.143	230.	13.	5424.143	73.649	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	03/06/78-11/14/90	11	5.	5.318	13.	0.	15.714	3.964	0.6	3.	5.	12.9
01061	MOLYBDENUM, SUSPENDED (UG/L AS MO)	05/22/79-05/22/79	1	11.	11.	11.	11.	0.	0.	**	**	**	**
01062	MOLYBDENUM, TOTAL (UG/L AS MO)	05/22/79-05/26/81	4	3.5	5.75	16.	0.	49.583	7.042	**	**	**	**
01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	03/06/78-11/14/90	7	8.	7.714	17.	0.	50.571	7.111	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	03/06/78-05/26/81	7	4.	5.714	15.	0.	30.905	5.559	**	**	**	**
01066	NICKEL, SUSPENDED (UG/L AS NI)	05/22/79-05/26/81	4	13.5	69.5	250.	1.	14523.	120.511	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	05/22/79-05/26/81	4	15.5	73.5	260.	3.	15495.	124.479	**	**	**	**
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	03/06/78-11/14/90	7	10.	9.	20.	0.	73.667	8.583	**	**	**	**

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

Parameter Inventory for Station: HOVE0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	11/14/90-11/14/90	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	04/14/80-05/26/81	4	3300.	2875.	3700.	1200.	1309166.667	1144.188	**	**	**	**
01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	04/25/79-11/14/90	2	70.5	70.5	140.	1.	9660.5	98.288	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	03/06/78-11/14/90	11	1.5	2.955	14.	0.	17.573	4.192	0.	0.	5.	12.4
01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	11/14/90-11/14/90	1	18.	18.	18.	18.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/06/78-11/14/90	11	5.	10.682	50.	0.	199.514	14.125	0.3	3.	10.	44.
01091	ZINC, SUSPENDED (UG/L ZN)	05/22/79-05/26/81	3	60.	280.	740.	40.	158800.	398.497	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	05/22/79-05/26/81	4	55.	225.	760.	30.	127366.667	356.885	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	03/06/78-11/14/90	7	25.	25.143	46.	7.	162.476	12.747	**	**	**	**
01103	TIN IN BOTTOM DEPOSITS (MG/KG AS SN DRY WGT)	11/14/90-11/14/90	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/06/78-05/26/81	6	25.	28.333	50.	0.	376.667	19.408	**	**	**	**
01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	11/14/90-11/14/90	1	15000.	15000.	15000.	15000.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	03/06/78-05/26/81	7	100.	102.429	140.	37.	1054.619	32.475	**	**	**	**
01131	LITHIUM, SUSPENDED (UG/L AS LI)	05/22/79-05/26/81	4	25.	45.	130.	0.	3766.667	61.373	**	**	**	**
01132	LITHIUM, TOTAL (UG/L AS LI)	05/22/79-05/26/81	4	105.	132.5	230.	90.	4425.	66.521	**	**	**	**
01133	LITHIUM IN BOTTOM DEPOSITS (MG/KG AS LI DRY WGT)	11/14/90-11/14/90	1	15.	15.	15.	15.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	03/06/78-11/14/90	11	6.	5.909	12.	0.	13.291	3.646	0.6	3.	7.	12.
01146	SELENIUM, SUSPENDED (UG/L AS SE)	05/22/79-05/26/81	4	0.	5.25	21.	0.	110.25	10.5	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	05/22/79-05/26/81	4	4.5	11.	33.	2.	216.667	14.72	**	**	**	**
01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	03/06/78-11/14/90	7	0.1	0.586	2.	0.	0.601	0.776	**	**	**	**
01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	11/14/90-11/14/90	1	600.	600.	600.	600.	0.	0.	**	**	**	**
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	11/14/90-11/14/90	1	8800.	8800.	8800.	8800.	0.	0.	**	**	**	**
01515	ALPHA, DISSOLVED GROSS, AS URANIUM-NATURAL, PC/L	05/22/79-05/26/81	4 ##	14.5	15.75	25.	9.	44.75	6.69	**	**	**	**
01516	ALPHA, SUSPEND GROSS, AS URANIUM NATURAL, PC/L	05/22/79-05/26/81	4	12.35	103.713	390.	0.15	36481.261	191.001	**	**	**	**
03515	BETA, DISSOLVED GROSS, AS CS-137, PC/L	05/22/79-05/26/81	4 ##	8.25	9.5	16.	5.5	20.833	4.564	**	**	**	**
03516	BETA, SUSPENDED GROSS, AS CS-137, PC/L	05/22/79-05/26/81	4	14.5	72.475	260.	0.9	15678.436	125.214	**	**	**	**
22707	URANIUM, NATURAL IN SEDIMENT (UG/G OF DRY SOLIDS)	11/14/90-11/14/90	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
28011	URANIUM,NATURAL,TOTAL UG/L AS U	03/27/90-11/14/90	3	7.8	7.7	8.4	6.9	0.57	0.755	**	**	**	**
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	12/27/77-07/27/81	24	160.	335.333	1400.	2.	150642.145	388.126	8.5	63.5	557.5	1070.
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	12/27/77-07/27/81	24	2.204	2.152	3.146	0.301	0.529	0.727	0.858	1.798	2.746	3.019
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			141.833								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	12/27/77-07/27/81	24	215.	754.375	5700.	40.	1574613.462	1254.836	51.	100.	790.	2450.
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	12/27/77-07/27/81	24	2.331	2.479	3.756	1.602	0.351	0.592	1.707	2.	2.898	3.385
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			301.565								
39251	PCNS IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	11/14/90-11/14/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/14/90-11/14/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	11/14/90-11/14/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	11/14/90-11/14/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/14/90-11/14/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/14/90-11/14/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/14/90-11/14/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	11/14/90-11/14/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39389	ENDOSULFAN IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/14/90-11/14/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/14/90-11/14/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	11/14/90-11/14/90	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	11/14/90-11/14/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	11/14/90-11/14/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	11/14/90-11/14/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/14/90-11/14/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39758	MIREX, BOTTOM MATERIAL (UG/KG DRY SOLIDS)	11/14/90-11/14/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
60050	ALGAE, TOTAL (CELLS/ML)	12/27/77-07/27/81	23	930.	2112.391	11000.	0.	9561204.249	3092.12	83.	270.	2600.	8520.
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/27/69-11/14/90	32	2630.	2623.438	4100.	0.	679707.157	824.444	1763.	2087.5	3277.5	3594.
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/27/69-02/23/88	28	2395.	2467.857	3600.	1500.	343150.794	585.791	1680.	1992.5	2997.5	3248.
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/27/69-07/27/81	28	307.	403.714	1450.	104.	79727.175	282.36	106.9	238.5	516.25	794.3
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/27/69-07/27/81	28	3.575	3.701	5.58	2.35	0.854	0.924	2.554	2.84	4.465	4.923
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	12/04/78-06/30/80	5	92.	93.2	98.	90.	13.2	3.633	**	**	**	**
70332	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .125MM	04/25/79-09/27/79	2	98.5	98.5	100.	97.	4.5	2.121	**	**	**	**
70333	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .250MM	09/27/79-09/27/79	1	99.	99.	99.	99.	0.	0.	**	**	**	**
70334	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM	09/27/79-09/27/79	1	100.	100.	100.	100.	0.	0.	**	**	**	**
70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	03/26/79-09/08/80	8	36.	35.375	49.	20.	73.411	8.568	**	**	**	**
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	03/26/79-09/08/80	8	44.5	45.375	64.	27.	128.554	11.338	**	**	**	**
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	03/26/79-09/08/80	8	68.	69.125	90.	49.	160.125	12.654	**	**	**	**
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	03/26/79-09/08/80	6	95.	81.333	97.	11.	1189.467	34.489	**	**	**	**

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Parameter Inventory for Station: HOVE0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	03/26/79-09/08/80	6	100.	98.167	100.	90.	16.167	4.021	**	**	**	**
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	04/14/80-09/08/80	4	100.	100.	100.	100.	0.	0.	**	**	**	**
70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	09/08/80-09/08/80	1	100.	100.	100.	100.	0.	0.	**	**	**	**
70950	BIOMASS-CHLOROPHYLL RATIO, PERIPHYTON (UNITS)	05/12/80-05/12/80	1	0.	0.	0.	0.	0.	0.	**	**	**	**
70957	CHLOROPHYLL-A,PERIPHYTON UG/L,CHROMO-FLUORO	03/06/78-05/12/80	3	0.05	0.05	0.1	0.	0.003	0.05	**	**	**	**
70958	CHLOROPHYLL-B,PERIPHYTON UG/L,CHROMO-FLUORO	03/06/78-05/12/80	3	0.	0.	0.	0.	0.	0.	**	**	**	**
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	04/25/79-10/27/80	13	0.06	0.173	1.6	0.	0.184	0.429	0.008	0.05	0.075	0.992
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	04/25/79-07/27/81	16	1.2	1.323	4.6	0.03	1.32	1.149	0.156	0.46	1.9	3.06
71887	NITROGEN, TOTAL, AS NO3 - MG/L	12/27/77-07/27/81	23	15.	18.096	62.	5.8	144.264	12.011	7.36	12.	21.	32.6
71890	MERCURY, DISSOLVED (UG/L AS HG)	03/06/78-11/14/90	11 ##	0.05	0.027	0.05	0.	0.001	0.026	0.	0.	0.05	0.05
71895	MERCURY, SUSPENDED (UG/L AS HG)	05/22/79-05/26/81	4	0.15	0.15	0.3	0.	0.017	0.129	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	05/22/79-05/26/81	4	0.15	0.15	0.3	0.	0.017	0.129	**	**	**	**
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	03/06/78-11/14/90	7	0.02	0.021	0.04	0.01	0.	0.011	**	**	**	**
72104	SAMPLE LOCATION, DISTANCE DOWNSTREAM (FEET)	01/23/95-01/23/95	1	10.	10.	10.	10.	0.	0.	**	**	**	**
72105	SAMPLE LOCATION, DISTANCE UPSTREAM (FEET)	10/27/94-08/23/95	11	80.	96.364	250.	10.	6085.455	78.009	12.	20.	150.	230.
75993	URANIUM,NATURAL,1 SIGMA PRC EST,TOTAL,WATER UG/L	03/27/90-11/14/90	3	1.9	1.933	2.3	1.6	0.123	0.351	**	**	**	**
80030	ALPHA,DISSOLVED GROSS,AS URANIUM-NATURAL,UG/L	05/22/79-05/26/81	4 ##	19.75	18.5	21.5	13.	15.167	3.894	**	**	**	**
80040	ALPHA,SUSPENDED GROSS, AS URANIUM-NATURAL, UG/L	05/22/79-05/26/81	4 ##	15.475	152.788	580.	0.2	81241.487	285.029	**	**	**	**
80050	BETA,DISSOLVED GROSS,AS SR-Y-90, PC/L	05/22/79-05/26/81	4 ##	8.25	9.	14.	5.5	13.167	3.629	**	**	**	**
80060	BETA,SUSPENDED GROSS,AS SR-Y-90, PC/L	05/22/79-05/26/81	4	14.	67.225	240.	0.9	13311.336	115.375	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	12/27/77-01/27/81	22	313.	1249.864	10200.	1.	5229764.028	2286.868	34.8	157.5	1252.5	3974.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	12/27/77-01/27/81	22	48.	396.462	3530.	0.06	687021.824	828.868	2.48	12.325	283.5	1434.
81886	PERTHANE IN SEDIMENT DRY WEIGHT UG/KG	11/14/90-11/14/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	01/27/81-07/27/81	3	4.	4.033	4.8	3.3	0.563	0.751	**	**	**	**
82170	GOLD IN SEDIMENT MG/KG	11/14/90-11/14/90	1 ##	4.	4.	4.	4.	0.	0.	**	**	**	**
82311	YTTERBIUMIN BOTTOM MATERIAL DRY WT. AS YB UG/KG	11/14/90-11/14/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
82313	THORIUM IN BOTTOM MATERIAL DRY WEIGHT AS TH UG/KG	11/14/90-11/14/90	1	2.2	2.2	2.2	2.2	0.	0.	**	**	**	**
82317	SCANDIUM, IN BOTTOM MATERIAL DRY WT AS SC UG/KG	11/14/90-11/14/90	1	2.	2.	2.	2.	0.	0.	**	**	**	**
82321	TANTALUM IN BOTTOM MATERIAL DRY WT. AS TA UG/KG	11/14/90-11/14/90	1 ##	20.	20.	20.	20.	0.	0.	**	**	**	**

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EPA Water Quality Criteria Analysis for Station: HOVE0044

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/15 Obs	7/01-10/15 Exceed	7/01-10/15 Prop.	10/16-12/31 Obs	10/16-12/31 Exceed	10/16-12/31 Prop.	1/01-3/15 Obs	1/01-3/15 Exceed	1/01-3/15 Prop.	3/16-6/30 Obs	3/16-6/30 Exceed	3/16-6/30 Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	5	4	0.80	1	0	0.00							4	4	1.00
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	31	0	0.00	6	0	0.00	7	0	0.00	6	0	0.00	12	0	0.00
00400	PH	Fresh Chronic	9.	134	1	0.01	43	0	0.00	26	1	0.04	27	0	0.00	38	0	0.00
		Other-Lo Lim.	6.5	134	0	0.00	43	0	0.00	26	0	0.00	27	0	0.00	38	0	0.00
00403	PH, LAB	Fresh Chronic	9.	109	0	0.00	40	0	0.00	20	0	0.00	21	0	0.00	28	0	0.00
		Other-Lo Lim.	6.5	109	0	0.00	40	0	0.00	20	0	0.00	21	0	0.00	28	0	0.00
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	1	0	0.00				1	0	0.00						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	24	0	0.00	3	0	0.00	5	0	0.00	6	0	0.00	10	0	0.00
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	37	0	0.00	13	0	0.00	7	0	0.00	5	0	0.00	12	0	0.00
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	133	0	0.00	42	0	0.00	25	0	0.00	26	0	0.00	40	0	0.00
		Drinking Water	250.	133	0	0.00	42	0	0.00	25	0	0.00	26	0	0.00	40	0	0.00
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	133	132	0.99	42	42	1.00	25	25	1.00	26	26	1.00	40	39	0.98
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	127	0	0.00	40	0	0.00	24	0	0.00	26	0	0.00	37	0	0.00
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	11	0	0.00	2	0	0.00	2	0	0.00	1	0	0.00	6	0	0.00
		Drinking Water	50.	11	0	0.00	2	0	0.00	2	0	0.00	1	0	0.00	6	0	0.00
01001	ARSENIC, SUSPENDED	Fresh Acute	360.	3	0	0.00	1	0	0.00							2	0	0.00
		Drinking Water	50.	3	0	0.00	1	0	0.00							2	0	0.00
01002	ARSENIC, TOTAL	Fresh Acute	360.	4	0	0.00	1	0	0.00							3	0	0.00
		Drinking Water	50.	4	0	0.00	1	0	0.00							3	0	0.00
01005	BARIUM, DISSOLVED	Drinking Water	2000.	7	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00	4	0	0.00
01006	BARIUM, SUSPENDED	Drinking Water	2000.	4	0	0.00	1	0	0.00							3	0	0.00
01007	BARIUM, TOTAL	Drinking Water	2000.	4	0	0.00	1	0	0.00							3	0	0.00
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	7	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00	4	0	0.00
		Drinking Water	4.	4 &	0	0.00	1	0	0.00							3	0	0.00

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

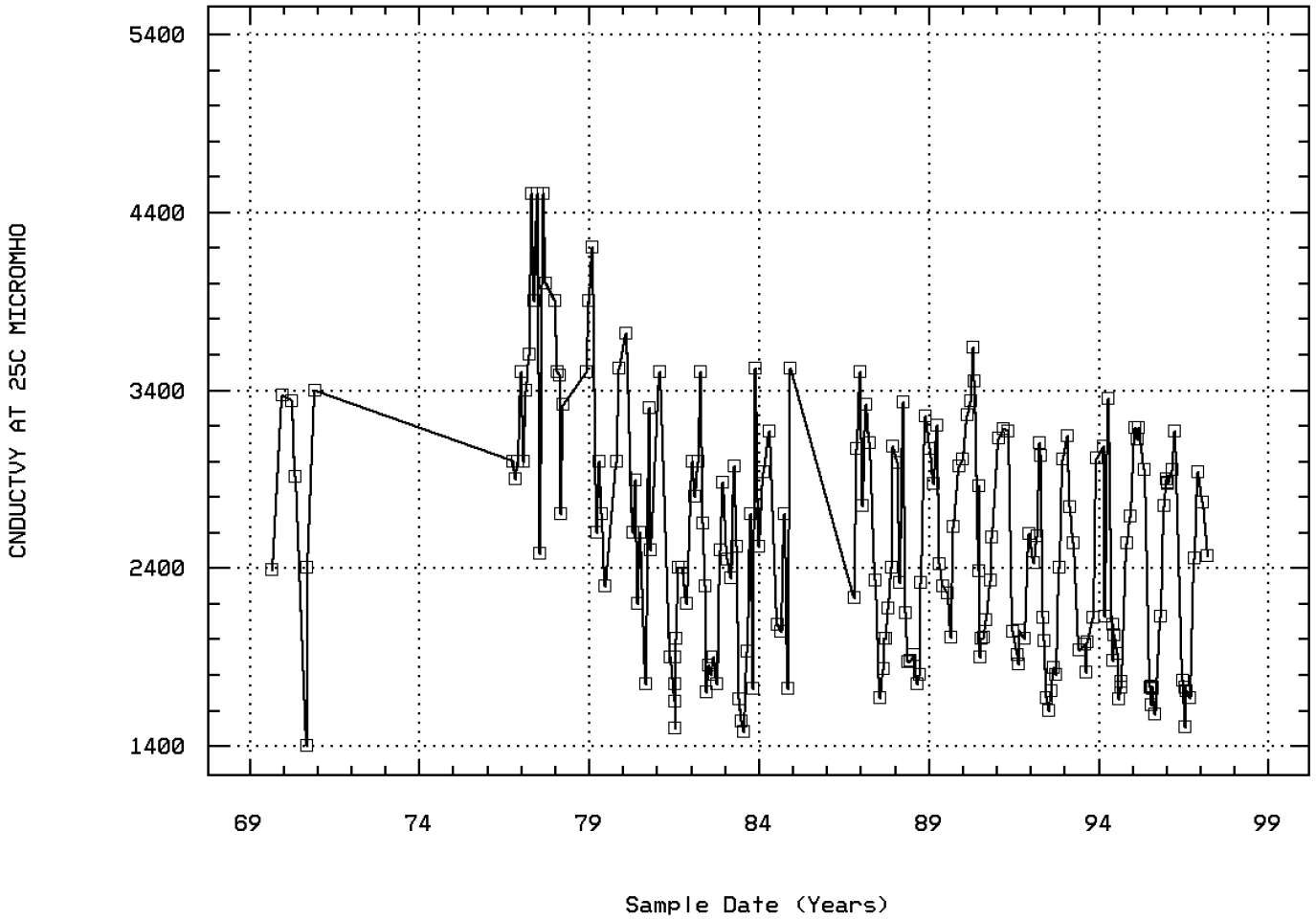
EPA Water Quality Criteria Analysis for Station: HOVE0044

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/15 Obs	7/01-10/15 Exceed	7/01-10/15 Prop.	10/16-12/31 Obs	10/16-12/31 Exceed	10/16-12/31 Prop.	1/01-3/15 Obs	1/01-3/15 Exceed	1/01-3/15 Prop.	3/16-6/30 Obs	3/16-6/30 Exceed	3/16-6/30 Prop.
01011	BERYLLIUM, SUSPENDED	Fresh Acute	130.	1	0	0.00										1	0	0.00
		Drinking Water	4.	1	0	0.00										1	0	0.00
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	4	0	0.00	1	0	0.00							3	0	0.00
		Drinking Water	4.	3 &	0	0.00	1	0	0.00							2	0	0.00
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	11	0	0.00	2	0	0.00	2	0	0.00	1	0	0.00	6	0	0.00
		Drinking Water	5.	11	0	0.00	2	0	0.00	2	0	0.00	1	0	0.00	6	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	4	0	0.00	1	0	0.00							3	0	0.00
		Drinking Water	5.	4	0	0.00	1	0	0.00							3	0	0.00
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	11	0	0.00	2	0	0.00	2	0	0.00	1	0	0.00	6	0	0.00
01031	CHROMIUM, SUSPENDED	Drinking Water	100.	4	0	0.00	1	0	0.00							3	0	0.00
01034	CHROMIUM, TOTAL	Drinking Water	100.	4	0	0.00	1	0	0.00							3	0	0.00
01040	COPPER, DISSOLVED	Fresh Acute	18.	11	0	0.00	2	0	0.00	2	0	0.00	1	0	0.00	6	0	0.00
		Drinking Water	1300.	11	0	0.00	2	0	0.00	2	0	0.00	1	0	0.00	6	0	0.00
01049	LEAD, DISSOLVED	Fresh Acute	82.	11	0	0.00	2	0	0.00	2	0	0.00	1	0	0.00	6	0	0.00
		Drinking Water	15.	11	0	0.00	2	0	0.00	2	0	0.00	1	0	0.00	6	0	0.00
01050	LEAD, SUSPENDED	Fresh Acute	82.	1	1	1.00										1	1	1.00
		Drinking Water	15.	1	1	1.00										1	1	1.00
01051	LEAD, TOTAL	Fresh Acute	82.	4	1	0.25	1	0	0.00							3	1	0.33
		Drinking Water	15.	4	1	0.25	1	0	0.00							3	1	0.33
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	7	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00	4	0	0.00
		Drinking Water	100.	7	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00	4	0	0.00
01066	NICKEL, SUSPENDED	Fresh Acute	1400.	4	0	0.00	1	0	0.00							3	0	0.00
		Drinking Water	100.	4	1	0.25	1	0	0.00							3	1	0.33
01067	NICKEL, TOTAL	Fresh Acute	1400.	4	0	0.00	1	0	0.00							3	0	0.00
		Drinking Water	100.	4	1	0.25	1	0	0.00							3	1	0.33
01090	ZINC, DISSOLVED	Fresh Acute	120.	11	0	0.00	2	0	0.00	2	0	0.00	1	0	0.00	6	0	0.00
		Drinking Water	5000.	11	0	0.00	2	0	0.00	2	0	0.00	1	0	0.00	6	0	0.00
01091	ZINC, SUSPENDED	Fresh Acute	120.	3	1	0.33										3	1	0.33
		Drinking Water	5000.	3	0	0.00										3	0	0.00
01092	ZINC, TOTAL	Fresh Acute	120.	4	1	0.25	1	0	0.00							3	1	0.33
		Drinking Water	5000.	4	0	0.00	1	0	0.00							3	0	0.00
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	11	0	0.00	2	0	0.00	2	0	0.00	1	0	0.00	6	0	0.00
		Drinking Water	50.	11	0	0.00	2	0	0.00	2	0	0.00	1	0	0.00	6	0	0.00
01146	SELENIUM, SUSPENDED	Fresh Acute	20.	4	1	0.25	1	0	0.00							3	1	0.33
		Drinking Water	50.	4	0	0.00	1	0	0.00							3	0	0.00
01147	SELENIUM, TOTAL	Fresh Acute	20.	4	1	0.25	1	0	0.00							3	1	0.33
		Drinking Water	50.	4	0	0.00	1	0	0.00							3	0	0.00
28011	URANIUM, NATURAL, TOTAL	Drinking Water	20.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
31625	FECAL COLIFORM, MF	Other-Hi Lim.	200.	23 &	9	0.39	3	2	0.67	5	2	0.40	6	2	0.33	9	3	0.33
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	11	0	0.00	2	0	0.00	2	0	0.00	1	0	0.00	6	0	0.00
		Drinking Water	2.	11	0	0.00	2	0	0.00	2	0	0.00	1	0	0.00	6	0	0.00
71895	MERCURY, SUSPENDED	Fresh Acute	2.4	4	0	0.00	1	0	0.00							3	0	0.00
		Drinking Water	2.	4	0	0.00	1	0	0.00							3	0	0.00
71900	MERCURY, TOTAL	Fresh Acute	2.4	4	0	0.00	1	0	0.00							3	0	0.00
		Drinking Water	2.	4	0	0.00	1	0	0.00							3	0	0.00

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

Station: HOVE0044 Parameter Code: 00095

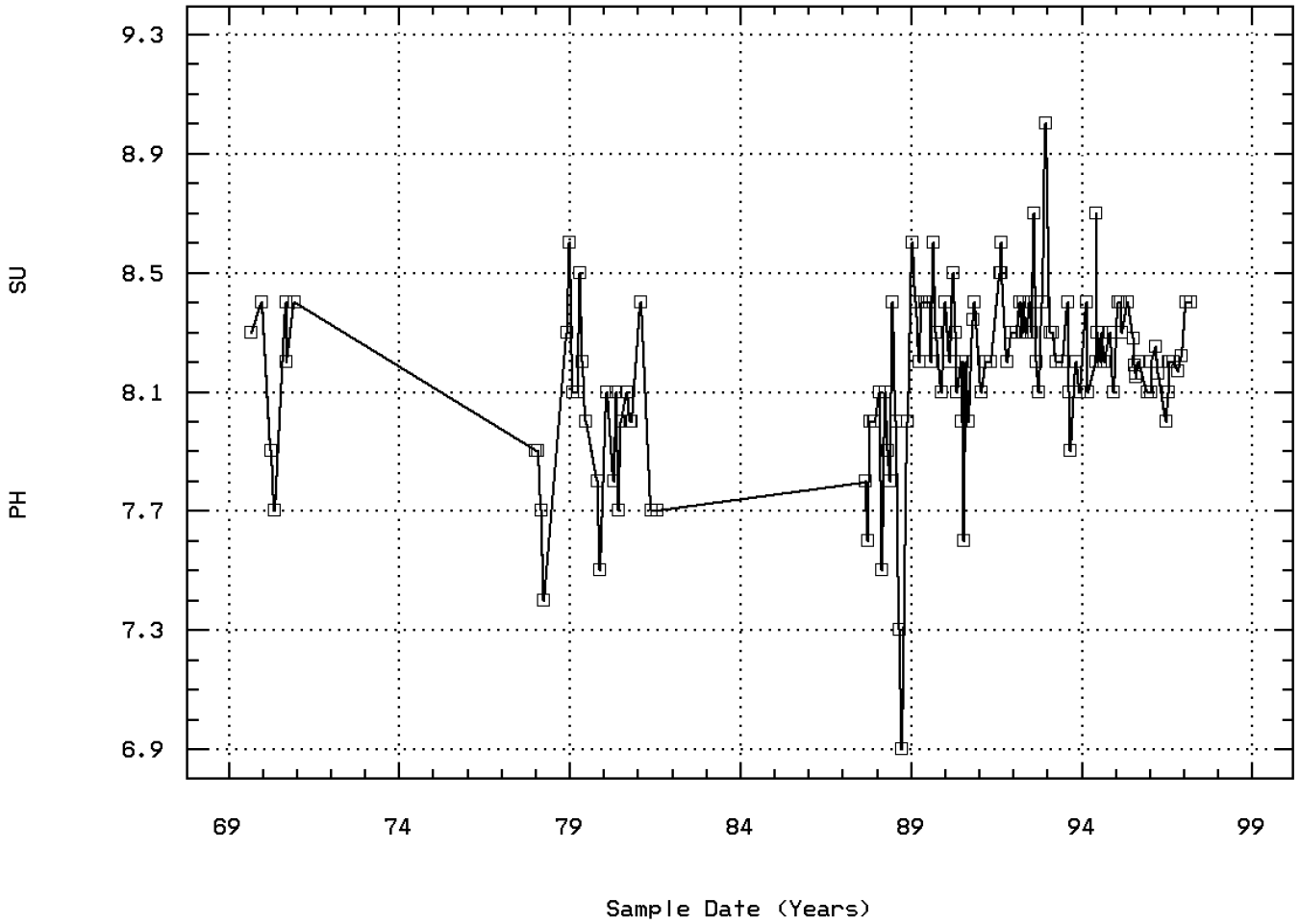
SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)



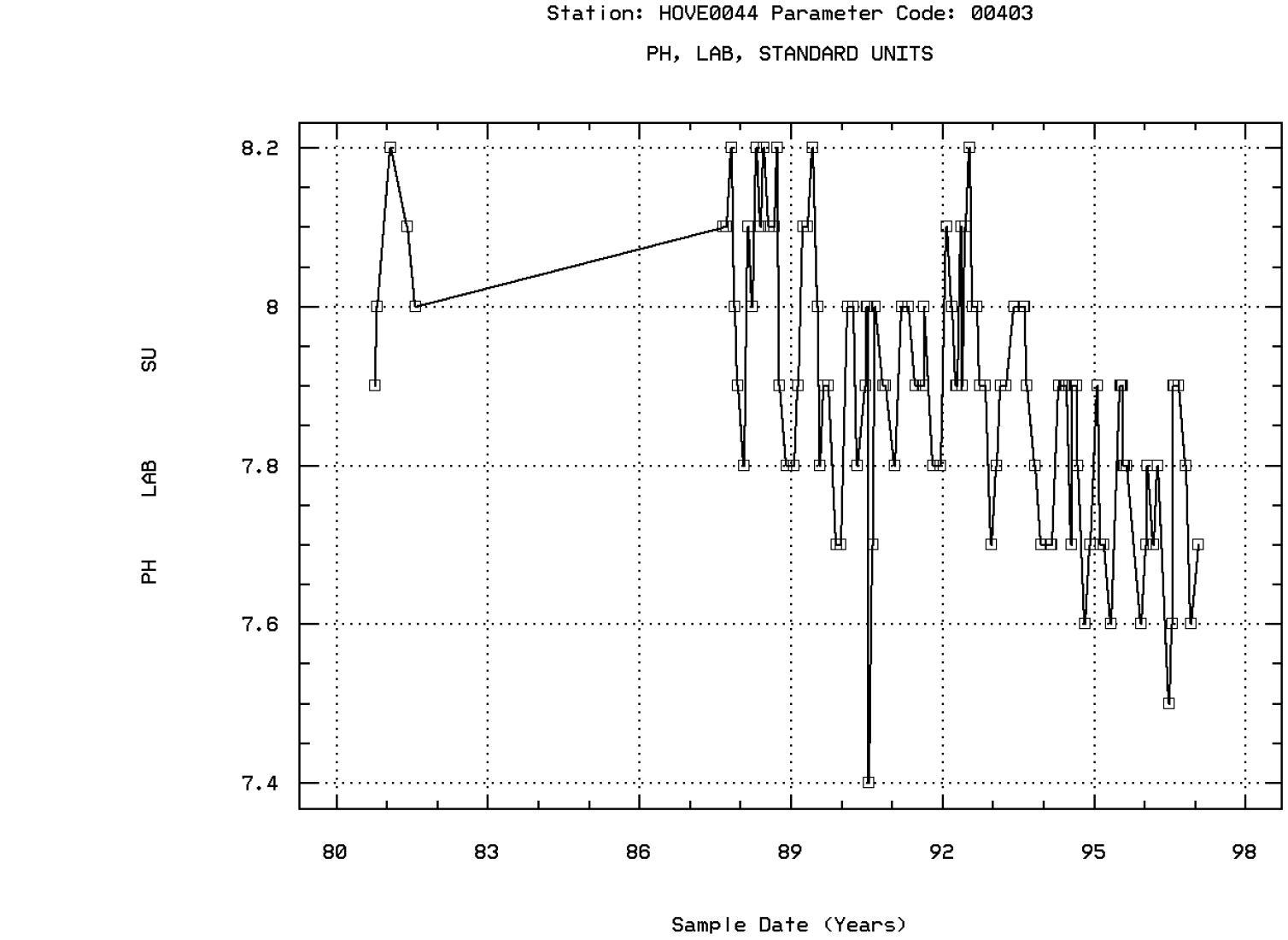
MCELMO CREEK NEAR COLORADO-UTAH STATE L

Station: HOVE0044 Parameter Code: 00400

PH (STANDARD UNITS)



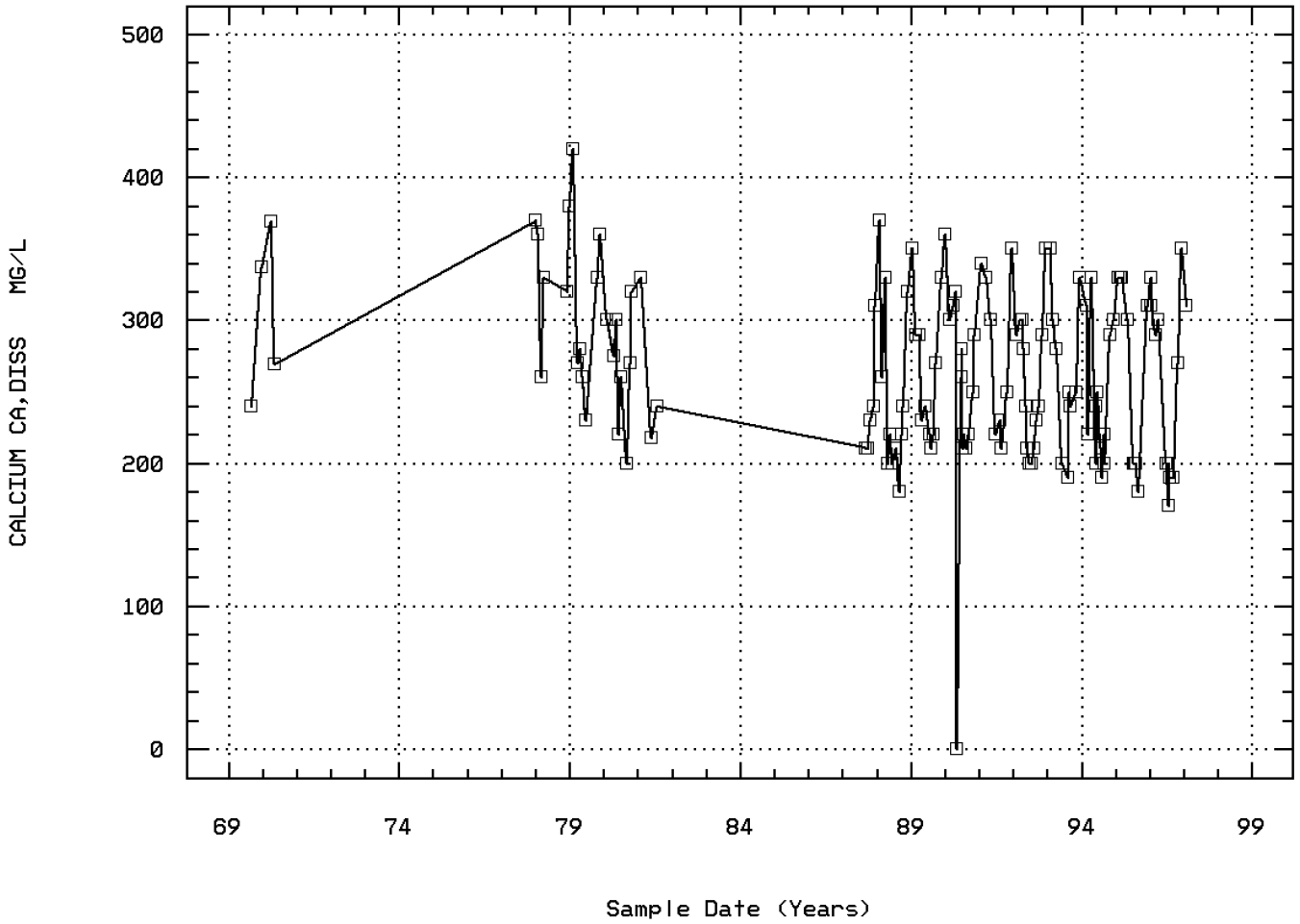
MCELMO CREEK NEAR COLORADO-UTAH STATE L



MCELMO CREEK NEAR COLORADO-UTAH STATE L

Station: HOVE0044 Parameter Code: 00915

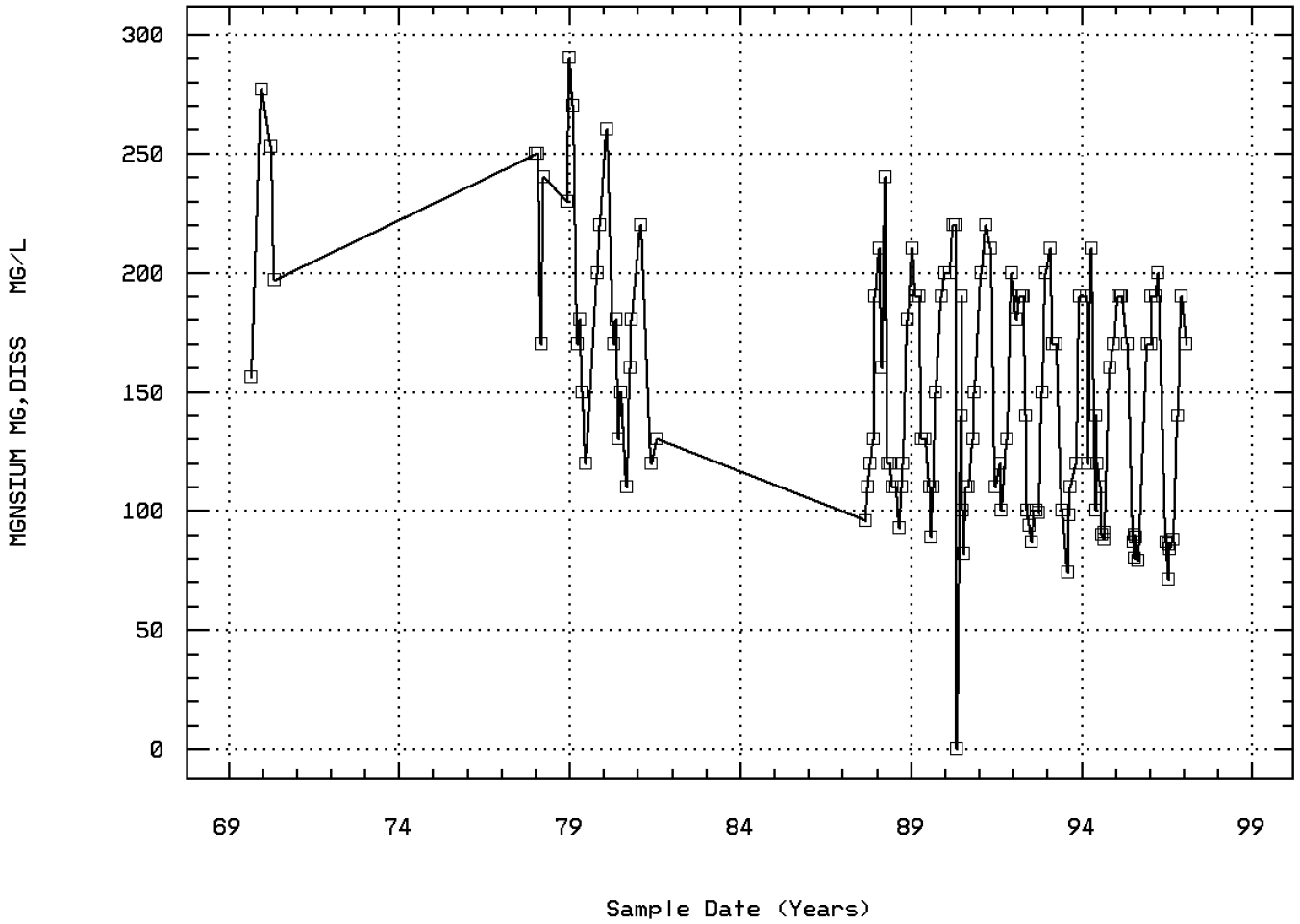
CALCIUM, DISSOLVED (MG/L AS CA)



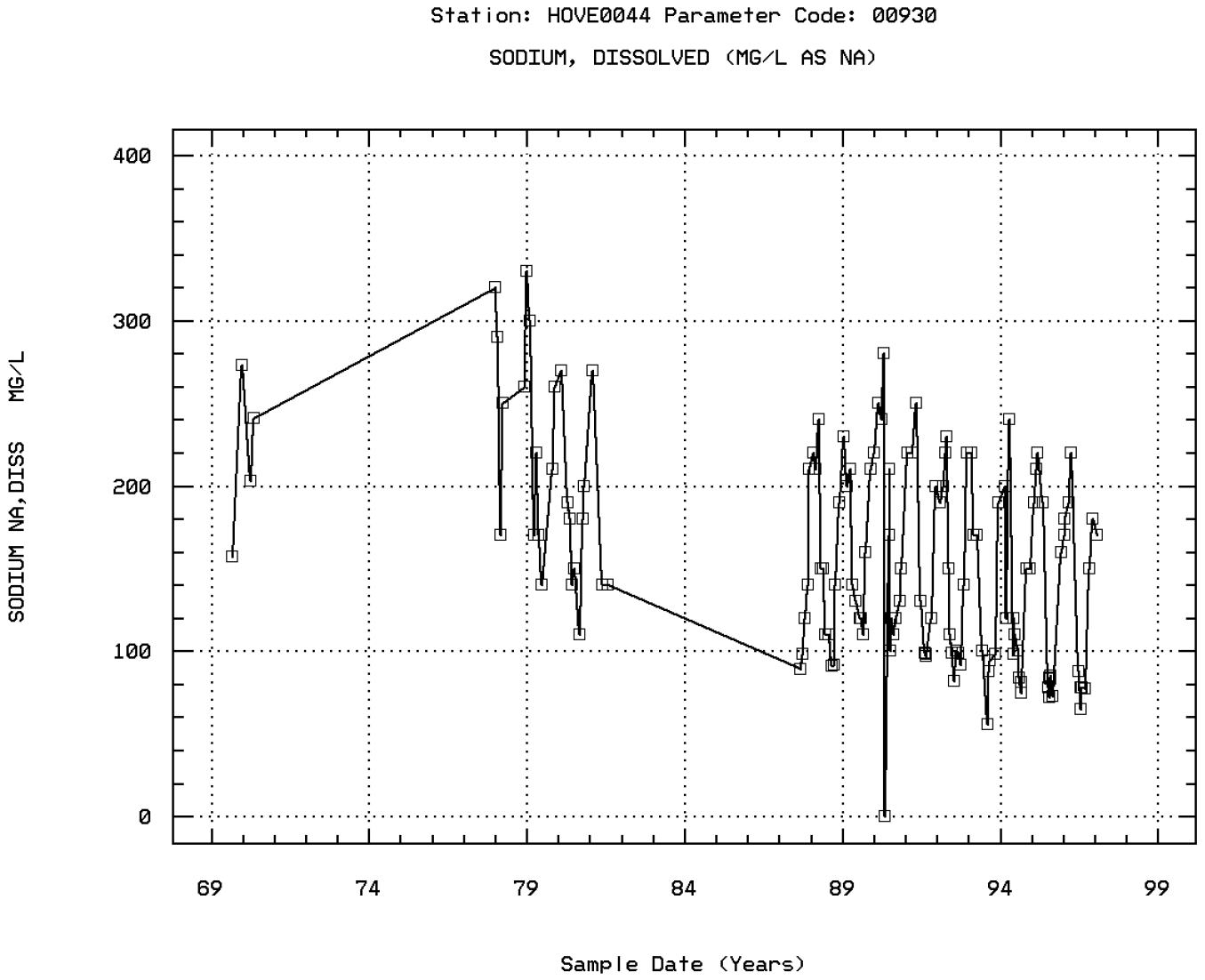
MCELMO CREEK NEAR COLORADO-UTAH STATE L

Station: HOVE0044 Parameter Code: 00925

MAGNESIUM, DISSOLVED (MG/L AS MG)



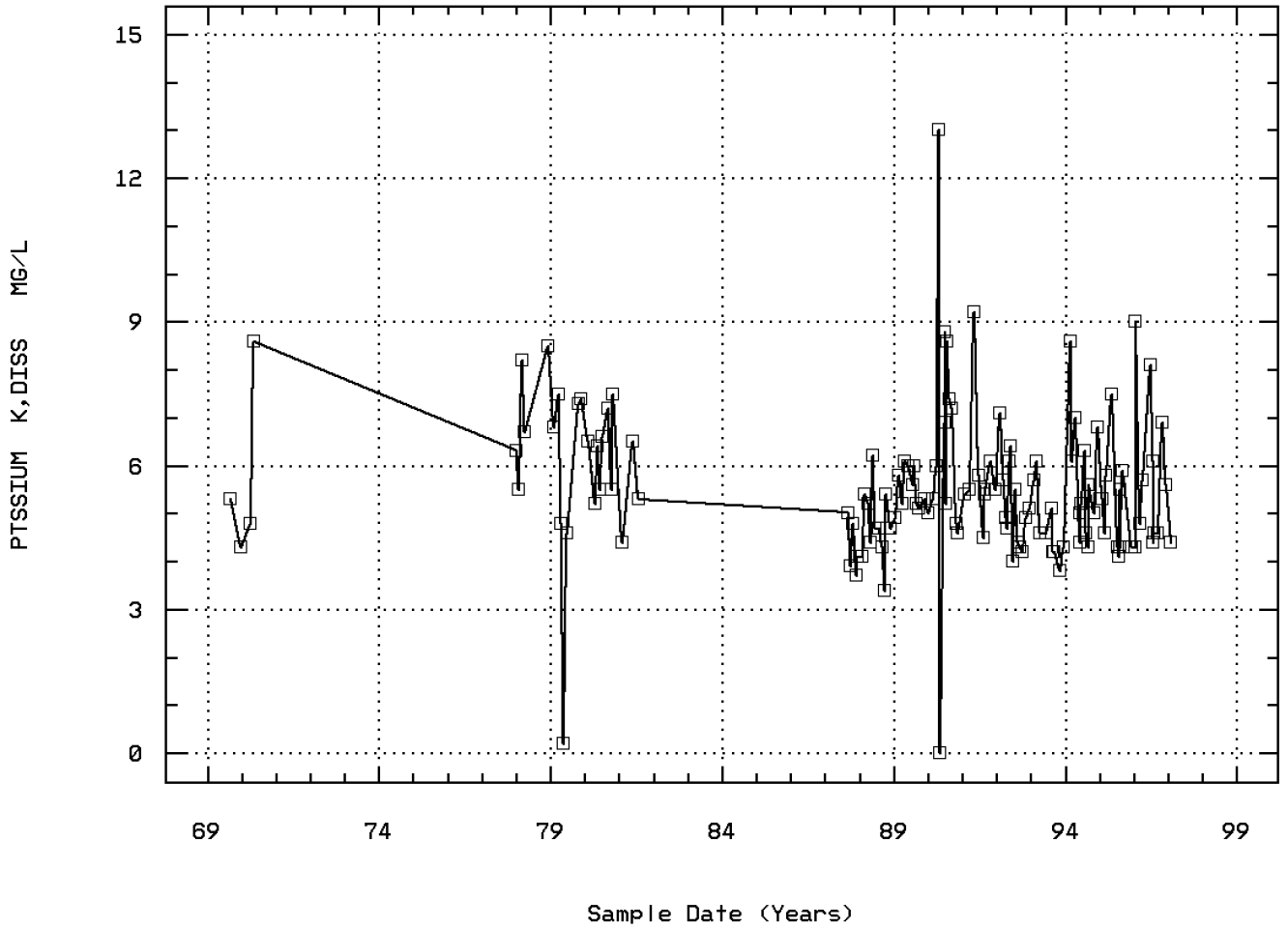
MCELMO CREEK NEAR COLORADO-UTAH STATE L



MCELMO CREEK NEAR COLORADO-UTAH STATE L

Station: HOVE0044 Parameter Code: 00935

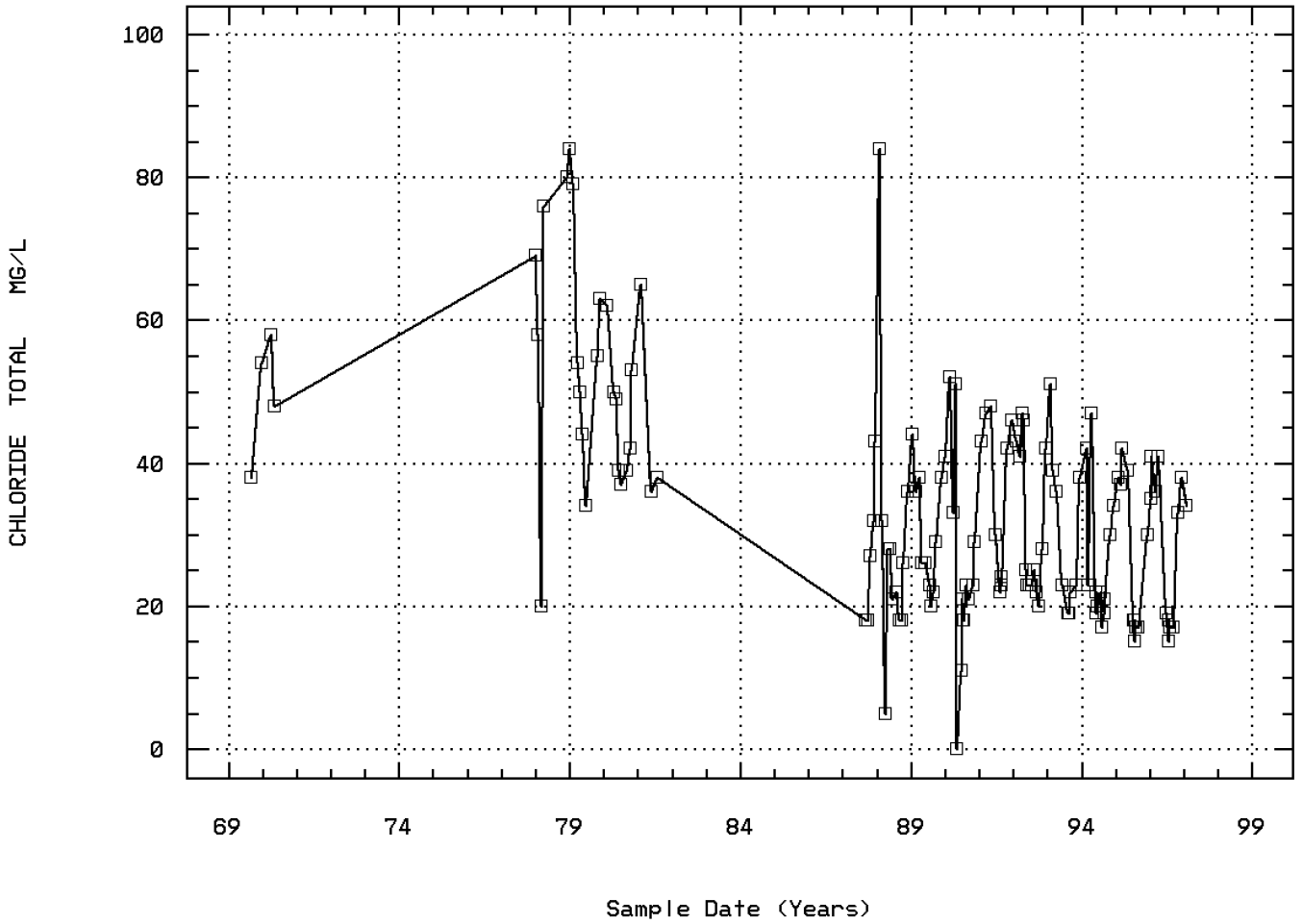
POTASSIUM, DISSOLVED (MG/L AS K)



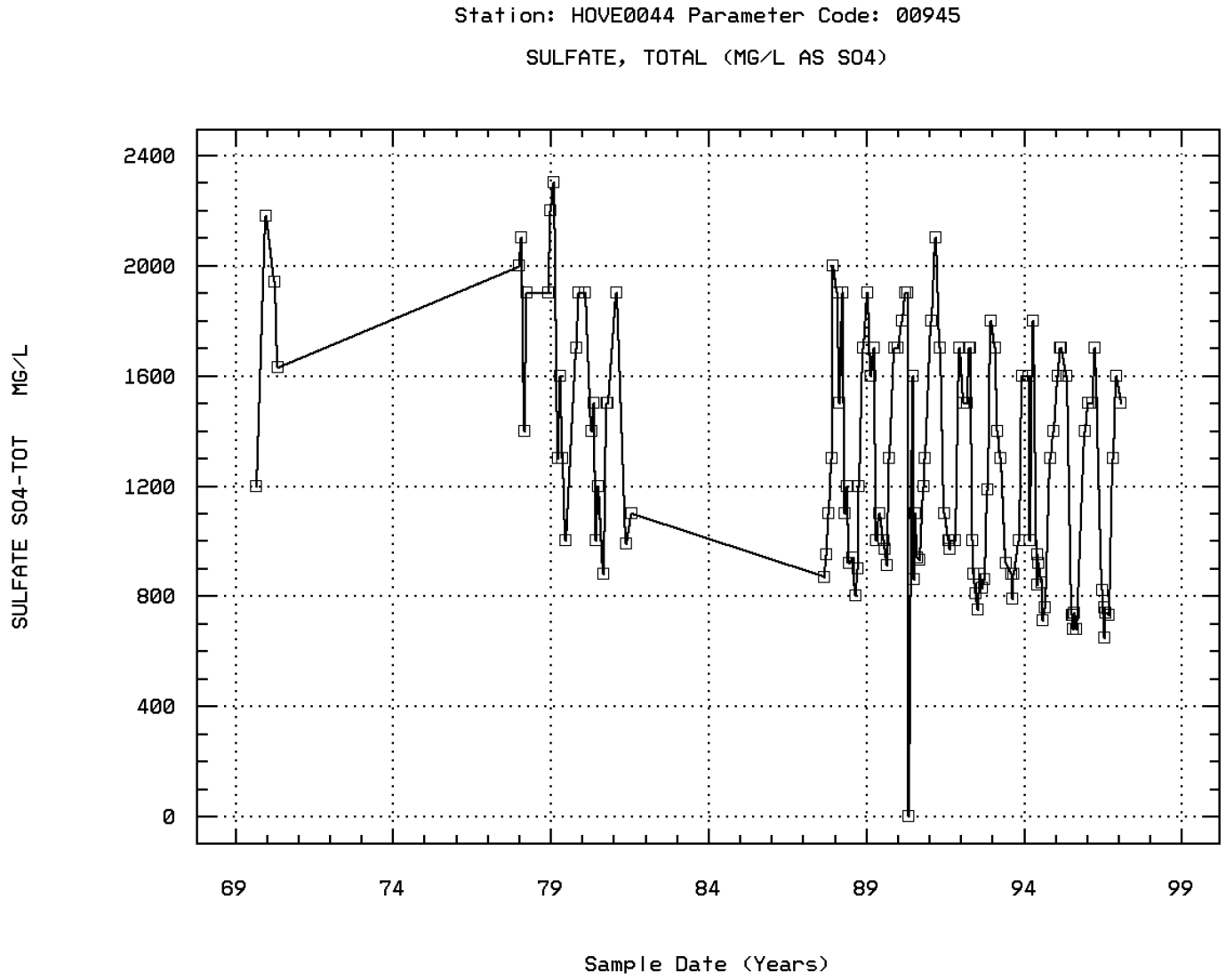
MCELMO CREEK NEAR COLORADO-UTAH STATE L

Station: HOVE0044 Parameter Code: 00940

CHLORIDE,TOTAL IN WATER



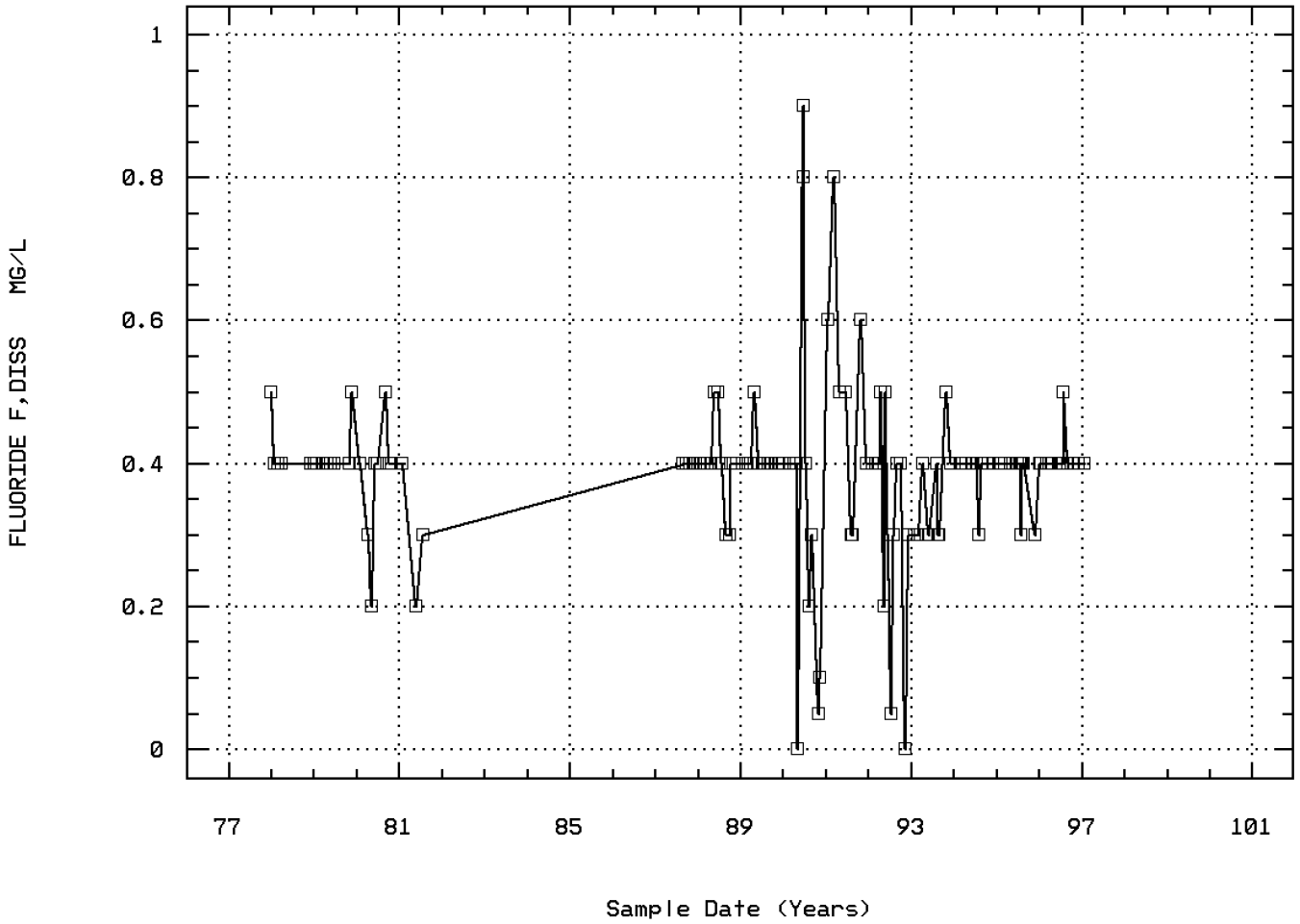
MCELMO CREEK NEAR COLORADO-UTAH STATE L



MCELMO CREEK NEAR COLORADO-UTAH STATE L

Station: HOVE0044 Parameter Code: 00950

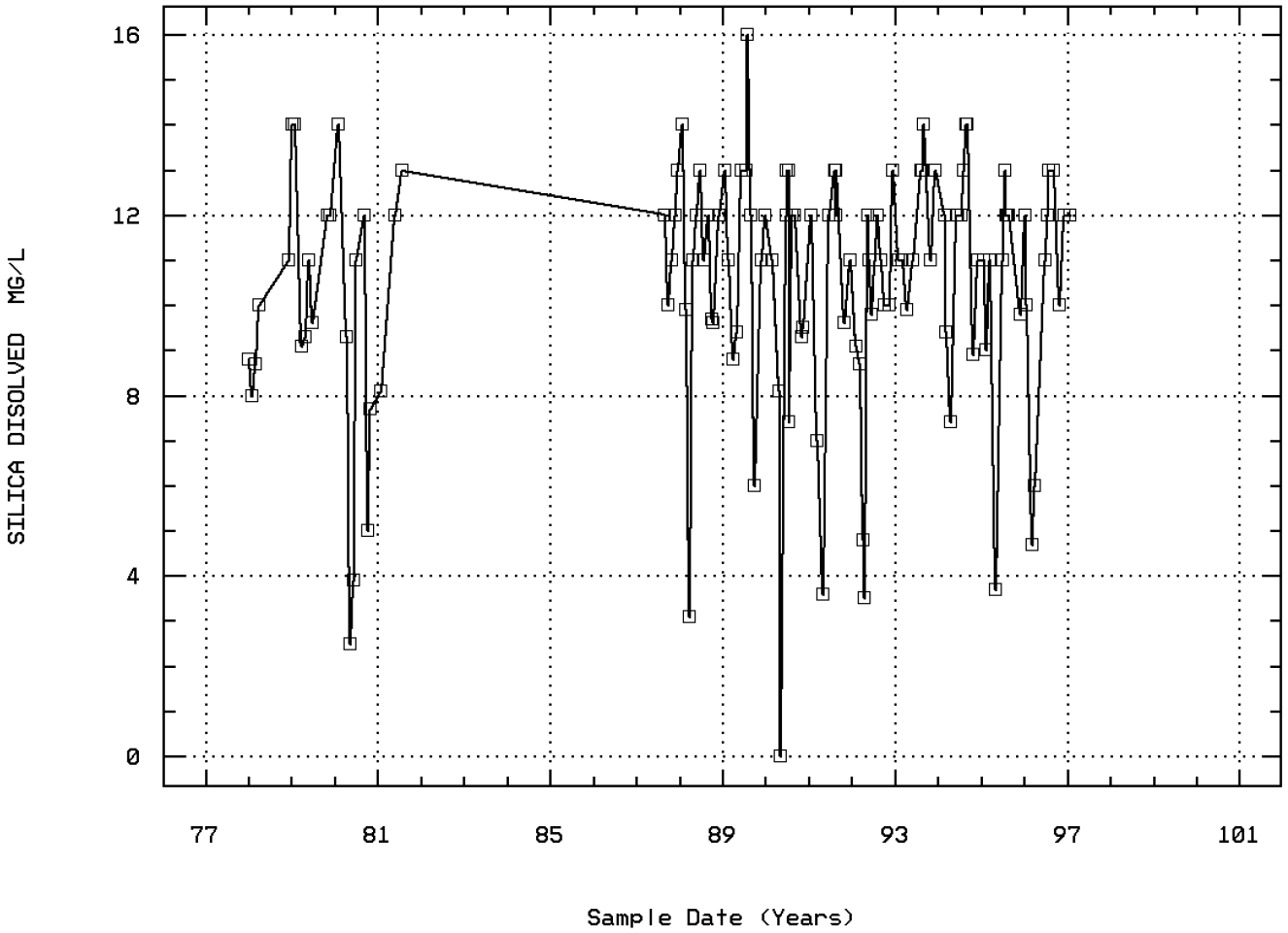
FLUORIDE, DISSOLVED (MG/L AS F)



MCELMO CREEK NEAR COLORADO-UTAH STATE L

Station: HOVE0044 Parameter Code: 00955

SILICA, DISSOLVED (MG/L AS SI02)



MCELMO CREEK NEAR COLORADO-UTAH STATE L

Annual Analysis for 1960 - Station HOVE0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/60-03/10/97	7	21.	16.	24.	2.	98.917	9.946	**	**	**	**

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

Annual Analysis for 1961 - Station HOVE0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/60-03/10/97	11	15.5	14.227	28.	0.	60.518	7.779	1.	8.	19.	26.4

** - 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 1962 - Station HOVE0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/60-03/10/97	9	14.5	15.167	24.5	4.5	45.313	6.731	4.5	9.25	21.5	24.5

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

Annual Analysis for 1963 - Station HOVE0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/60-03/10/97	5	18.5	17.3	26.5	10.	45.075	6.714	**	**	**	**

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

Annual Analysis for 1964 - Station HOVE0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/60-03/10/97	5	15.5	13.7	23.	3.	63.575	7.973	**	**	**	**

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

Annual Analysis for 1965 - Station HOVE0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/60-03/10/97	11	12.	11.909	19.5	1.5	41.691	6.457	1.8	5.	18.	19.3

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

Annual Analysis for 1966 - Station HOVE0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/60-03/10/97	9	15.	15.111	25.	5.5	45.799	6.767	5.5	8.5	20.5	25.

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

Annual Analysis for 1967 - Station HOVE0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/60-03/10/97	12	16.75	16.375	24.5	5.5	41.097	6.411	6.4	11.625	21.875	24.2

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

Annual Analysis for 1968 - Station HOVE0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/60-03/10/97	15	13.	10.8	20.	0.	52.171	7.223	0.	2.	18.	18.8

** - 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 1969 - Station HOVE0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/60-03/10/97	15	10.	11.933	28.	1.	88.638	9.415	1.	5.	19.	26.8
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/27/69-03/10/97	2	2880.	2880.	3370.	2390.	480200.	692.965	**	**	**	**
00400p	PH (STANDARD UNITS)	08/27/69-03/10/97	2	8.35	8.35	8.4	8.3	0.005	0.071	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	08/27/69-03/10/97	2	8.347	8.347	8.4	8.3	0.005	0.071	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/27/69-03/10/97	2	0.004	0.004	0.005	0.004	0.	0.001	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/27/69-01/24/97	2	288.5	288.5	337.	240.	4704.5	68.589	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/27/69-01/24/97	2	216.5	216.5	277.	156.	7320.5	85.56	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	08/27/69-01/24/97	2	215.	215.	273.	157.	6728.	82.024	**	**	**	**
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	08/27/69-01/24/97	2	4.8	4.8	5.3	4.3	0.5	0.707	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	08/27/69-01/24/97	2	46.	46.	54.	38.	128.	11.314	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/27/69-01/24/97	2	1690.	1690.	2180.	1200.	480200.	692.965	**	**	**	**

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

Annual Analysis for 1970 - Station HOVE0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/60-03/10/97	18	13.	10.889	22.	0.	60.81	7.798	0.	3.5	17.5	22.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/27/69-03/10/97	5	2910.	2690.	3400.	1400.	680800.	825.106	**	**	**	**
00400p	PH (STANDARD UNITS)	08/27/69-03/10/97	5	8.2	8.12	8.4	7.7	0.097	0.311	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	08/27/69-03/10/97	5	8.2	8.029	8.4	7.7	0.107	0.328	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/27/69-03/10/97	5	0.006	0.009	0.02	0.004	0.	0.007	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/27/69-01/24/97	2	319.	319.	369.	269.	5000.	70.711	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/27/69-01/24/97	2	225.	225.	253.	197.	1568.	39.598	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	08/27/69-01/24/97	2	222.	222.	241.	203.	722.	26.87	**	**	**	**
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	08/27/69-01/24/97	2	6.7	6.7	8.6	4.8	7.22	2.687	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	08/27/69-01/24/97	2	53.	53.	58.	48.	50.	7.071	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/27/69-01/24/97	2	1785.	1785.	1940.	1630.	48050.	219.203	**	**	**	**

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

Annual Analysis for 1971 - Station HOVE0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/60-03/10/97	13	12.	11.231	22.	0.	57.526	7.585	0.8	2.5	18.5	21.2

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

Annual Analysis for 1972 - Station HOVE0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/60-03/10/97	11	12.	12.273	26.	0.	94.818	9.737	0.2	3.	22.	25.6

** - 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 1973 - Station HOVE0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/60-03/10/97	9	8.	10.556	20.	1.	66.028	8.126	1.	2.5	19.	20.

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

Annual Analysis for 1976 - Station HOVE0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/60-03/10/97	4	5.5	6.5	15.	0.	59.	7.681	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/27/69-03/10/97	4	3000.	3100.	3500.	2900.	73333.333	270.801	**	**	**	**

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

Annual Analysis for 1977 - Station HOVE0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/60-03/10/97	10	15.5	14.3	27.	0.	118.678	10.894	0.1	2.5	24.75	27.
00061	FLOW, STREAM, INSTANTANEOUS CFS	12/27/77-03/10/97	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/27/69-03/10/97	10	3900.	3778.	4500.	2480.	456395.556	675.571	2532.	3300.	4500.	4500.
00400p	PH (STANDARD UNITS)	08/27/69-03/10/97	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	08/27/69-03/10/97	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/27/69-03/10/97	1	0.013	0.013	0.013	0.013	0.	0.	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/27/69-01/24/97	1	370.	370.	370.	370.	0.	0.	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/27/69-01/24/97	1	250.	250.	250.	250.	0.	0.	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	08/27/69-01/24/97	1	320.	320.	320.	320.	0.	0.	**	**	**	**
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	08/27/69-01/24/97	1	6.3	6.3	6.3	6.3	0.	0.	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	08/27/69-01/24/97	1	69.	69.	69.	69.	0.	0.	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/27/69-01/24/97	1	2000.	2000.	2000.	2000.	0.	0.	**	**	**	**
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	12/27/77-01/24/97	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00955p	SILICA, DISSOLVED (MG/L AS SI02)	12/27/77-01/24/97	1	8.8	8.8	8.8	8.8	0.	0.	**	**	**	**

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Annual Analysis for 1978 - Station HOVE0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/60-03/10/97	4	6.	6.25	13.	0.	28.917	5.377	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	12/27/77-03/10/97	4	36.5	55.75	139.	11.	3312.917	57.558	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/27/69-03/10/97	5	3480.	3300.	3500.	2700.	118200.	343.802	**	**	**	**
00400p	PH (STANDARD UNITS)	08/27/69-03/10/97	4	7.8	7.825	8.3	7.4	0.143	0.377	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	08/27/69-03/10/97	4	7.789	7.714	8.3	7.4	0.159	0.399	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/27/69-03/10/97	4	0.016	0.019	0.04	0.005	0.	0.015	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/27/69-01/24/97	4	325.	317.5	360.	260.	1758.333	41.932	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/27/69-01/24/97	4	235.	222.5	250.	170.	1291.667	35.94	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	08/27/69-01/24/97	4	255.	242.5	290.	170.	2625.	51.235	**	**	**	**

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Annual Analysis for 1978 - Station HOVE0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	08/27/69-01/24/97	4	7.45	7.225	8.5	5.5	1.942	1.394	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	08/27/69-01/24/97	4	67.	58.5	80.	20.	750.333	27.392	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/27/69-01/24/97	4	1900.	1825.	2100.	1400.	89166.667	298.608	**	**	**	**
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	12/27/77-01/24/97	4	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00955p	SILICA, DISSOLVED (MG/L AS SI02)	12/27/77-01/24/97	4	9.35	9.425	11.	8.	1.789	1.338	**	**	**	**

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Annual Analysis for 1979 - Station HOVE0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/60-03/10/97	8	8.	9.	20.	0.	62.	7.874	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	12/27/77-03/10/97	9	48.	74.333	226.	24.	4281.75	65.435	24.	30.	103.5	226.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/27/69-03/10/97	8	3000.	3152.5	4200.	2300.	439192.857	662.716	**	**	**	**
00400p	PH (STANDARD UNITS)	08/27/69-03/10/97	8	8.1	8.1	8.6	7.5	0.126	0.355	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	08/27/69-03/10/97	8	8.1	7.972	8.6	7.5	0.144	0.38	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/27/69-03/10/97	8	0.008	0.011	0.032	0.003	0.	0.009	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/27/69-01/24/97	8	305.	316.25	420.	230.	4426.786	66.534	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/27/69-01/24/97	8	190.	200.	290.	120.	3371.429	58.064	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	08/27/69-01/24/97	8	215.	225.	330.	140.	4485.714	66.975	**	**	**	**
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	08/27/69-01/24/97	7	6.8	5.514	7.5	0.2	6.988	2.644	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	08/27/69-01/24/97	8	54.5	57.875	84.	34.	286.125	16.915	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/27/69-01/24/97	8	1650.	1662.5	2300.	1000.	208392.857	456.501	**	**	**	**
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	12/27/77-01/24/97	8	0.4	0.413	0.5	0.4	0.001	0.035	**	**	**	**
00955p	SILICA, DISSOLVED (MG/L AS SI02)	12/27/77-01/24/97	8	11.5	11.375	14.	9.1	3.905	1.976	**	**	**	**

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Annual Analysis for 1980 - Station HOVE0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/60-03/10/97	8	10.	12.375	25.	4.	46.554	6.823	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	12/27/77-03/10/97	8	53.	66.	118.	34.	862.571	29.37	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/27/69-03/10/97	8	2600.	2695.	3720.	1750.	378400.	615.142	**	**	**	**
00400p	PH (STANDARD UNITS)	08/27/69-03/10/97	8	8.	7.975	8.1	7.7	0.022	0.149	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	08/27/69-03/10/97	8	8.	7.951	8.1	7.7	0.023	0.151	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/27/69-03/10/97	8	0.01	0.011	0.02	0.008	0.	0.004	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	10/07/80-01/24/97	2	7.95	7.95	8.	7.9	0.005	0.071	**	**	**	**
00403p	CONVERTED PH, LAB, STANDARD UNITS	10/07/80-01/24/97	2	7.947	7.947	8.	7.9	0.005	0.071	**	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/07/80-01/24/97	2	0.011	0.011	0.013	0.01	0.	0.002	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/27/69-01/24/97	8	272.5	268.125	320.	200.	1685.268	41.052	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/27/69-01/24/97	8	165.	167.5	260.	110.	1992.857	44.641	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	08/27/69-01/24/97	8	180.	177.5	270.	110.	2278.571	47.734	**	**	**	**
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	08/27/69-01/24/97	8	6.45	6.3	7.5	5.2	0.697	0.835	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	08/27/69-01/24/97	8	45.5	46.375	62.	37.	74.839	8.651	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/27/69-01/24/97	8	1450.	1360.	1900.	880.	105371.429	324.61	**	**	**	**
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	12/27/77-01/24/97	8	0.4	0.375	0.5	0.2	0.008	0.089	**	**	**	**
00955p	SILICA, DISSOLVED (MG/L AS SI02)	12/27/77-01/24/97	8	8.5	8.175	14.	2.5	16.942	4.116	**	**	**	**

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Annual Analysis for 1981 - Station HOVE0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/60-03/10/97	10	18.	16.3	23.	0.	51.122	7.15	0.9	13.5	22.	22.9
00061	FLOW, STREAM, INSTANTANEOUS CFS	12/27/77-03/10/97	7	98.	197.143	689.	27.	56813.476	238.356	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/27/69-03/10/97	10	1950.	2120.	3500.	1500.	324555.556	569.698	1515.	1725.	2400.	3390.
00400p	PH (STANDARD UNITS)	08/27/69-03/10/97	3	7.7	7.933	8.4	7.7	0.163	0.404	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	08/27/69-03/10/97	3	7.7	7.835	8.4	7.7	0.178	0.422	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/27/69-03/10/97	3	0.02	0.015	0.02	0.004	0.	0.009	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	10/07/80-01/24/97	3	8.1	8.1	8.2	8.	0.01	0.1	**	**	**	**
00403p	CONVERTED PH, LAB, STANDARD UNITS	10/07/80-01/24/97	3	8.1	8.092	8.2	8.	0.01	0.1	**	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/07/80-01/24/97	3	0.008	0.008	0.01	0.006	0.	0.002	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/27/69-01/24/97	3	240.	262.667	330.	218.	3521.333	59.341	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/27/69-01/24/97	3	130.	156.667	220.	120.	3033.333	55.076	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	08/27/69-01/24/97	3	140.	183.333	270.	140.	5633.333	75.056	**	**	**	**
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	08/27/69-01/24/97	3	5.3	5.4	6.5	4.4	1.11	1.054	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	08/27/69-01/24/97	3	38.	46.333	65.	36.	262.333	16.197	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/27/69-01/24/97	3	1100.	1330.	1900.	990.	246700.	496.689	**	**	**	**
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	12/27/77-01/24/97	3	0.3	0.3	0.4	0.2	0.01	0.1	**	**	**	**
00955p	SILICA, DISSOLVED (MG/L AS SI02)	12/27/77-01/24/97	3	12.	11.033	13.	8.1	6.703	2.589	**	**	**	**

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Annual Analysis for 1982 - Station HOVE0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/60-03/10/97	13	15.5	12.077	20.5	0.	61.952	7.871	0.8	3.	19.5	20.3
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/27/69-03/10/97	13	2500.	2433.077	3500.	1700.	351139.744	592.57	1720.	1825.	2940.	3300.

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

Annual Analysis for 1983 - Station HOVE0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/60-03/10/97	11	13.	11.909	21.	0.5	50.341	7.095	0.6	7.	18.	21.
00061	FLOW, STREAM, INSTANTANEOUS CFS	12/27/77-03/10/97	3	58.	51.667	59.	38.	140.333	11.846	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/27/69-03/10/97	11	2340.	2257.273	3520.	1480.	428261.818	654.417	1492.	1660.	2700.	3410.

** - Less than 9 observations ## - Computed with 50% or 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 HOVE0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/60-03/10/97	10	13.5	11.5	21.5	0.5	56.722	7.531	0.65	2.75	17.25	21.45
00061	FLOW, STREAM, INSTANTANEOUS CFS	12/27/77-03/10/97	10	49.5	52.9	110.	18.	704.544	26.543	19.1	35.	66.75	106.5
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/27/69-03/10/97	8	2610.	2586.25	3520.	1720.	380026.786	616.463	**	**	**	**

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Annual Analysis for 1986 - Station HOVE0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/60-03/10/97	3	0.	4.667	14.	0.	65.333	8.083	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	12/27/77-03/10/97	3	35.	42.667	63.	30.	316.333	17.786	**	**	**	**

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Annual Analysis for 1986 - Station HOVE0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/27/69-03/10/97	3	3070.	2933.333	3500.	2230.	417233.333	645.936	**	**	**	**

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Annual Analysis for 1987 - Station HOVE0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004p	STREAM WIDTH (FEET)	08/27/87-03/10/97	1	24.	24.	24.	24.	0.	0.	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/60-03/10/97	11	15.	11.318	20.	0.	59.114	7.689	0.2	2.	18.	19.6
00061	FLOW, STREAM, INSTANTANEOUS CFS	12/27/77-03/10/97	11	79.	96.	232.	31.	3454.2	58.772	33.8	58.	142.	216.6
00065	STAGE, STREAM (FEET)	08/27/87-03/10/97	5	3.27	3.282	3.72	2.93	0.081	0.284	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/27/69-03/10/97	11	2330.	2422.727	3320.	1670.	315121.818	561.357	1702.	2000.	3080.	3276.
00400p	PH (STANDARD UNITS)	08/27/69-03/10/97	5	8.	7.88	8.	7.6	0.032	0.179	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	08/27/69-03/10/97	5	8.	7.848	8.	7.6	0.033	0.182	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/27/69-03/10/97	5	0.01	0.014	0.025	0.01	0.	0.007	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	10/07/80-01/24/97	5	8.1	8.06	8.2	7.9	0.013	0.114	**	**	**	**
00403p	CONVERTED PH, LAB, STANDARD UNITS	10/07/80-01/24/97	5	8.1	8.048	8.2	7.9	0.013	0.115	**	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/07/80-01/24/97	5	0.008	0.009	0.013	0.006	0.	0.002	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/27/69-01/24/97	5	230.	240.	310.	210.	1700.	41.231	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/27/69-01/24/97	5	120.	129.2	190.	96.	1313.2	36.238	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	08/27/69-01/24/97	5	120.	131.4	210.	89.	2323.8	48.206	**	**	**	**
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	08/27/69-01/24/97	5	4.1	4.3	5.	3.7	0.325	0.57	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	08/27/69-01/24/97	5	27.	27.6	43.	18.	110.3	10.502	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/27/69-01/24/97	5	1100.	1244.	2000.	870.	205430.	453.244	**	**	**	**
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	12/27/77-01/24/97	5	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00955p	SILICA, DISSOLVED (MG/L AS SI02)	12/27/77-01/24/97	5	12.	11.6	13.	10.	1.3	1.14	**	**	**	**

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

Annual Analysis for 1988 - Station HOVE0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004p	STREAM WIDTH (FEET)	08/27/87-03/10/97	10	25.	25.2	26.	25.	0.178	0.422	25.	25.	25.25	26.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/60-03/10/97	11	13.	11.955	22.5	0.	70.273	8.383	0.3	2.	19.5	22.4
00061	FLOW, STREAM, INSTANTANEOUS CFS	12/27/77-03/10/97	11	51.	54.	97.	26.	533.	23.087	26.	37.	75.	94.4
00065	STAGE, STREAM (FEET)	08/27/87-03/10/97	11	2.98	3.015	3.36	2.76	0.033	0.18	2.774	2.87	3.18	3.332
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/27/69-03/10/97	11	2150.	2324.545	3330.	1750.	352207.273	593.471	1760.	1870.	2990.	3314.
00400p	PH (STANDARD UNITS)	08/27/69-03/10/97	10	7.95	7.8	8.4	6.9	0.198	0.445	6.94	7.45	8.1	8.37
00400p	CONVERTED PH (STANDARD UNITS)	08/27/69-03/10/97	10	7.947	7.559	8.4	6.9	0.262	0.512	6.94	7.45	8.1	8.37
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/27/69-03/10/97	10	0.011	0.028	0.126	0.004	0.001	0.037	0.004	0.008	0.036	0.118
00403p	PH, LAB, STANDARD UNITS SU	10/07/80-01/24/97	11	8.1	8.045	8.2	7.8	0.023	0.151	7.8	7.9	8.2	8.2
00403p	CONVERTED PH, LAB, STANDARD UNITS	10/07/80-01/24/97	11	8.1	8.02	8.2	7.8	0.023	0.153	7.8	7.9	8.2	8.2
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/07/80-01/24/97	11	0.008	0.01	0.016	0.006	0.	0.004	0.006	0.006	0.013	0.016
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/27/69-01/24/97	11	220.	250.	370.	180.	3920.	62.61	184.	200.	320.	362.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/27/69-01/24/97	11	120.	143.	240.	93.	2291.	47.864	96.4	110.	180.	234.
00930p	SODIUM, DISSOLVED (MG/L AS NA)	08/27/69-01/24/97	11	150.	154.818	240.	91.	2808.964	53.	91.2	110.	210.	236.
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	08/27/69-01/24/97	11	4.7	4.773	6.2	3.4	0.572	0.756	3.54	4.3	5.4	6.04
00940p	CHLORIDE,TOTAL IN WATER MG/L	08/27/69-01/24/97	11	26.	28.909	84.	5.	402.491	20.062	7.6	18.	32.	74.4
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/27/69-01/24/97	11	1200.	1278.182	1900.	800.	165876.364	407.279	820.	920.	1700.	1900.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	12/27/77-01/24/97	11	0.4	0.4	0.5	0.3	0.004	0.063	0.3	0.4	0.4	0.5
00955p	SILICA, DISSOLVED (MG/L AS SI02)	12/27/77-01/24/97	11	11.	10.664	14.	3.1	8.203	2.864	4.4	9.7	12.	13.8

** - 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 1989 - Station HOVE0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004p	STREAM WIDTH (FEET)	08/27/87-03/10/97	11	23.	23.636	27.	20.	3.055	1.748	20.6	23.	25.	26.6
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/60-03/10/97	11	13.	11.	22.	0.	65.2	8.075	0.	0.	16.	21.6
00061	FLOW, STREAM, INSTANTANEOUS CFS	12/27/77-03/10/97	11	39.	50.091	103.	19.	765.291	27.664	20.4	33.	58.	102.4
00065	STAGE, STREAM (FEET)	08/27/87-03/10/97	11	2.95	2.982	3.38	2.69	0.048	0.219	2.708	2.83	3.03	3.378
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/27/69-03/10/97	10	2750.	2674.	3200.	2010.	165671.111	407.027	2035.	2290.	3025.	3187.
00400p	PH (STANDARD UNITS)	08/27/69-03/10/97	11	8.4	8.364	8.6	8.1	0.025	0.157	8.12	8.2	8.4	8.6
00400p	CONVERTED PH (STANDARD UNITS)	08/27/69-03/10/97	11	8.4	8.338	8.6	8.1	0.025	0.159	8.12	8.2	8.4	8.6
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/27/69-03/10/97	11	0.004	0.005	0.008	0.003	0.	0.002	0.003	0.004	0.006	0.008
00403p	PH, LAB, STANDARD UNITS SU	10/07/80-01/24/97	11	7.9	7.918	8.2	7.7	0.028	0.166	7.7	7.8	8.1	8.18
00403p	CONVERTED PH, LAB, STANDARD UNITS	10/07/80-01/24/97	11	7.9	7.89	8.2	7.7	0.028	0.169	7.7	7.8	8.1	8.18
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/07/80-01/24/97	11	0.013	0.013	0.02	0.006	0.	0.005	0.007	0.008	0.016	0.02
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/27/69-01/24/97	11	270.	273.636	360.	210.	2985.455	54.639	212.	220.	330.	358.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/27/69-01/24/97	11	150.	154.455	210.	89.	1840.273	42.898	93.2	110.	190.	208.
00930p	SODIUM, DISSOLVED (MG/L AS NA)	08/27/69-01/24/97	11	160.	168.182	230.	110.	2136.364	46.221	112.	120.	210.	228.
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	08/27/69-01/24/97	11	5.3	5.473	6.1	4.9	0.194	0.441	4.92	5.1	6.	6.08
00940p	CHLORIDE,TOTAL IN WATER MG/L	08/27/69-01/24/97	11	29.	31.182	44.	20.	71.164	8.436	20.4	23.	38.	43.4
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/27/69-01/24/97	11	1300.	1352.727	1900.	910.	138041.818	371.54	922.	1000.	1700.	1860.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	12/27/77-01/24/97	11	0.4	0.409	0.5	0.4	0.001	0.03	0.4	0.4	0.4	0.48
00955p	SILICA, DISSOLVED (MG/L AS SI02)	12/27/77-01/24/97	11	12.	11.382	16.	6.	6.98	2.642	6.56	9.4	13.	15.4

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Annual Analysis for 1990 - Station HOVE0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004p	STREAM WIDTH (FEET)	08/27/87-03/10/97	8	24.5	20.75	26.	4.	67.071	8.19	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/60-03/10/97	12	16.5	15.417	22.5	3.	35.674	5.973	3.9	13.	20.	21.9
00061	FLOW, STREAM, INSTANTANEOUS CFS	12/27/77-03/10/97	12	36.5	55.75	272.	3.	5317.114	72.919	3.6	15.75	56.	218.
00065	STAGE, STREAM (FEET)	08/27/87-03/10/97	11	2.96	2.863	4.21	1.39	0.451	0.671	1.602	2.63	3.04	4.026
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/27/69-03/10/97	12	2475.	2654.167	3640.	1900.	398190.152	631.023	1930.	2035.	3320.	3583.
00400p	PH (STANDARD UNITS)	08/27/69-03/10/97	12	8.2	8.17	8.5	7.6	0.054	0.233	7.72	8.025	8.33	8.47
00400p	CONVERTED PH (STANDARD UNITS)	08/27/69-03/10/97	12	8.2	8.101	8.5	7.6	0.06	0.244	7.72	8.025	8.33	8.47
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/27/69-03/10/97	12	0.006	0.008	0.025	0.003	0.	0.006	0.003	0.005	0.009	0.021
00403p	PH, LAB, STANDARD UNITS SU	10/07/80-01/24/97	11	7.9	7.873	8.	7.4	0.034	0.185	7.46	7.8	8.	8.
00403p	CONVERTED PH, LAB, STANDARD UNITS	10/07/80-01/24/97	11	7.9	7.828	8.	7.4	0.036	0.191	7.46	7.8	8.	8.
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/07/80-01/24/97	11	0.013	0.015	0.04	0.01	0.	0.009	0.01	0.01	0.016	0.036
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/27/69-01/24/97	12	255.	239.167	320.	0.	7244.697	85.116	63.	212.5	297.5	317.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/27/69-01/24/97	12	135.	137.667	220.	0.	4127.152	64.243	24.6	102.5	197.5	220.
00930p	SODIUM, DISSOLVED (MG/L AS NA)	08/27/69-01/24/97	12	140.	156.667	280.	0.	6115.152	78.199	30.	112.5	232.5	271.
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	08/27/69-01/24/97	12	6.45	6.483	13.	0.	9.594	3.097	1.38	4.9	8.3	11.74
00940p	CHLORIDE,TOTAL IN WATER MG/L	08/27/69-01/24/97	12	22.	25.	52.	0.	222.182	14.906	3.3	18.	32.	51.7
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/27/69-01/24/97	12	1250.	1260.833	1900.	0.	302881.061	550.346	258.	932.5	1750.	1900.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	12/27/77-01/24/97	10	0.35	0.355	0.9	0.	0.09	0.3	0.005	0.088	0.5	0.89
00955p	SILICA, DISSOLVED (MG/L AS SI02)	12/27/77-01/24/97	11	11.	9.755	13.	0.	14.145	3.761	1.48	8.1	12.	13.

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Annual Analysis for 1991 - Station HOVE0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004p	STREAM WIDTH (FEET)	08/27/87-03/10/97	9	24.	23.333	30.	14.	26.75	5.172	14.	20.	26.5	30.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/60-03/10/97	9	10.	11.778	21.	0.	66.757	8.17	0.	3.75	19.5	21.
00061	FLOW, STREAM, INSTANTANEOUS CFS	12/27/77-03/10/97	9	50.	42.222	81.	6.	552.944	23.515	6.	20.5	55.5	81.
00065	STAGE, STREAM (FEET)	08/27/87-03/10/97	9	3.	2.916	3.23	2.47	0.06	0.244	2.47	2.71	3.085	3.23
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/27/69-03/10/97	9	2050.	2436.667	3180.	1860.	337750.	581.163	1860.	1955.	3150.	3180.

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Annual Analysis for 1991 - Station HOVE0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400p	PH (STANDARD UNITS)	08/27/69-03/10/97	8	8.25	8.325	8.6	8.1	0.034	0.183	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	08/27/69-03/10/97	8	8.247	8.293	8.6	8.1	0.035	0.186	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/27/69-03/10/97	8	0.006	0.005	0.008	0.003	0.	0.002	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	10/07/80-01/24/97	9	7.9	7.9	8.	7.8	0.008	0.087	7.8	7.8	8.	8.
00403p	CONVERTED PH, LAB, STANDARD UNITS	10/07/80-01/24/97	9	7.9	7.892	8.	7.8	0.008	0.087	7.8	7.8	8.	8.
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/07/80-01/24/97	9	0.013	0.013	0.016	0.01	0.	0.003	0.01	0.01	0.016	0.016
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/27/69-01/24/97	9	250.	271.111	350.	210.	3436.111	58.618	210.	215.	335.	350.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/27/69-01/24/97	9	130.	154.444	220.	100.	2652.778	51.505	100.	105.	205.	220.
00930p	SODIUM, DISSOLVED (MG/L AS NA)	08/27/69-01/24/97	9	130.	159.333	250.	97.	3866.25	62.179	97.	98.5	220.	250.
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	08/27/69-01/24/97	9	5.5	5.878	9.2	4.5	1.734	1.317	4.5	5.4	5.95	9.2
00940p	CHLORIDE,TOTAL IN WATER MG/L	08/27/69-01/24/97	9	42.	36.111	48.	22.	124.361	11.152	22.	23.5	46.5	48.
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/27/69-01/24/97	9	1100.	1374.444	2100.	970.	197377.778	444.272	970.	1000.	1750.	2100.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	12/27/77-01/24/97	9	0.5	0.478	0.8	0.3	0.029	0.172	0.3	0.3	0.6	0.8
00955p	SILICA, DISSOLVED (MG/L AS SI02)	12/27/77-01/24/97	9	12.	10.356	13.	3.6	9.998	3.162	3.6	8.3	12.5	13.

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

Annual Analysis for 1992 - Station HOVE0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004p	STREAM WIDTH (FEET)	08/27/87-03/10/97	12	26.	25.333	27.	21.	4.061	2.015	21.3	24.25	27.	27.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/60-03/10/97	13	12.	12.346	23.	0.	47.849	6.917	1.2	6.	18.	21.6
00061	FLOW, STREAM, INSTANTANEOUS CFS	12/27/77-03/10/97	13	73.	78.923	196.	33.	2052.744	45.307	33.4	39.	98.5	168.4
00065	STAGE, STREAM (FEET)	08/27/87-03/10/97	13	3.16	3.192	3.88	2.82	0.09	0.3	2.844	2.9	3.355	3.748
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/27/69-03/10/97	13	2120.	2252.308	3100.	1600.	298152.564	546.033	1628.	1755.	2795.	3072.
00400p	PH (STANDARD UNITS)	08/27/69-03/10/97	13	8.3	8.392	9.	8.1	0.052	0.229	8.14	8.3	8.4	8.88
00400p	CONVERTED PH (STANDARD UNITS)	08/27/69-03/10/97	13	8.3	8.349	9.	8.1	0.054	0.233	8.14	8.3	8.4	8.88
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/27/69-03/10/97	13	0.005	0.004	0.008	0.001	0.	0.002	0.001	0.004	0.005	0.007
00403p	PH, LAB, STANDARD UNITS SU	10/07/80-01/24/97	13	8.	7.977	8.2	7.7	0.017	0.13	7.78	7.9	8.1	8.16
00403p	CONVERTED PH, LAB, STANDARD UNITS	10/07/80-01/24/97	13	8.	7.958	8.2	7.7	0.017	0.131	7.78	7.9	8.1	8.16
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/07/80-01/24/97	13	0.01	0.011	0.02	0.006	0.	0.003	0.007	0.008	0.013	0.017
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/27/69-01/24/97	13	240.	256.923	350.	200.	2273.077	47.677	200.	210.	295.	330.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/27/69-01/24/97	13	140.	140.	200.	87.	2017.167	44.913	89.8	99.5	190.	196.
00930p	SODIUM, DISSOLVED (MG/L AS NA)	08/27/69-01/24/97	13	140.	148.615	230.	82.	3138.756	56.025	86.	99.	210.	226.
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	08/27/69-01/24/97	13	4.9	5.177	7.1	4.	0.877	0.936	4.08	4.35	5.9	6.82
00940p	CHLORIDE,TOTAL IN WATER MG/L	08/27/69-01/24/97	13	25.	31.385	47.	20.	109.923	10.484	20.8	23.	42.5	46.6
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/27/69-01/24/97	13	1000.	1184.308	1800.	750.	157407.897	396.747	774.	845.	1600.	1760.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	12/27/77-01/24/97	13	0.4	0.319	0.5	0.	0.024	0.155	0.02	0.25	0.4	0.5
00955p	SILICA, DISSOLVED (MG/L AS SI02)	12/27/77-01/24/97	13	10.	9.685	13.	3.5	7.545	2.747	4.02	8.9	11.5	12.6

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Annual Analysis for 1993 - Station HOVE0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004p	STREAM WIDTH (FEET)	08/27/87-03/10/97	9	26.	25.778	29.	23.	3.694	1.922	23.	24.	27.	29.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/60-03/10/97	9	10.	11.833	20.5	2.	50.875	7.133	2.	5.25	19.5	20.5
00061	FLOW, STREAM, INSTANTANEOUS CFS	12/27/77-03/10/97	9	87.	84.889	161.	47.	1277.611	35.744	47.	57.	103.	161.
00065	STAGE, STREAM (FEET)	08/27/87-03/10/97	9	3.28	3.252	3.72	2.97	0.053	0.23	2.97	3.065	3.37	3.72
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/27/69-03/10/97	9	2120.	2362.222	3140.	1810.	256719.444	506.675	1810.	1955.	2880.	3140.
00400p	PH (STANDARD UNITS)	08/27/69-03/10/97	9	8.2	8.189	8.4	7.9	0.021	0.145	7.9	8.1	8.3	8.4
00400p	CONVERTED PH (STANDARD UNITS)	08/27/69-03/10/97	9	8.2	8.166	8.4	7.9	0.022	0.147	7.9	8.1	8.3	8.4
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/27/69-03/10/97	9	0.006	0.007	0.013	0.004	0.	0.003	0.004	0.005	0.008	0.013
00403p	PH, LAB, STANDARD UNITS SU	10/07/80-01/24/97	9	7.9	7.889	8.	7.7	0.011	0.105	7.7	7.8	8.	8.
00403p	CONVERTED PH, LAB, STANDARD UNITS	10/07/80-01/24/97	9	7.9	7.877	8.	7.7	0.011	0.106	7.7	7.8	8.	8.

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

Annual Analysis for 1993 - Station HOVE0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/07/80-01/24/97	9	0.013	0.013	0.02	0.01	0.	0.003	0.01	0.01	0.016	0.02
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/27/69-01/24/97	9	250.	265.556	350.	190.	2977.778	54.569	190.	220.	315.	350.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/27/69-01/24/97	9	120.	138.	210.	74.	2273.	47.676	74.	99.	180.	210.
00930p	SODIUM, DISSOLVED (MG/L AS NA)	08/27/69-01/24/97	9	100.	131.778	220.	56.	3166.444	56.271	56.	91.	180.	220.
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	08/27/69-01/24/97	9	4.6	4.733	6.1	3.8	0.575	0.758	3.8	4.2	5.4	6.1
00940p	CHLORIDE,TOTAL IN WATER MG/L	08/27/69-01/24/97	9	23.	30.	51.	19.	128.25	11.325	19.	20.5	38.5	51.
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/27/69-01/24/97	9	1000.	1163.333	1700.	790.	117400.	342.637	790.	880.	1500.	1700.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	12/27/77-01/24/97	9	0.3	0.356	0.5	0.3	0.005	0.073	0.3	0.3	0.4	0.5
00955p	SILICA, DISSOLVED (MG/L AS SI02)	12/27/77-01/24/97	9	11.	11.878	14.	9.9	1.909	1.382	9.9	11.	13.	14.

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

Annual Analysis for 1994 - Station HOVE0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004p	STREAM WIDTH (FEET)	08/27/87-03/10/97	12	22.	22.333	26.	18.	4.97	2.229	18.9	21.	23.75	26.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/60-03/10/97	12	16.25	14.642	22.5	3.	38.923	6.239	3.9	9.375	19.375	22.11
00061	FLOW, STREAM, INSTANTANEOUS CFS	12/27/77-03/10/97	12	54.	56.917	104.	8.	601.538	24.526	17.6	42.	73.	95.6
00065	STAGE, STREAM (FEET)	08/27/87-03/10/97	12	3.015	2.971	3.34	2.29	0.091	0.301	2.356	2.893	3.19	3.298
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/27/69-03/10/97	12	2050.	2236.667	3350.	1660.	306824.242	553.917	1681.	1790.	2652.5	3269.
00400p	PH (STANDARD UNITS)	08/27/69-03/10/97	11	8.2	8.273	8.7	8.1	0.028	0.168	8.1	8.2	8.3	8.64
00400p	CONVERTED PH (STANDARD UNITS)	08/27/69-03/10/97	11	8.2	8.248	8.7	8.1	0.029	0.17	8.1	8.2	8.3	8.64
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/27/69-03/10/97	11	0.006	0.006	0.008	0.002	0.	0.002	0.002	0.005	0.006	0.008
00403p	PH, LAB, STANDARD UNITS SU	10/07/80-01/24/97	12	7.85	7.8	7.9	7.6	0.013	0.113	7.63	7.7	7.9	7.9
00403p	CONVERTED PH, LAB, STANDARD UNITS	10/07/80-01/24/97	12	7.847	7.786	7.9	7.6	0.013	0.114	7.63	7.7	7.9	7.9
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/07/80-01/24/97	12	0.014	0.016	0.025	0.013	0.	0.004	0.013	0.013	0.02	0.024
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/27/69-01/24/97	12	230.	246.667	330.	190.	2369.697	48.68	193.	202.5	297.5	324.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/27/69-01/24/97	12	120.	132.417	210.	88.	1719.538	41.467	88.6	93.25	167.5	204.
00930p	SODIUM, DISSOLVED (MG/L AS NA)	08/27/69-01/24/97	12	115.	127.333	240.	75.	2525.515	50.255	76.8	87.5	150.	228.
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	08/27/69-01/24/97	12	5.4	5.742	8.6	4.3	1.628	1.276	4.33	4.7	6.675	8.12
00940p	CHLORIDE,TOTAL IN WATER MG/L	08/27/69-01/24/97	12	22.	26.333	47.	17.	96.061	9.801	17.6	19.25	33.	45.5
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/27/69-01/24/97	12	935.	1074.167	1800.	710.	130935.606	361.85	725.	780.	1375.	1740.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	12/27/77-01/24/97	12	0.4	0.392	0.4	0.3	0.001	0.029	0.33	0.4	0.4	0.4
00955p	SILICA, DISSOLVED (MG/L AS SI02)	12/27/77-01/24/97	12	12.	11.475	14.	7.4	4.02	2.005	7.85	9.8	12.75	14.

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Annual Analysis for 1995 - Station HOVE0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004p	STREAM WIDTH (FEET)	08/27/87-03/10/97	11	26.	26.364	29.	24.	2.255	1.502	24.2	25.	28.	28.8
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/60-03/10/97	12	15.5	13.067	21.6	0.	56.739	7.533	1.2	5.125	19.45	21.42
00061	FLOW, STREAM, INSTANTANEOUS CFS	12/27/77-03/10/97	12	73.5	74.833	176.	20.	1651.242	40.635	22.4	46.	88.25	155.3
00065	STAGE, STREAM (FEET)	08/27/87-03/10/97	11	3.16	3.15	3.82	2.71	0.087	0.295	2.728	2.98	3.25	3.728
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/27/69-03/10/97	12	1933.5	2288.25	3190.	1580.	470634.75	686.028	1595.	1724.5	3077.5	3190.
00400p	PH (STANDARD UNITS)	08/27/69-03/10/97	11	8.2	8.252	8.4	8.1	0.012	0.11	8.11	8.16	8.4	8.4
00400p	CONVERTED PH (STANDARD UNITS)	08/27/69-03/10/97	11	8.2	8.24	8.4	8.1	0.012	0.111	8.11	8.16	8.4	8.4
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/27/69-03/10/97	11	0.006	0.006	0.008	0.004	0.	0.001	0.004	0.004	0.007	0.008
00403p	PH, LAB, STANDARD UNITS SU	10/07/80-01/24/97	11	7.8	7.782	7.9	7.6	0.014	0.117	7.6	7.7	7.9	7.9
00403p	CONVERTED PH, LAB, STANDARD UNITS	10/07/80-01/24/97	11	7.8	7.767	7.9	7.6	0.014	0.118	7.6	7.7	7.9	7.9
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/07/80-01/24/97	11	0.016	0.017	0.025	0.013	0.	0.005	0.013	0.013	0.02	0.025
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/27/69-01/24/97	11	200.	252.727	330.	180.	4261.818	65.283	184.	200.	330.	330.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/27/69-01/24/97	11	90.	129.455	190.	79.	2590.873	50.901	79.2	87.	190.	190.
00930p	SODIUM, DISSOLVED (MG/L AS NA)	08/27/69-01/24/97	11	85.	131.364	220.	72.	3824.655	61.844	72.2	78.	190.	218.
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	08/27/69-01/24/97	11	4.6	5.064	7.5	4.1	1.125	1.06	4.1	4.3	5.8	7.18

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Annual Analysis for 1995 - Station HOVE0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00940p	CHLORIDE,TOTAL IN WATER MG/L	08/27/69-01/24/97	11	18.	26.182	42.	15.	119.764	10.944	15.4	17.	38.	41.4
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/27/69-01/24/97	11	740.	1118.182	1700.	680.	219216.364	468.205	680.	730.	1600.	1700.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	12/27/77-01/24/97	11	0.4	0.382	0.4	0.3	0.002	0.04	0.3	0.4	0.4	0.4
00955p	SILICA, DISSOLVED (MG/L AS SI02)	12/27/77-01/24/97	11	11.	10.591	13.	3.7	6.489	2.547	4.76	9.8	12.	12.8

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Annual Analysis for 1996 - Station HOVE0044

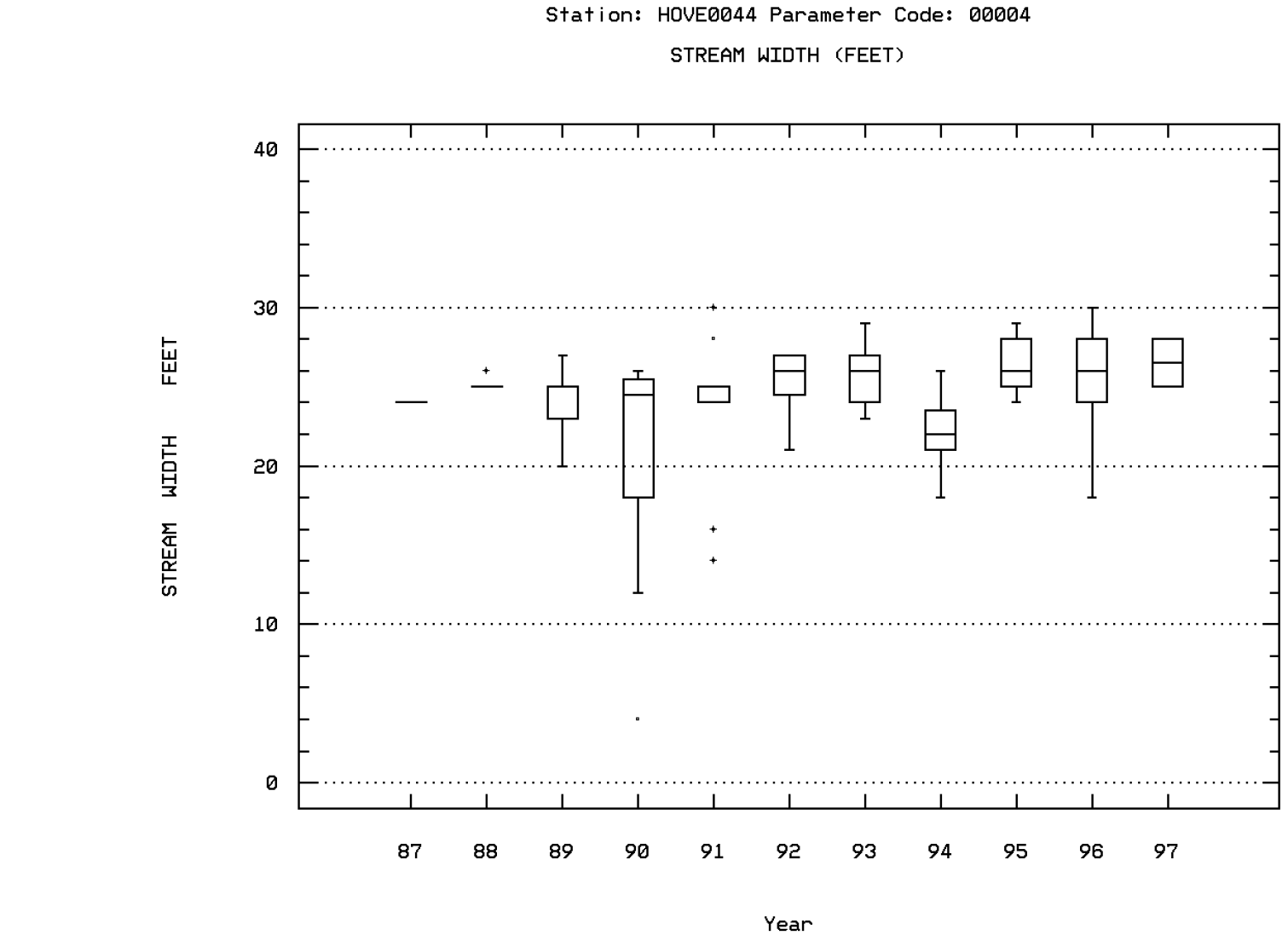
Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004p	STREAM WIDTH (FEET)	08/27/87-03/10/97	11	26.	25.636	30.	18.	10.455	3.233	19.	24.	28.	29.6
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/60-03/10/97	12	9.75	10.658	22.3	0.	87.441	9.351	0.	0.325	20.5	21.91
00061	FLOW, STREAM, INSTANTANEOUS CFS	12/27/77-03/10/97	12	37.	84.25	346.	20.	10104.386	100.521	20.9	25.	129.5	303.4
00065	STAGE, STREAM (FEET)	08/27/87-03/10/97	11	2.99	3.276	4.86	2.72	0.445	0.667	2.734	2.83	3.74	4.692
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/27/69-03/10/97	12	2662.	2379.083	3170.	1508.	412747.174	642.454	1556.6	1715.	2930.	3104.
00400p	PH (STANDARD UNITS)	08/27/69-03/10/97	11	8.2	8.164	8.25	8.	0.005	0.071	8.02	8.1	8.2	8.244
00400p	CONVERTED PH (STANDARD UNITS)	08/27/69-03/10/97	11	8.2	8.158	8.25	8.	0.005	0.072	8.02	8.1	8.2	8.244
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/27/69-03/10/97	11	0.006	0.007	0.01	0.006	0.	0.001	0.006	0.006	0.008	0.01
00403p	PH, LAB, STANDARD UNITS SU	10/07/80-01/24/97	11	7.8	7.745	7.9	7.5	0.019	0.137	7.52	7.6	7.9	7.9
00403p	CONVERTED PH, LAB, STANDARD UNITS	10/07/80-01/24/97	11	7.8	7.725	7.9	7.5	0.019	0.138	7.52	7.6	7.9	7.9
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/07/80-01/24/97	11	0.016	0.019	0.032	0.013	0.	0.006	0.013	0.013	0.025	0.03
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/27/69-01/24/97	11	270.	254.545	350.	170.	4287.273	65.477	174.	190.	310.	346.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/27/69-01/24/97	11	140.	136.	200.	71.	2815.	53.057	73.6	86.	190.	198.
00930p	SODIUM, DISSOLVED (MG/L AS NA)	08/27/69-01/24/97	11	150.	134.182	220.	65.	3271.364	57.196	67.4	78.	180.	214.
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	08/27/69-01/24/97	11	5.6	5.827	9.	4.3	2.496	1.58	4.32	4.6	6.9	8.82
00940p	CHLORIDE,TOTAL IN WATER MG/L	08/27/69-01/24/97	11	33.	28.182	41.	15.	116.764	10.806	15.4	17.	38.	41.
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/27/69-01/24/97	11	1300.	1163.636	1700.	650.	174845.455	418.145	666.	740.	1500.	1680.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	12/27/77-01/24/97	11	0.4	0.409	0.5	0.4	0.001	0.03	0.4	0.4	0.4	0.48
00955p	SILICA, DISSOLVED (MG/L AS SI02)	12/27/77-01/24/97	11	12.	10.609	13.	4.7	8.001	2.829	4.96	10.	13.	13.

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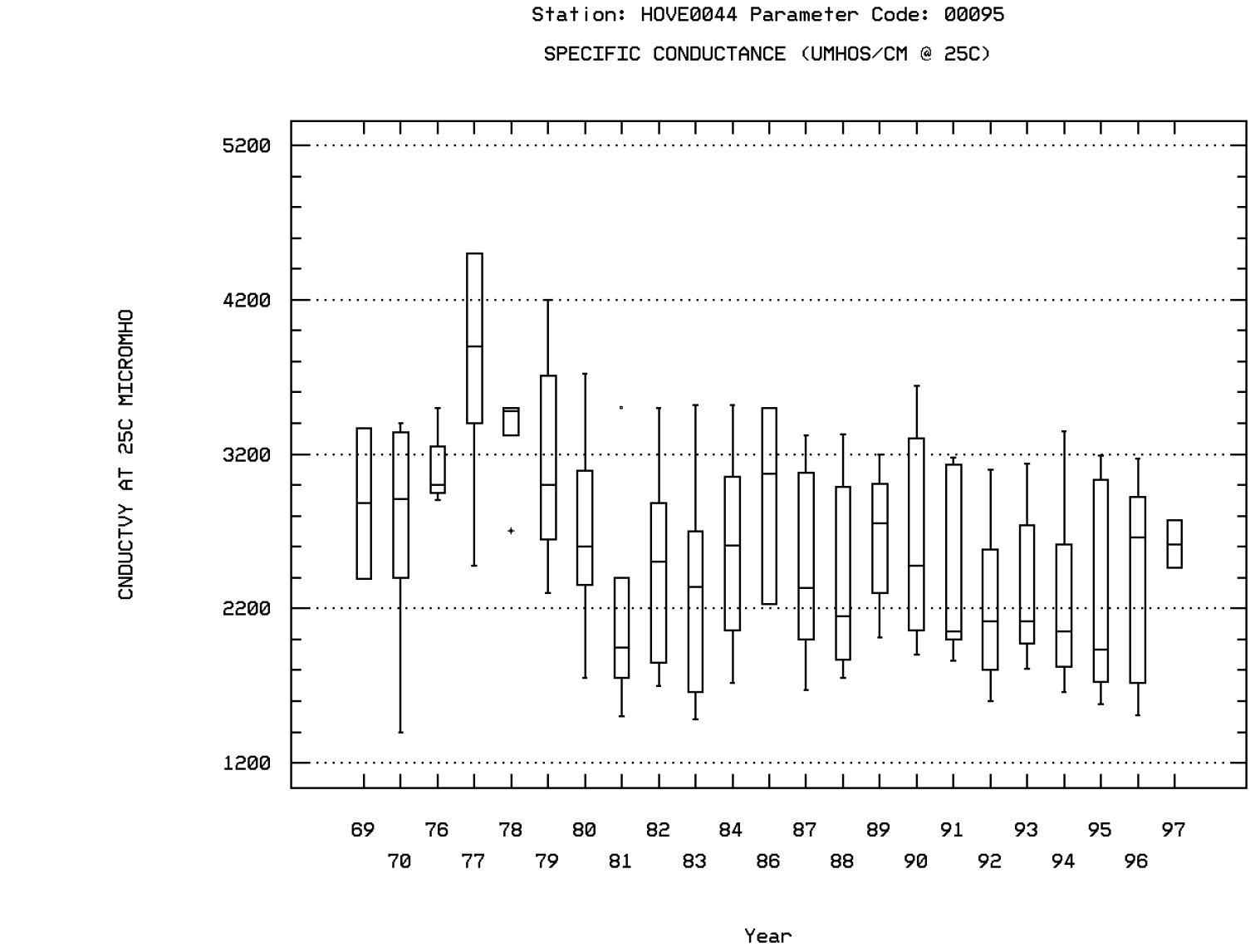
Annual Analysis for 1997 - Station HOVE0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004p	STREAM WIDTH (FEET)	08/27/87-03/10/97	2	26.5	26.5	28.	25.	4.5	2.121	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/60-03/10/97	2	2.75	2.75	5.5	0.	15.125	3.889	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	12/27/77-03/10/97	2	77.	77.	104.	50.	1458.	38.184	**	**	**	**
00065	STAGE, STREAM (FEET)	08/27/87-03/10/97	2	3.225	3.225	3.42	3.03	0.076	0.276	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/27/69-03/10/97	2	2617.5	2617.5	2770.	2465.	46512.5	215.668	**	**	**	**
00400p	PH (STANDARD UNITS)	08/27/69-03/10/97	2	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	08/27/69-03/10/97	2	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/27/69-03/10/97	2	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	10/07/80-01/24/97	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00403p	CONVERTED PH, LAB, STANDARD UNITS	10/07/80-01/24/97	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/07/80-01/24/97	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/27/69-01/24/97	1	310.	310.	310.	310.	0.	0.	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/27/69-01/24/97	1	170.	170.	170.	170.	0.	0.	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	08/27/69-01/24/97	1	170.	170.	170.	170.	0.	0.	**	**	**	**
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	08/27/69-01/24/97	1	4.4	4.4	4.4	4.4	0.	0.	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	08/27/69-01/24/97	1	34.	34.	34.	34.	0.	0.	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/27/69-01/24/97	1	1500.	1500.	1500.	1500.	0.	0.	**	**	**	**
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	12/27/77-01/24/97	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00955p	SILICA, DISSOLVED (MG/L AS SI02)	12/27/77-01/24/97	1	12.	12.	12.	12.	0.	0.	**	**	**	**

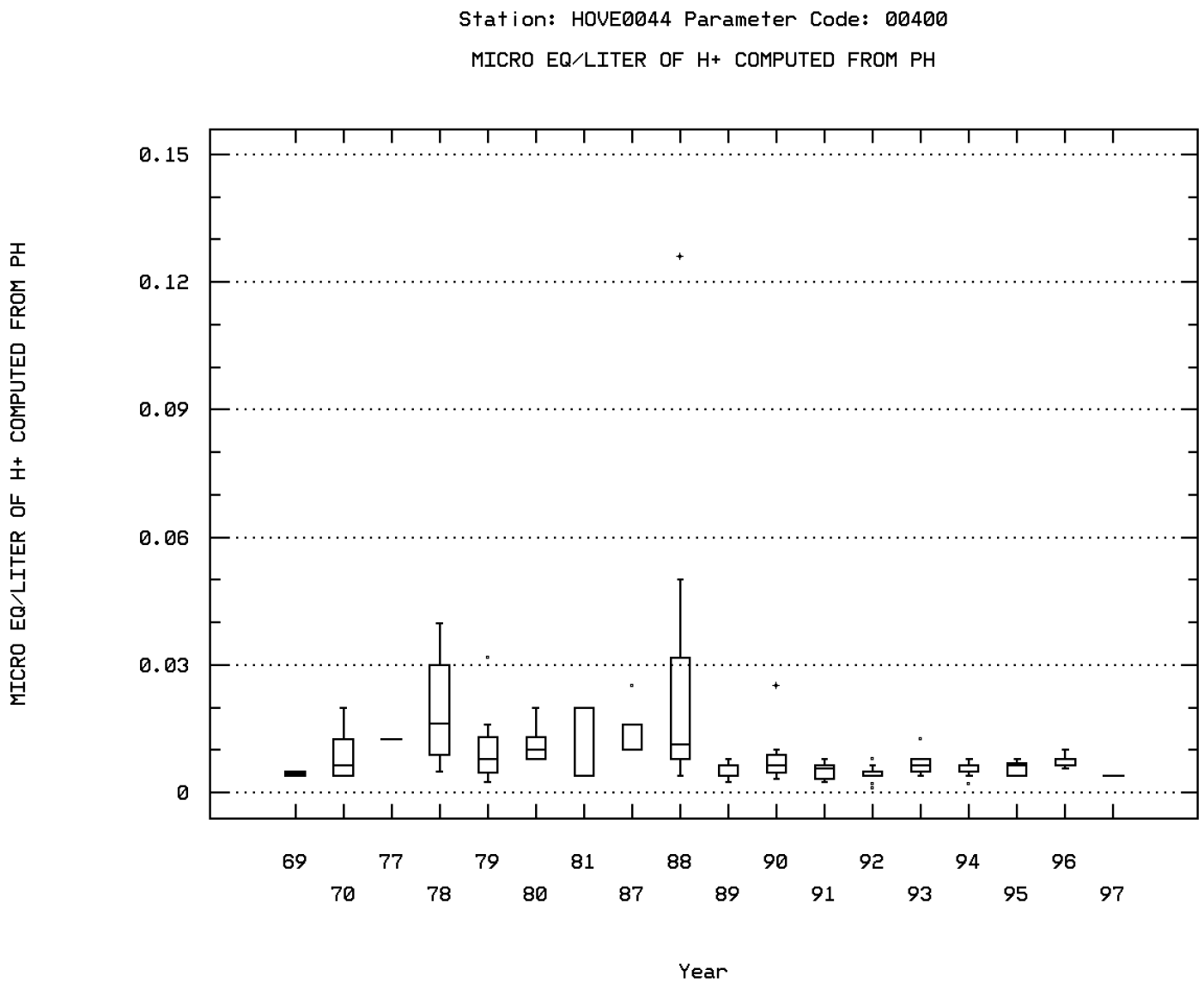
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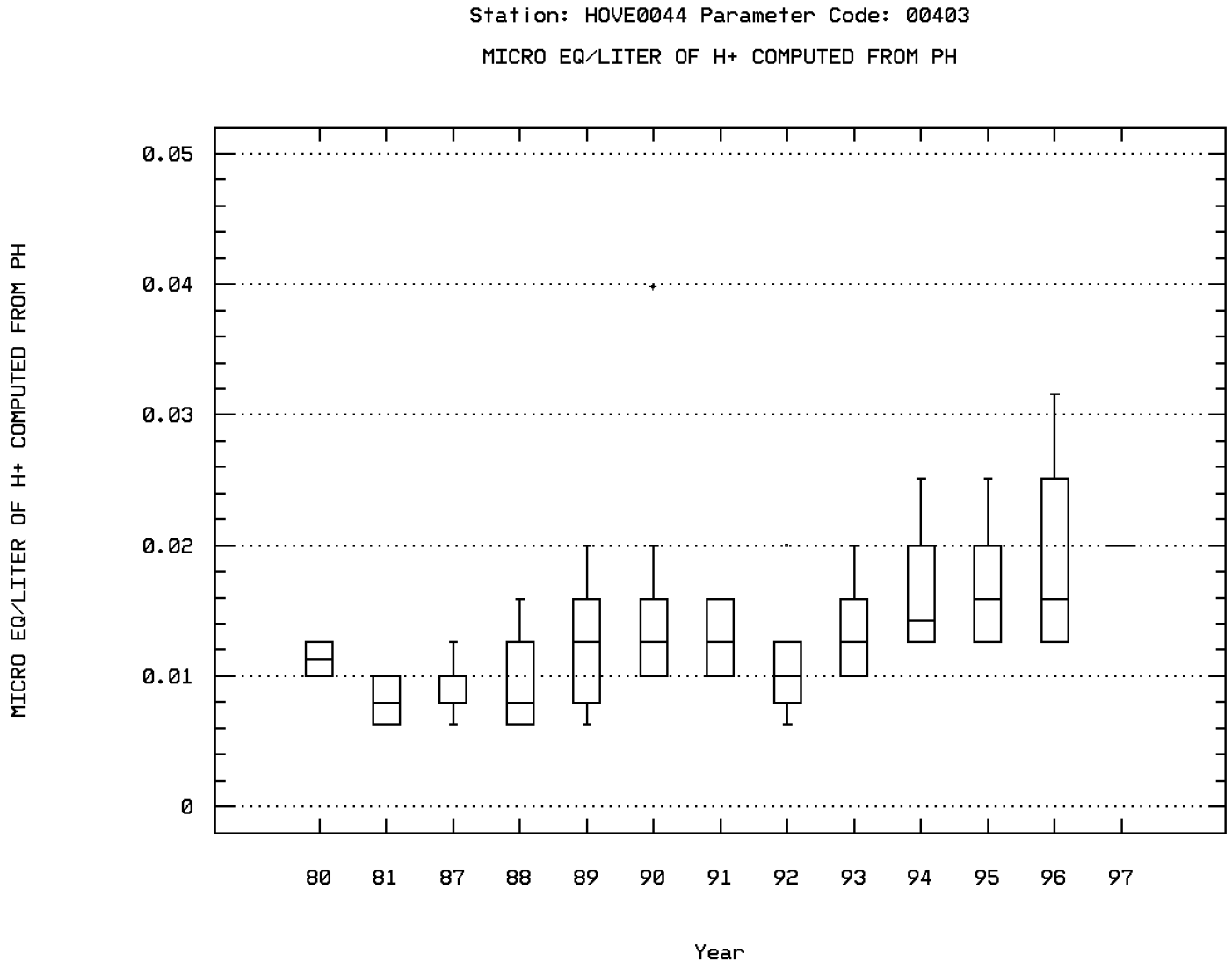
MCELMO CREEK NEAR COLORADO-UTAH STATE L



MCELMO CREEK NEAR COLORADO-UTAH STATE L



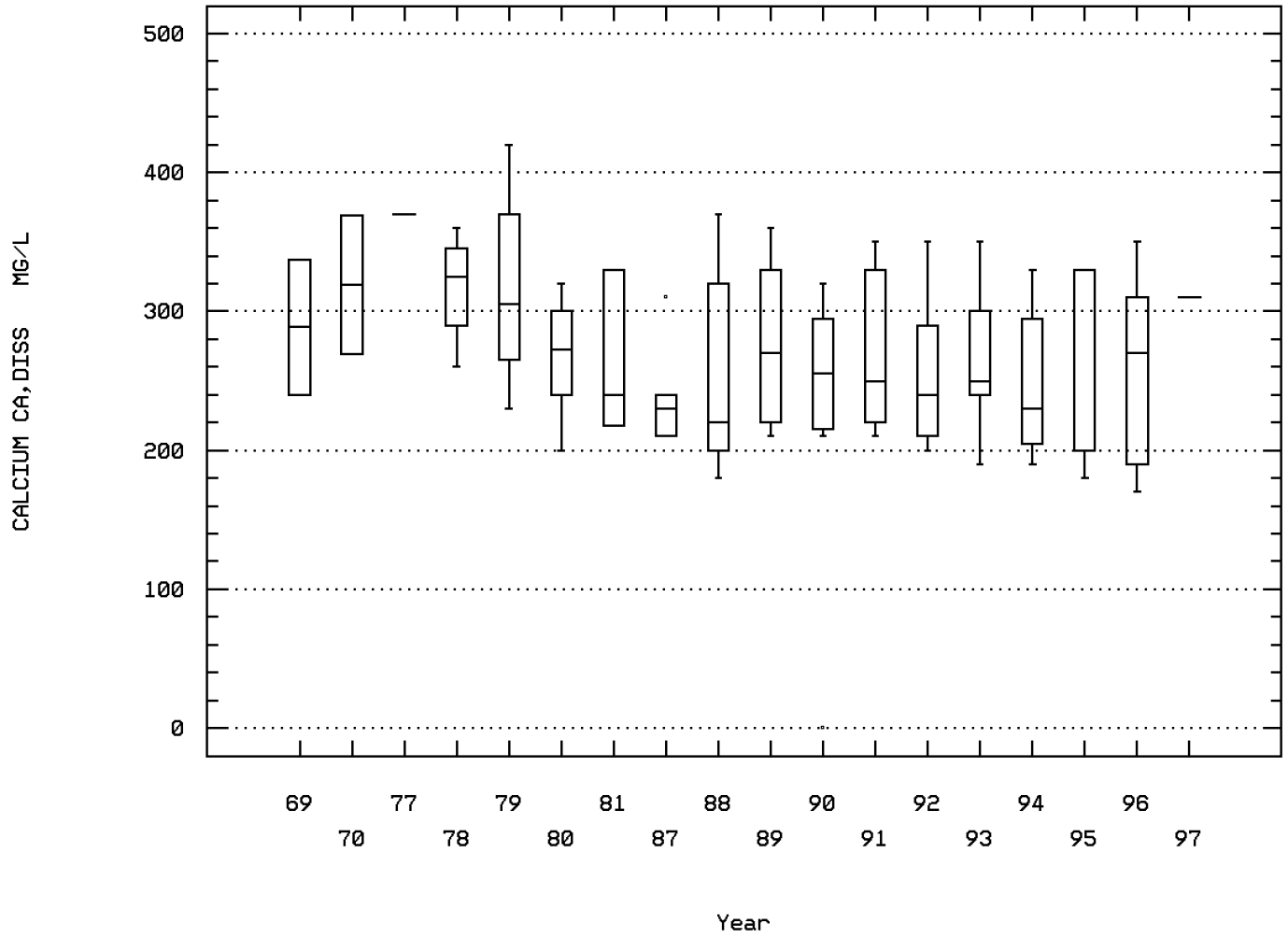
MCELMO CREEK NEAR COLORADO-UTAH STATE L



MCELMO CREEK NEAR COLORADO-UTAH STATE L

Station: HOVE0044 Parameter Code: 00915

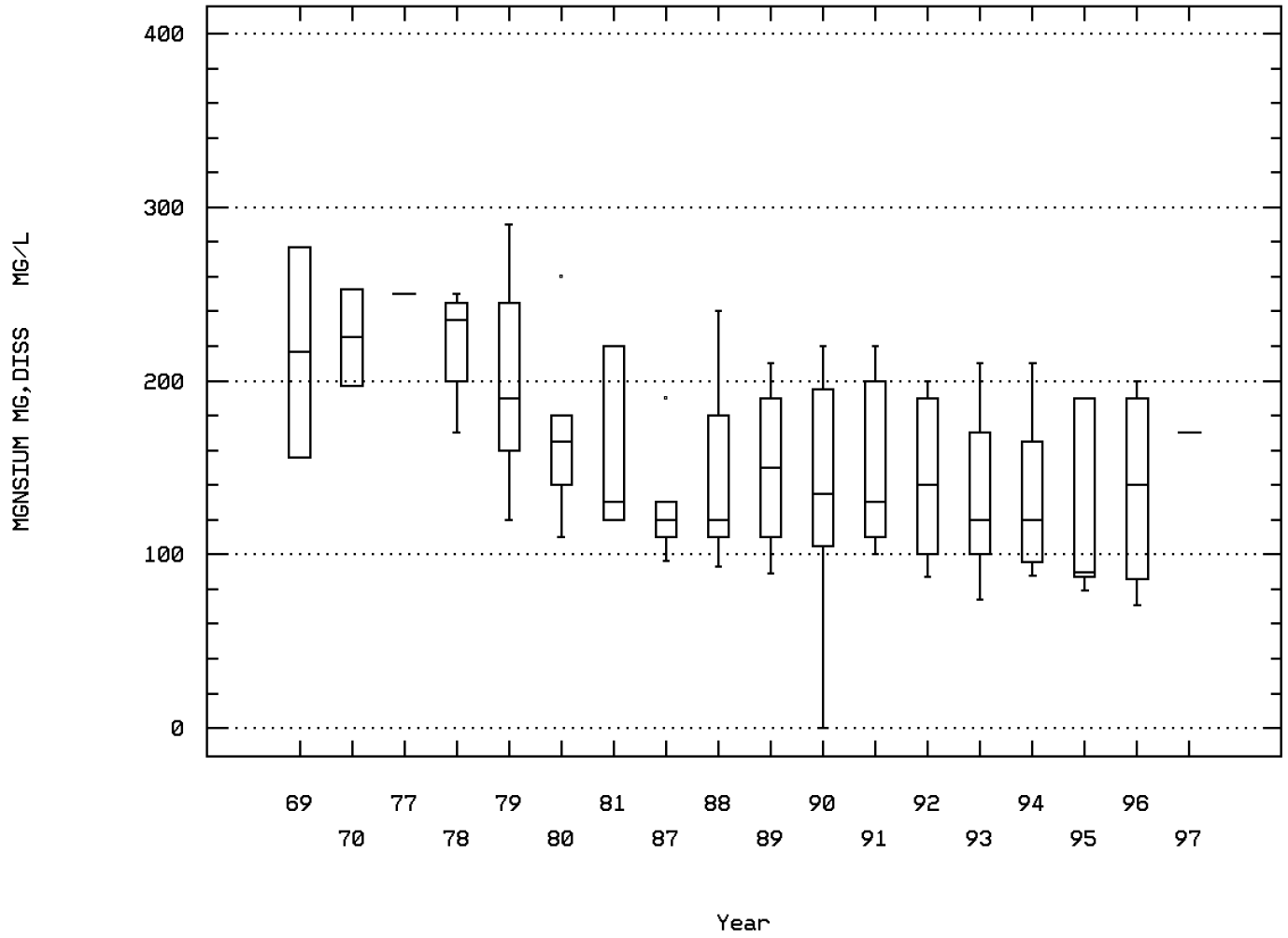
CALCIUM, DISSOLVED (MG/L AS CA)



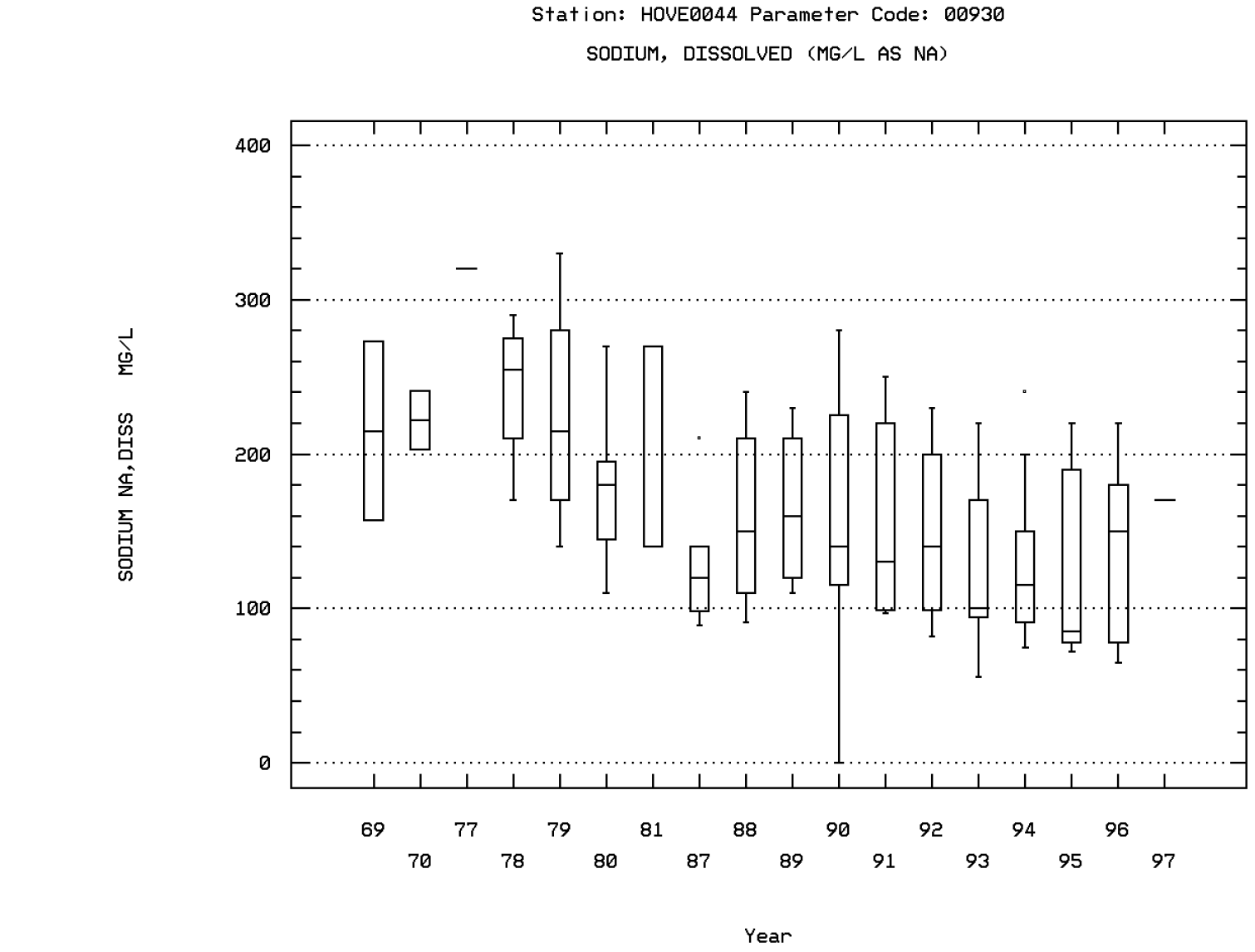
MCELMO CREEK NEAR COLORADO-UTAH STATE L

Station: HOVE0044 Parameter Code: 00925

MAGNESIUM, DISSOLVED (MG/L AS MG)



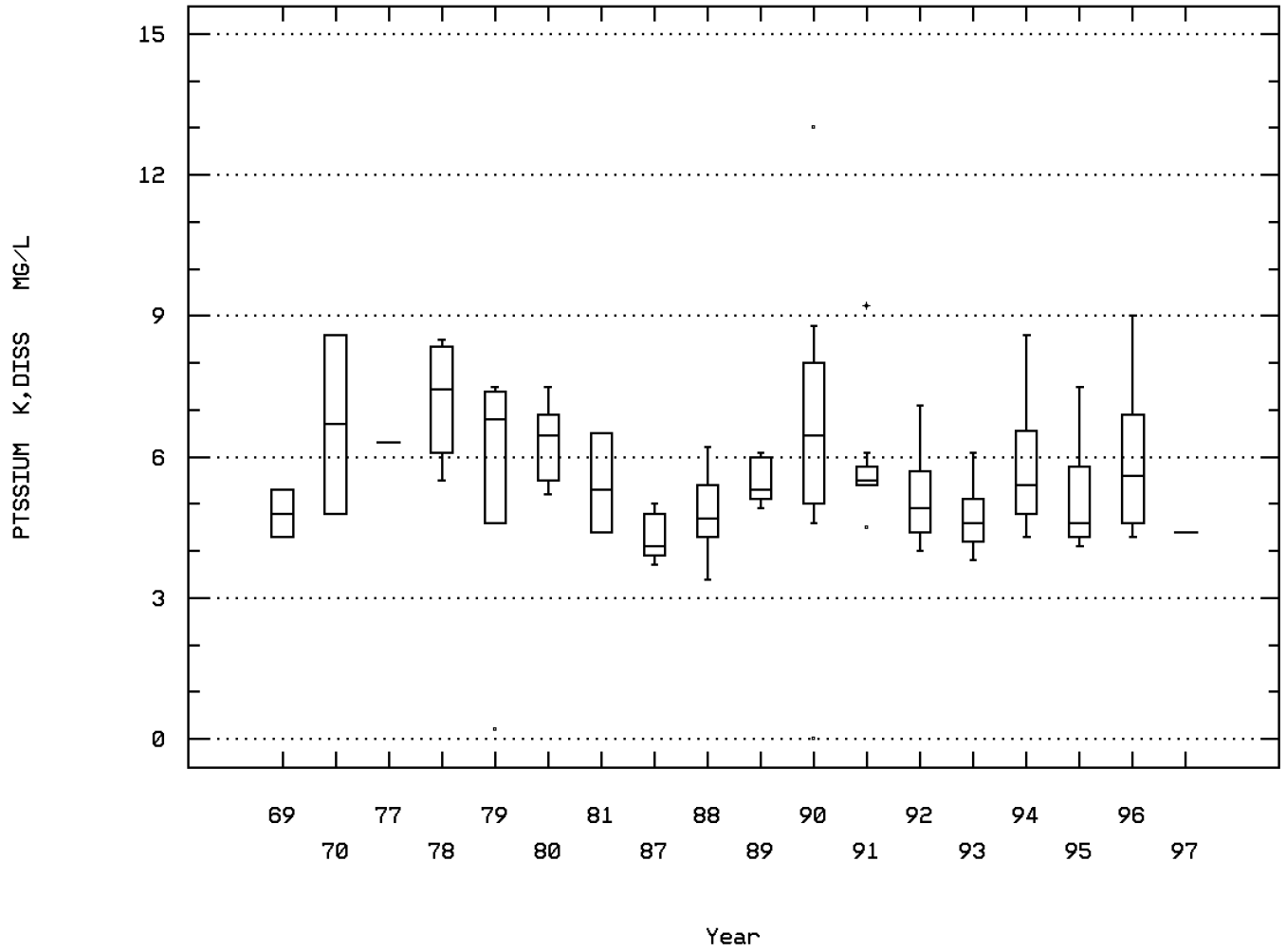
MCELMO CREEK NEAR COLORADO-UTAH STATE L



MCELMO CREEK NEAR COLORADO-UTAH STATE L

Station: HOVE0044 Parameter Code: 00935

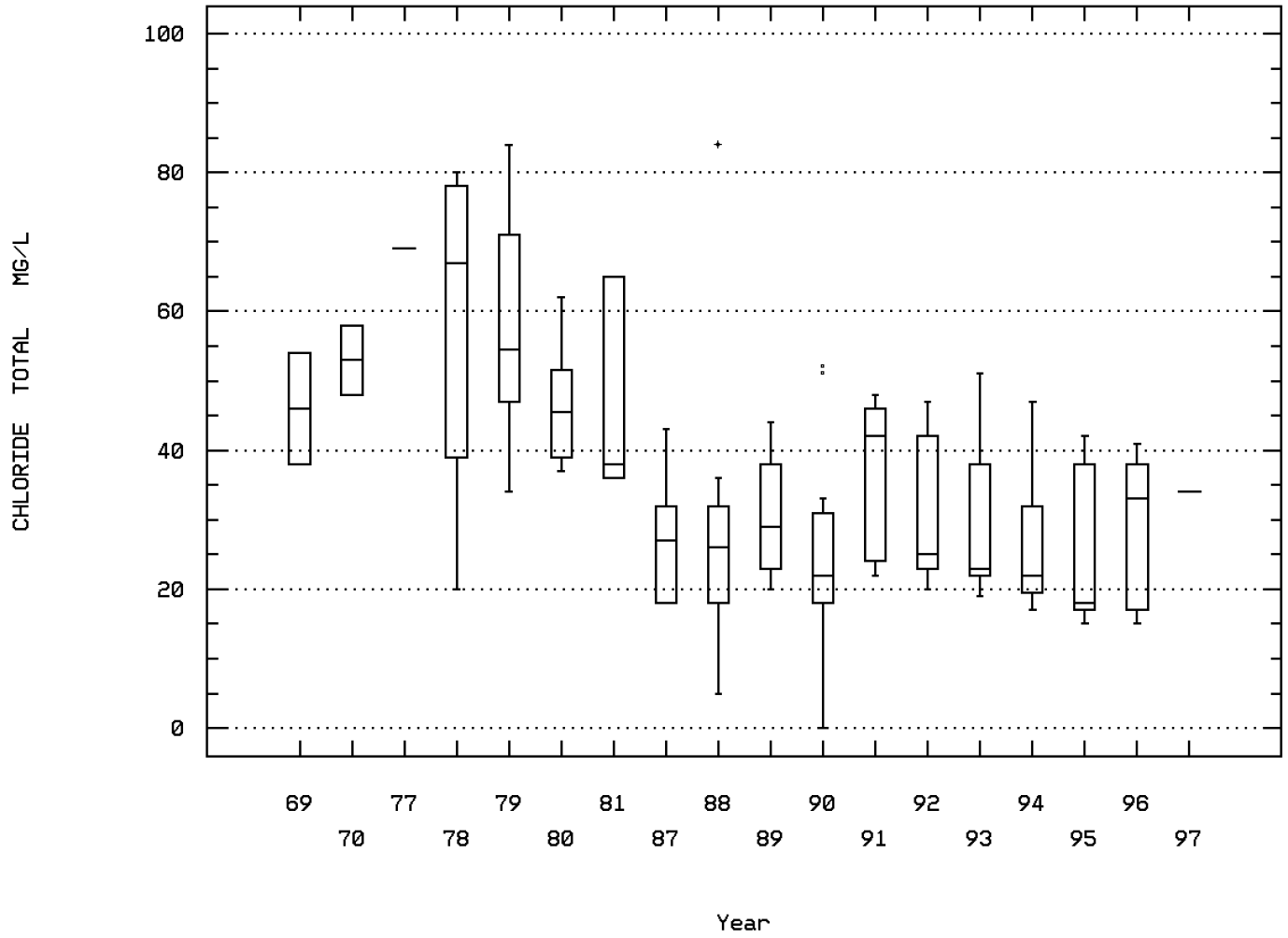
POTASSIUM, DISSOLVED (MG/L AS K)



MCELMO CREEK NEAR COLORADO-UTAH STATE L

Station: HOVE0044 Parameter Code: 00940

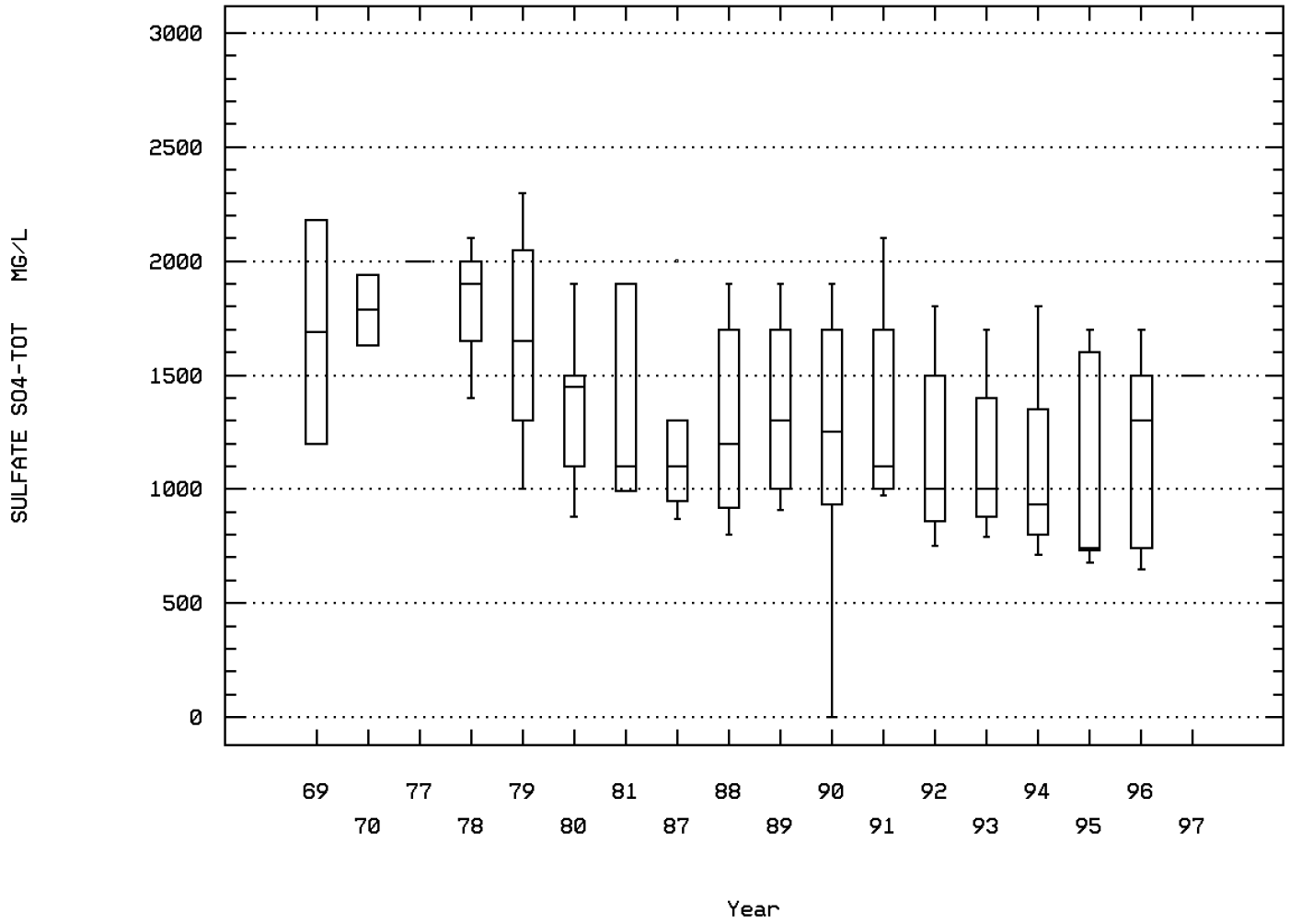
CHLORIDE,TOTAL IN WATER



MCELMO CREEK NEAR COLORADO-UTAH STATE L

Station: HOVE0044 Parameter Code: 00945

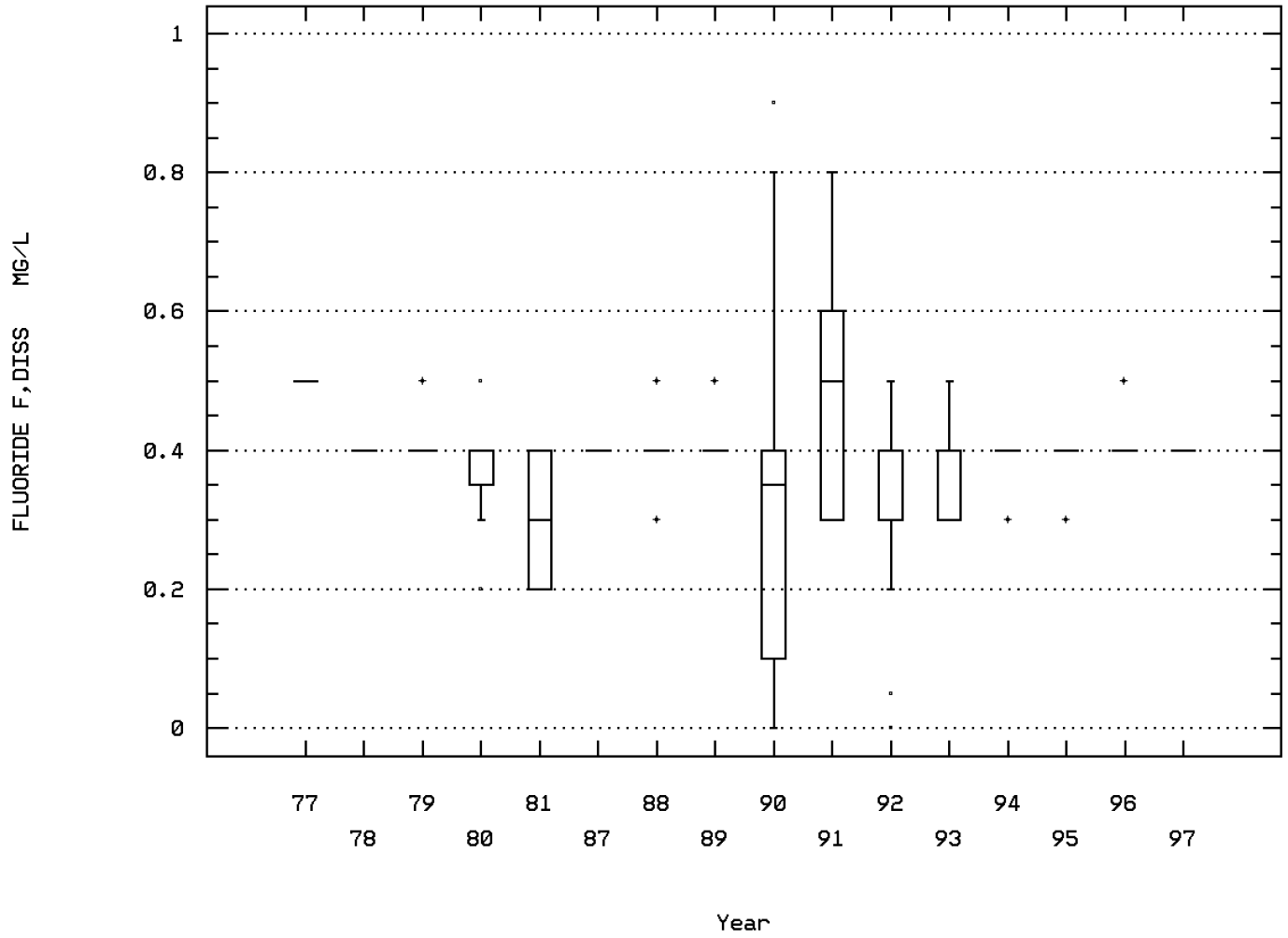
SULFATE, TOTAL (MG/L AS SO4)



MCELMO CREEK NEAR COLORADO-UTAH STATE L

Station: HOVE0044 Parameter Code: 00950

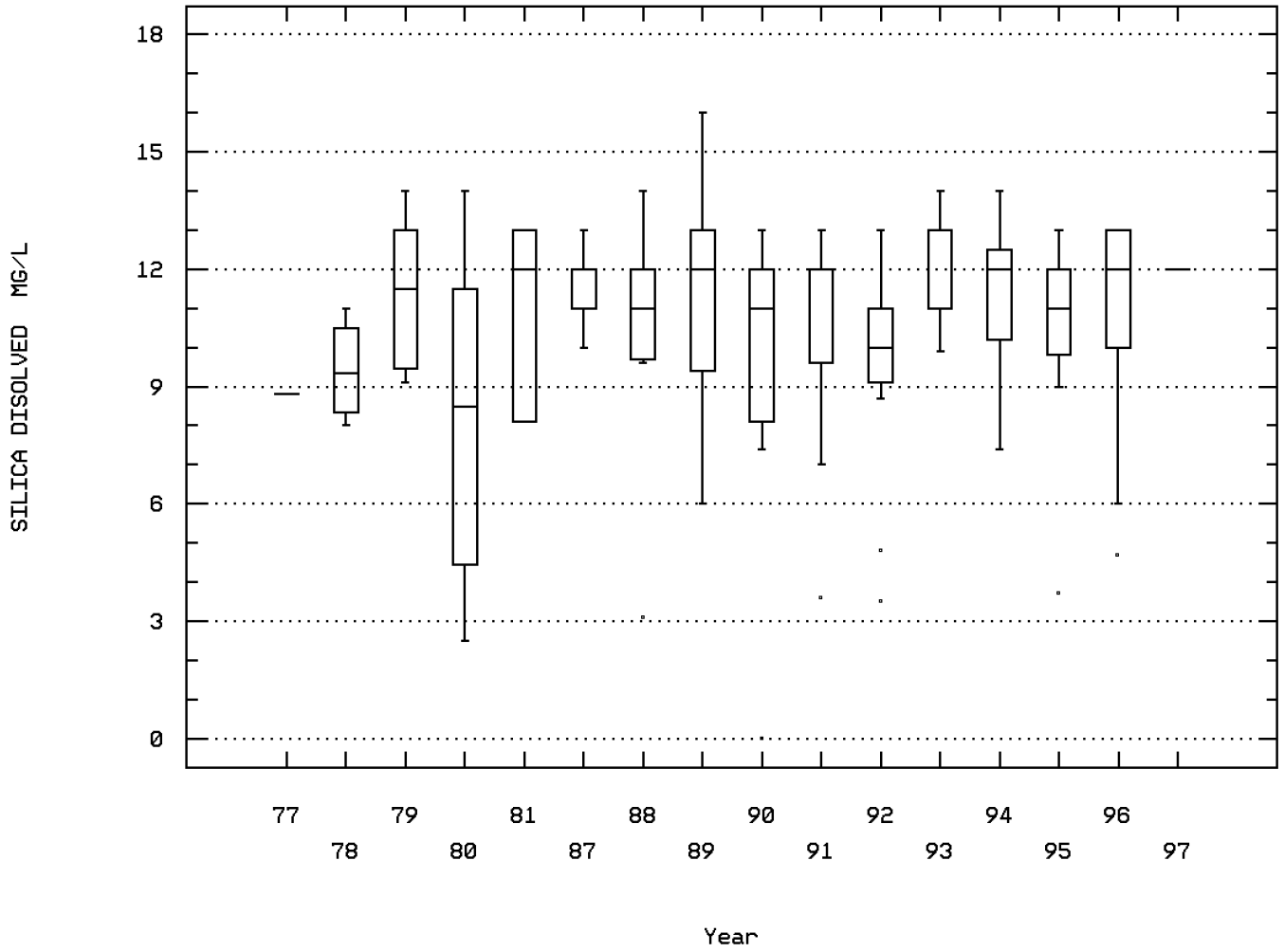
FLUORIDE, DISSOLVED (MG/L AS F)



MCELMO CREEK NEAR COLORADO-UTAH STATE L

Station: HOVE0044 Parameter Code: 00955

SILICA, DISSOLVED (MG/L AS SI02)



MCELMO CREEK NEAR COLORADO-UTAH STATE L

Seasonal Analysis for Season #1: 7/01 to 10/15 - Station HOVE0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	08/27/87-03/10/97	36	25.	25.417	30.	21.	4.136	2.034	22.7	24.	26.75	28.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/60-03/10/97	124	19.85	19.16	28.	8.	15.28	3.909	13.25	17.	21.575	23.75
00061	FLOW, STREAM, INSTANTANEOUS CFS	12/27/77-03/10/97	52	75.	104.019	689.	33.	10204.686	101.018	45.3	56.5	106.25	195.6
00065	STAGE, STREAM (FEET)	08/27/87-03/10/97	38	3.18	3.245	4.21	2.88	0.083	0.288	2.98	3.058	3.343	3.73
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/27/69-03/10/97	65	1900.	2024.569	4500.	1400.	290780.718	539.241	1618.	1730.	2065.	2658.
00400p	PH (STANDARD UNITS)	08/27/69-03/10/97	43	8.2	8.137	8.7	6.9	0.11	0.332	7.64	8.1	8.3	8.5
00400p	CONVERTED PH (STANDARD UNITS)	08/27/69-03/10/97	43	8.2	7.944	8.7	6.9	0.148	0.385	7.64	8.1	8.3	8.5
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/27/69-03/10/97	43	0.006	0.011	0.126	0.002	0.	0.02	0.003	0.005	0.008	0.023
00403p	PH, LAB, STANDARD UNITS SU	10/07/80-01/24/97	40	7.9	7.915	8.2	7.4	0.023	0.151	7.71	7.9	8.	8.1
00403p	CONVERTED PH, LAB, STANDARD UNITS	10/07/80-01/24/97	40	7.9	7.886	8.2	7.4	0.024	0.154	7.71	7.9	8.	8.1
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/07/80-01/24/97	40	0.013	0.013	0.04	0.006	0.	0.006	0.008	0.01	0.013	0.02
00681p	CARBON, DISSOLVED ORGANIC (MG/L AS C)	01/30/78-05/09/90	3	11.	9.933	11.	7.8	3.413	1.848	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/27/69-01/24/97	42	210.	213.333	270.	170.	491.057	22.16	190.	200.	222.5	240.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/27/69-01/24/97	42	99.5	101.571	160.	71.	397.714	19.943	80.6	88.	110.	127.
00930p	SODIUM, DISSOLVED (MG/L AS NA)	08/27/69-01/24/97	42	95.5	99.643	180.	56.	682.04	26.116	73.6	81.75	110.	140.
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	08/27/69-01/24/97	42	5.1	5.15	8.6	3.4	1.117	1.057	4.13	4.3	5.525	6.93
00940p	CHLORIDE,TOTAL IN WATER MG/L	08/27/69-01/24/97	42	20.	21.857	42.	15.	41.735	6.46	17.	18.	23.	35.3
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/27/69-01/24/97	42	875.	891.667	1500.	650.	31682.52	177.996	716.	747.5	970.	1170.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	12/27/77-01/24/97	40	0.4	0.361	0.5	0.05	0.006	0.079	0.3	0.3	0.4	0.4
00955p	SILICA, DISSOLVED (MG/L AS SI02)	12/27/77-01/24/97	41	12.	11.798	16.	5.	4.188	2.047	9.62	11.	13.	13.8

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

Seasonal Analysis for Season #2: 10/16 to 12/31 - Station HOVE0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	08/27/87-03/10/97	15	24.	24.6	29.	21.	5.114	2.261	21.6	23.	26.	28.4
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/60-03/10/97	61	3.	4.42	14.	0.	15.27	3.908	0.	1.	7.5	10.
00061	FLOW, STREAM, INSTANTANEOUS CFS	12/27/77-03/10/97	32	46.	52.125	150.	11.	698.371	26.427	25.3	35.75	61.75	87.7
00065	STAGE, STREAM (FEET)	08/27/87-03/10/97	19	3.	3.061	3.74	2.69	0.053	0.231	2.78	2.93	3.2	3.29
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/27/69-03/10/97	40	2890.	2796.85	3900.	1720.	295915.874	543.982	2121.	2400.	3207.5	3518.
00400p	PH (STANDARD UNITS)	08/27/69-03/10/97	26	8.185	8.178	9.	7.5	0.074	0.273	7.87	8.	8.355	8.4
00400p	CONVERTED PH (STANDARD UNITS)	08/27/69-03/10/97	26	8.185	8.097	9.	7.5	0.081	0.285	7.87	8.	8.355	8.4
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/27/69-03/10/97	26	0.007	0.008	0.032	0.001	0.	0.006	0.004	0.004	0.01	0.014
00403p	PH, LAB, STANDARD UNITS SU	10/07/80-01/24/97	20	7.8	7.805	8.2	7.6	0.024	0.154	7.6	7.7	7.9	8.
00403p	CONVERTED PH, LAB, STANDARD UNITS	10/07/80-01/24/97	20	7.8	7.781	8.2	7.6	0.024	0.156	7.6	7.7	7.9	8.
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/07/80-01/24/97	20	0.016	0.017	0.025	0.006	0.	0.005	0.01	0.013	0.02	0.025
00681p	CARBON, DISSOLVED ORGANIC (MG/L AS C)	01/30/78-05/09/90	4	15.	15.	20.	10.	19.333	4.397	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/27/69-01/24/97	25	320.	308.28	370.	230.	1689.793	41.107	246.	280.	343.5	360.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/27/69-01/24/97	25	180.	178.68	277.	120.	1627.727	40.345	126.	145.	200.	238.
00930p	SODIUM, DISSOLVED (MG/L AS NA)	08/27/69-01/24/97	25	190.	186.04	320.	98.	2944.207	54.261	120.	145.	215.	265.2
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	08/27/69-01/24/97	25	5.	5.464	8.5	3.7	1.682	1.297	3.98	4.45	6.55	7.44
00940p	CHLORIDE,TOTAL IN WATER MG/L	08/27/69-01/24/97	25	38.	41.08	80.	23.	207.243	14.396	25.4	30.	49.5	65.4
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/27/69-01/24/97	25	1600.	1538.64	2180.	1000.	107652.907	328.105	1060.	1300.	1750.	2000.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	12/27/77-01/24/97	24	0.4	0.369	0.6	0.	0.019	0.138	0.075	0.4	0.4	0.5
00955p	SILICA, DISSOLVED (MG/L AS SI02)	12/27/77-01/24/97	24	11.	10.858	13.	7.7	2.096	1.448	8.85	9.65	12.	13.

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

Seasonal Analysis for Season #3: 1/01 to 3/15 - Station HOVE0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	08/27/87-03/10/97	20	25.5	25.	28.	14.	10.105	3.179	20.3	25.	27.	27.9
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/60-03/10/97	60	2.	3.092	10.	0.	9.428	3.07	0.	0.	5.5	7.45
00061	FLOW, STREAM, INSTANTANEOUS CFS	12/27/77-03/10/97	32	39.5	54.813	161.	11.	1418.48	37.663	23.3	26.25	83.5	103.7

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

Seasonal Analysis for Season #3: 1/01 to 3/15 - Station HOVE0044

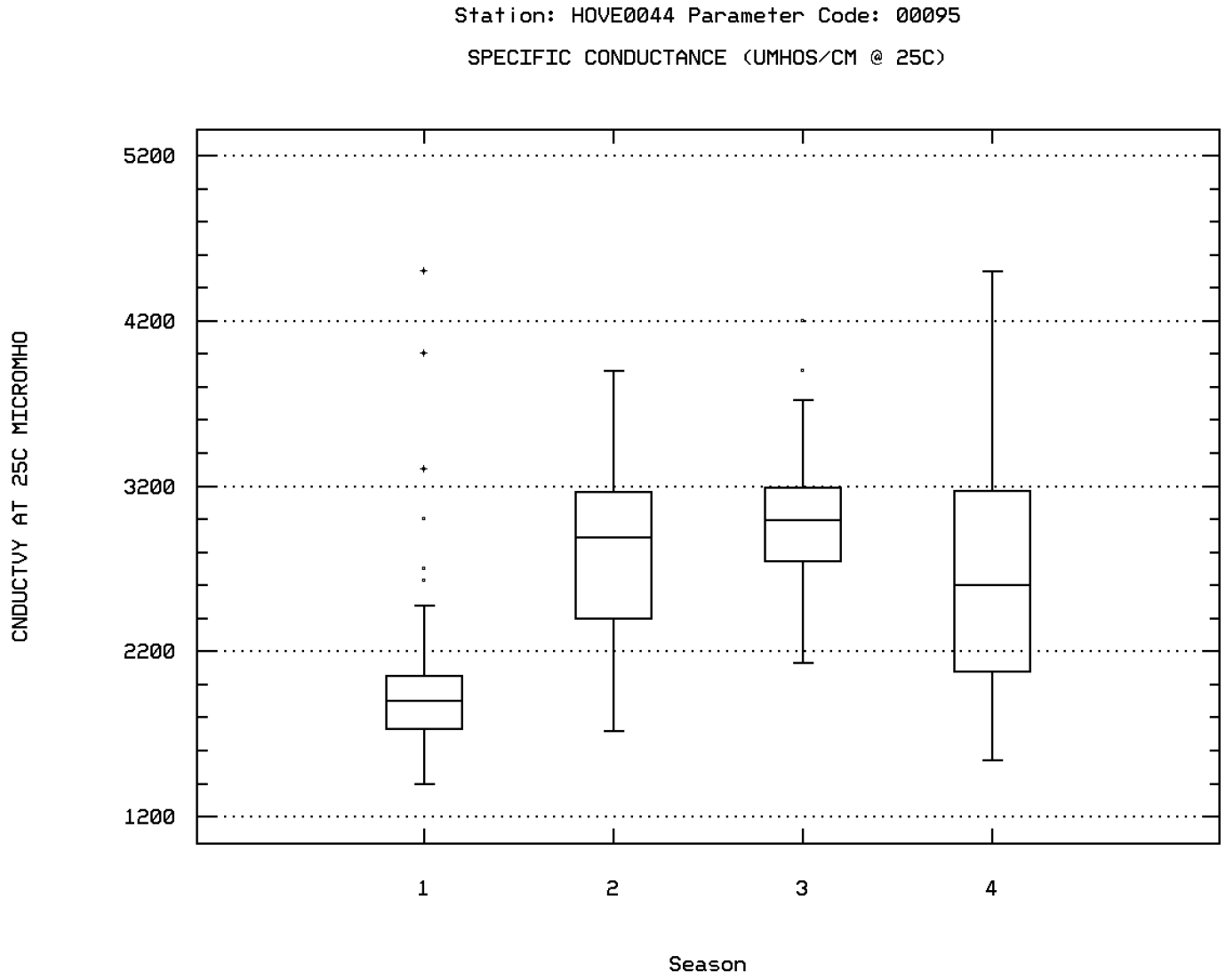
Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00065	STAGE, STREAM (FEET)	08/27/87-03/10/97	21	3.02	3.058	3.72	2.63	0.081	0.285	2.774	2.815	3.32	3.412
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/27/69-03/10/97	40	2995.	2994.375	4200.	2130.	188386.138	434.035	2432.	2742.5	3190.	3500.
00400p	PH (STANDARD UNITS)	08/27/69-03/10/97	27	8.3	8.228	8.6	7.5	0.06	0.244	7.86	8.1	8.4	8.44
00400p	CONVERTED PH (STANDARD UNITS)	08/27/69-03/10/97	27	8.3	8.145	8.6	7.5	0.067	0.258	7.86	8.1	8.4	8.44
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/27/69-03/10/97	27	0.005	0.007	0.032	0.003	0.	0.006	0.004	0.004	0.008	0.014
00403p	PH, LAB, STANDARD UNITS SU	10/07/80-01/24/97	21	7.8	7.857	8.2	7.7	0.025	0.157	7.7	7.7	8.	8.1
00403p	CONVERTED PH, LAB, STANDARD UNITS	10/07/80-01/24/97	21	7.8	7.832	8.2	7.7	0.025	0.159	7.7	7.7	8.	8.1
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/07/80-01/24/97	21	0.016	0.015	0.02	0.006	0.	0.005	0.008	0.01	0.02	0.02
00681p	CARBON, DISSOLVED ORGANIC (MG/L AS C)	01/30/78-05/09/90	6	10.25	14.6	28.	8.5	69.3	8.325	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/27/69-01/24/97	26	320.	318.846	420.	220.	1690.615	41.117	260.	297.5	342.5	373.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/27/69-01/24/97	26	190.	200.	290.	120.	1320.	36.332	167.	177.5	212.5	263.
00930p	SODIUM, DISSOLVED (MG/L AS NA)	08/27/69-01/24/97	26	210.	215.769	330.	120.	2185.385	46.748	170.	187.5	235.	293.
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	08/27/69-01/24/97	25	5.5	5.812	9.	4.1	1.689	1.299	4.36	4.85	6.3	8.36
00940p	CHLORIDE,TOTAL IN WATER MG/L	08/27/69-01/24/97	26	42.	46.462	84.	20.	278.338	16.683	29.3	36.	53.5	80.5
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/27/69-01/24/97	26	1650.	1696.154	2300.	1000.	83584.615	289.11	1400.	1500.	1900.	2130.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	12/27/77-01/24/97	26	0.4	0.415	0.8	0.3	0.009	0.092	0.37	0.4	0.4	0.46
00955p	SILICA, DISSOLVED (MG/L AS SI02)	12/27/77-01/24/97	26	11.	10.6	14.	4.7	5.436	2.332	7.7	8.925	12.	14.

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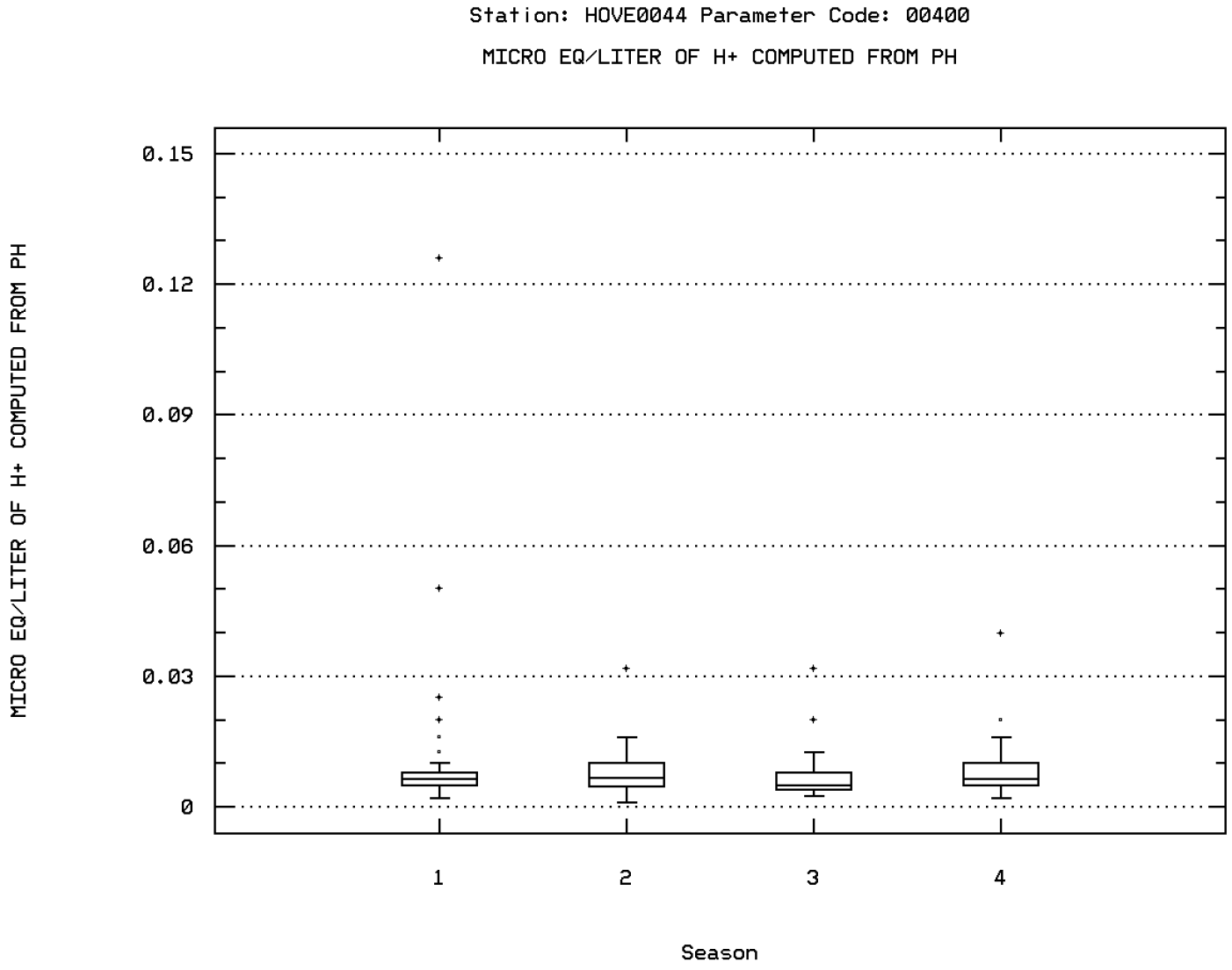
Seasonal Analysis for Season #4: 3/16 to 6/30 - Station HOVE0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	08/27/87-03/10/97	25	24.	22.28	30.	4.	28.627	5.35	14.4	21.5	25.	26.4
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/60-03/10/97	100	15.	14.515	27.	4.	21.159	4.6	8.	11.5	18.	20.
00061	FLOW, STREAM, INSTANTANEOUS CFS	12/27/77-03/10/97	43	41.	59.953	346.	3.	4015.95	63.372	10.4	26.	61.	120.8
00065	STAGE, STREAM (FEET)	08/27/87-03/10/97	27	2.88	2.888	4.86	1.39	0.328	0.573	2.418	2.71	3.02	3.432
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/27/69-03/10/97	55	2600.	2689.764	4500.	1540.	494067.147	702.899	1828.8	2080.	3170.	3540.
00400p	PH (STANDARD UNITS)	08/27/69-03/10/97	38	8.2	8.144	8.7	7.4	0.073	0.27	7.7	8.	8.325	8.41
00400p	CONVERTED PH (STANDARD UNITS)	08/27/69-03/10/97	38	8.2	8.053	8.7	7.4	0.081	0.285	7.7	8.	8.325	8.41
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/27/69-03/10/97	38	0.006	0.009	0.04	0.002	0.	0.007	0.004	0.005	0.01	0.02
00403p	PH, LAB, STANDARD UNITS SU	10/07/80-01/24/97	28	7.95	7.961	8.2	7.5	0.027	0.164	7.78	7.9	8.1	8.2
00403p	CONVERTED PH, LAB, STANDARD UNITS	10/07/80-01/24/97	28	7.947	7.927	8.2	7.5	0.028	0.168	7.78	7.9	8.1	8.2
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/07/80-01/24/97	28	0.011	0.012	0.032	0.006	0.	0.005	0.006	0.008	0.013	0.017
00681p	CARBON, DISSOLVED ORGANIC (MG/L AS C)	01/30/78-05/09/90	11	12.	11.836	23.	0.	31.055	5.573	1.84	10.	15.	21.6
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/27/69-01/24/97	40	260.	255.275	369.	0.	3693.794	60.777	200.	220.	300.	329.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/27/69-01/24/97	40	150.	155.025	253.	0.	2656.743	51.544	100.	120.	190.	220.
00930p	SODIUM, DISSOLVED (MG/L AS NA)	08/27/69-01/24/97	40	170.	168.725	280.	0.	3418.307	58.466	99.1	130.	220.	240.9
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	08/27/69-01/24/97	40	5.75	5.827	13.	0.	4.638	2.154	4.4	4.725	6.675	8.55
00940p	CHLORIDE,TOTAL IN WATER MG/L	08/27/69-01/24/97	40	35.	34.275	76.	0.	235.487	15.346	19.	23.	47.	50.9
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/27/69-01/24/97	40	1300.	1310.5	1940.	0.	182420.256	427.107	844.	992.5	1700.	1900.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	12/27/77-01/24/97	37	0.4	0.408	0.9	0.	0.022	0.148	0.2	0.4	0.45	0.5
00955p	SILICA, DISSOLVED (MG/L AS SI02)	12/27/77-01/24/97	37	9.9	8.995	13.	0.	12.466	3.531	3.42	6.7	12.	12.2

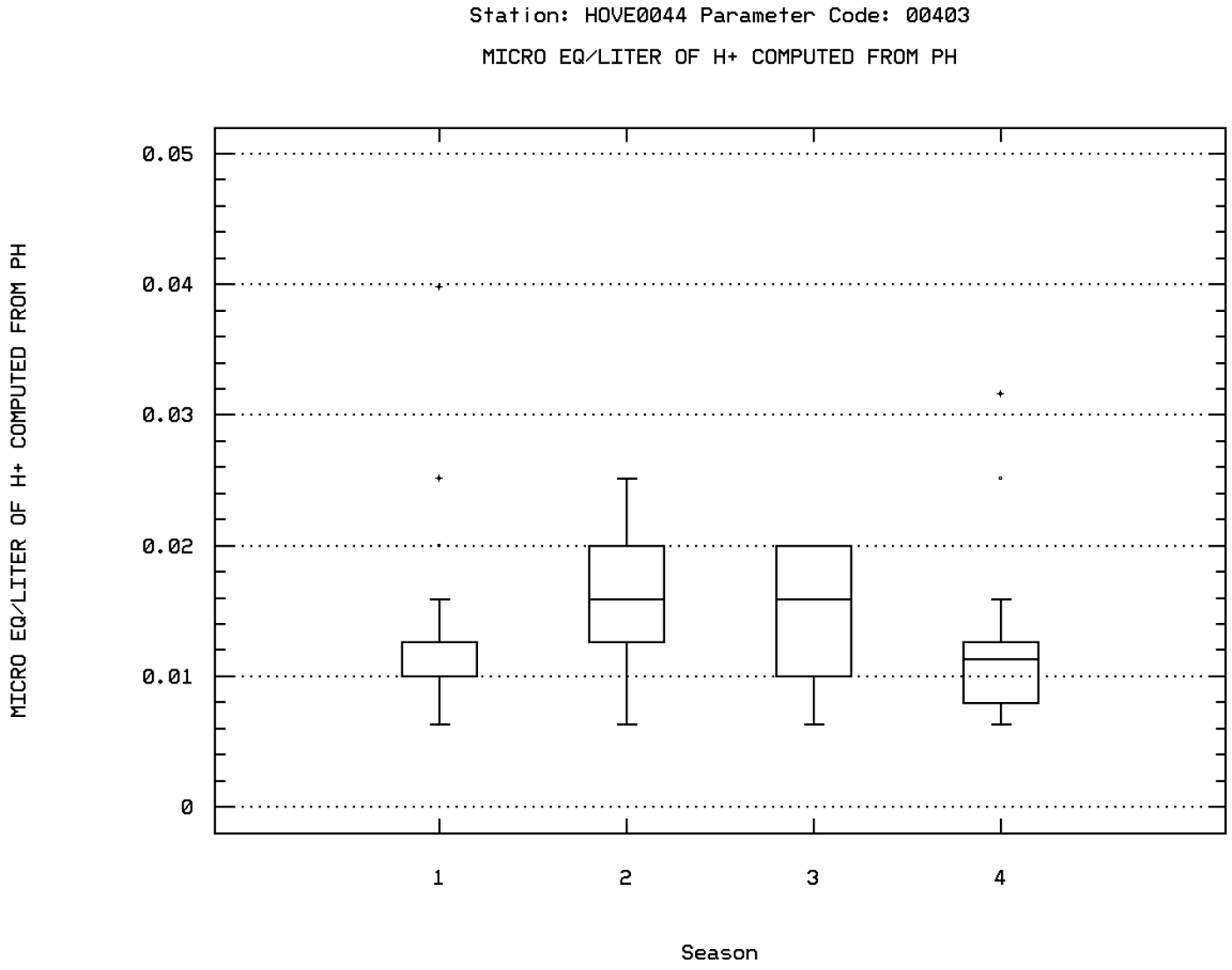
** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot



MCELMO CREEK NEAR COLORADO-UTAH STATE L



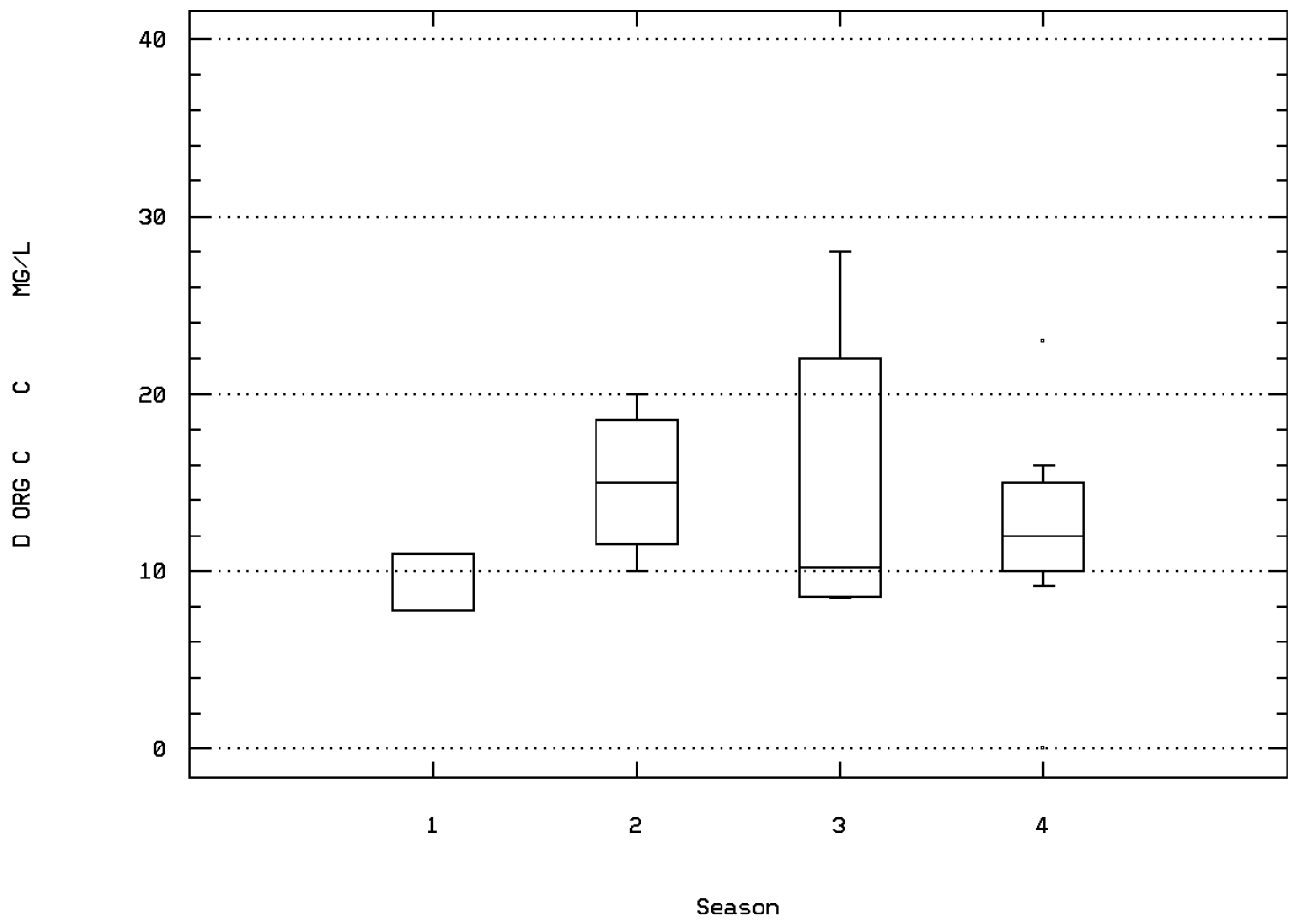
MCELMO CREEK NEAR COLORADO-UTAH STATE L



MCELMO CREEK NEAR COLORADO-UTAH STATE L

Station: HOVE0044 Parameter Code: 00681

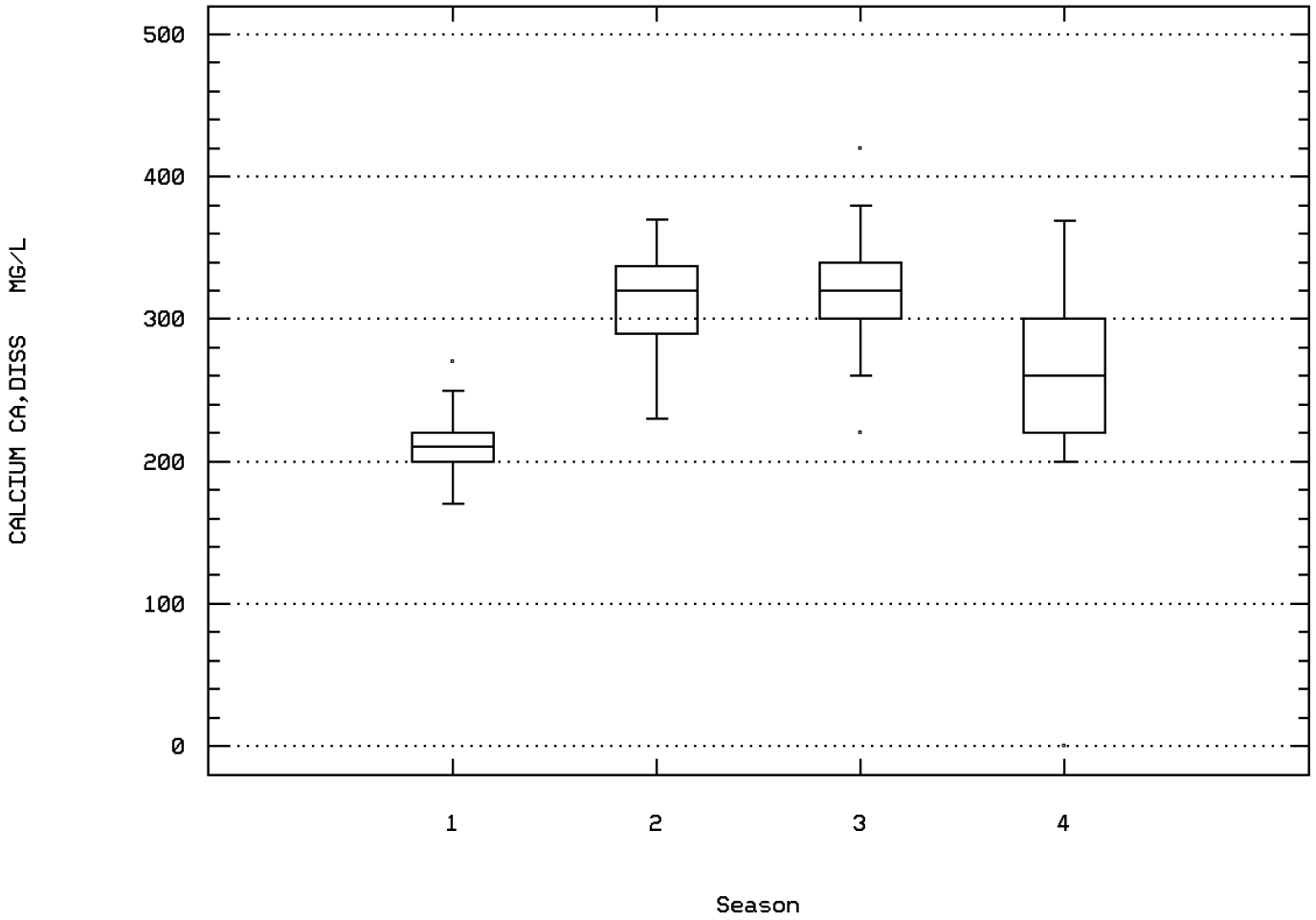
CARBON, DISSOLVED ORGANIC (MG/L AS C)



MCELMO CREEK NEAR COLORADO-UTAH STATE L

Station: HOVE0044 Parameter Code: 00915

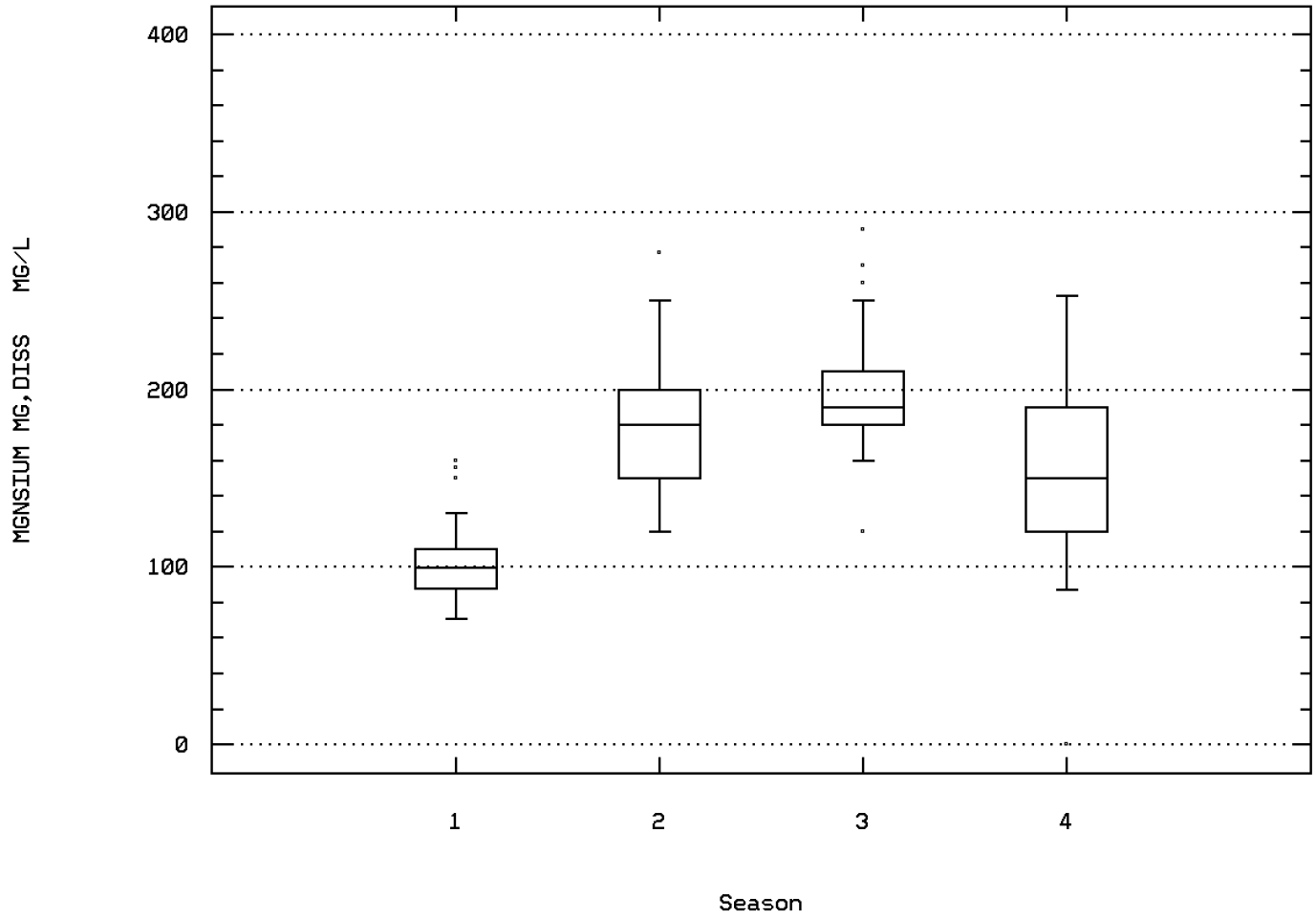
CALCIUM, DISSOLVED (MG/L AS CA)



MCELMO CREEK NEAR COLORADO-UTAH STATE L

Station: HOVE0044 Parameter Code: 00925

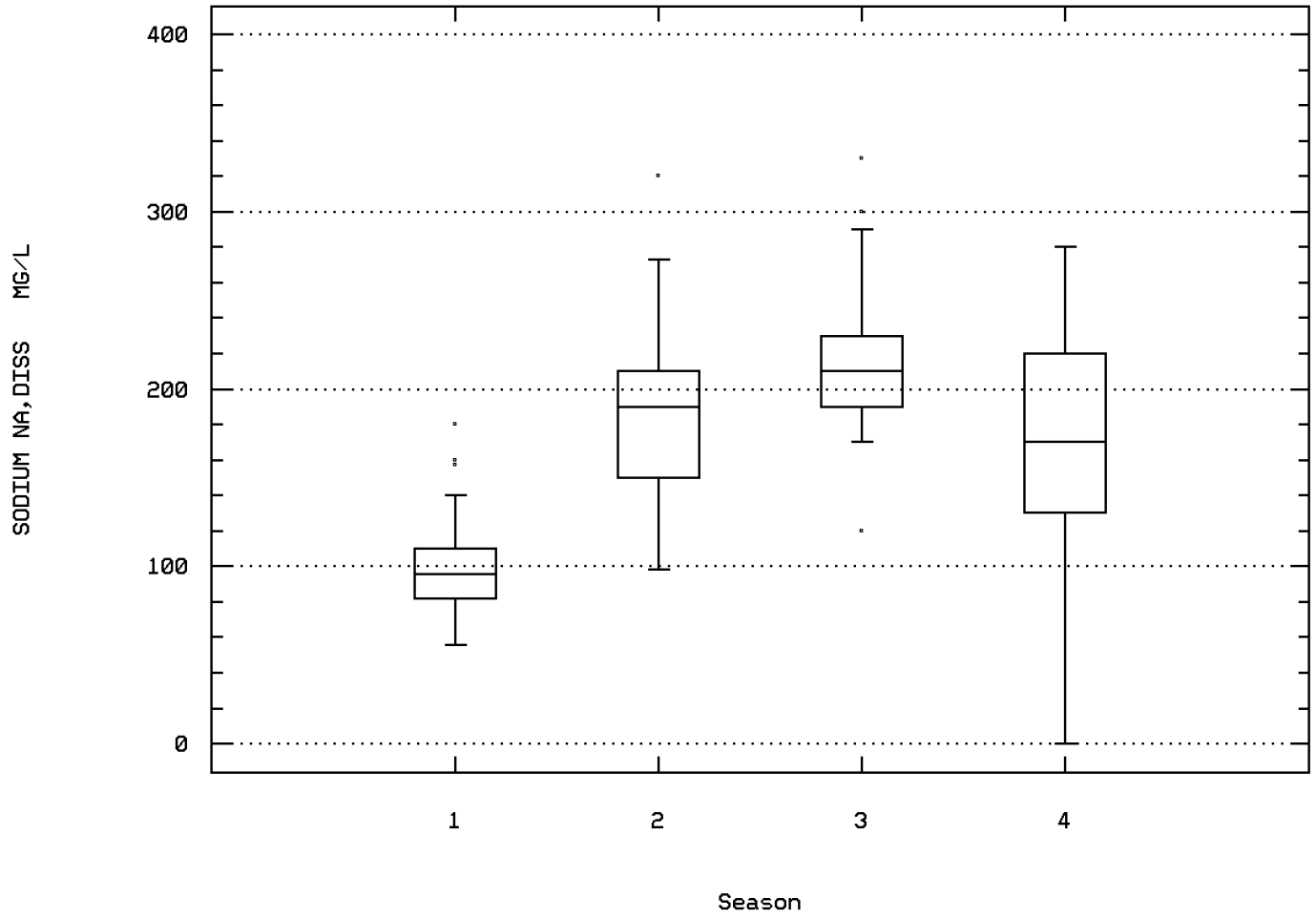
MAGNESIUM, DISSOLVED (MG/L AS MG)



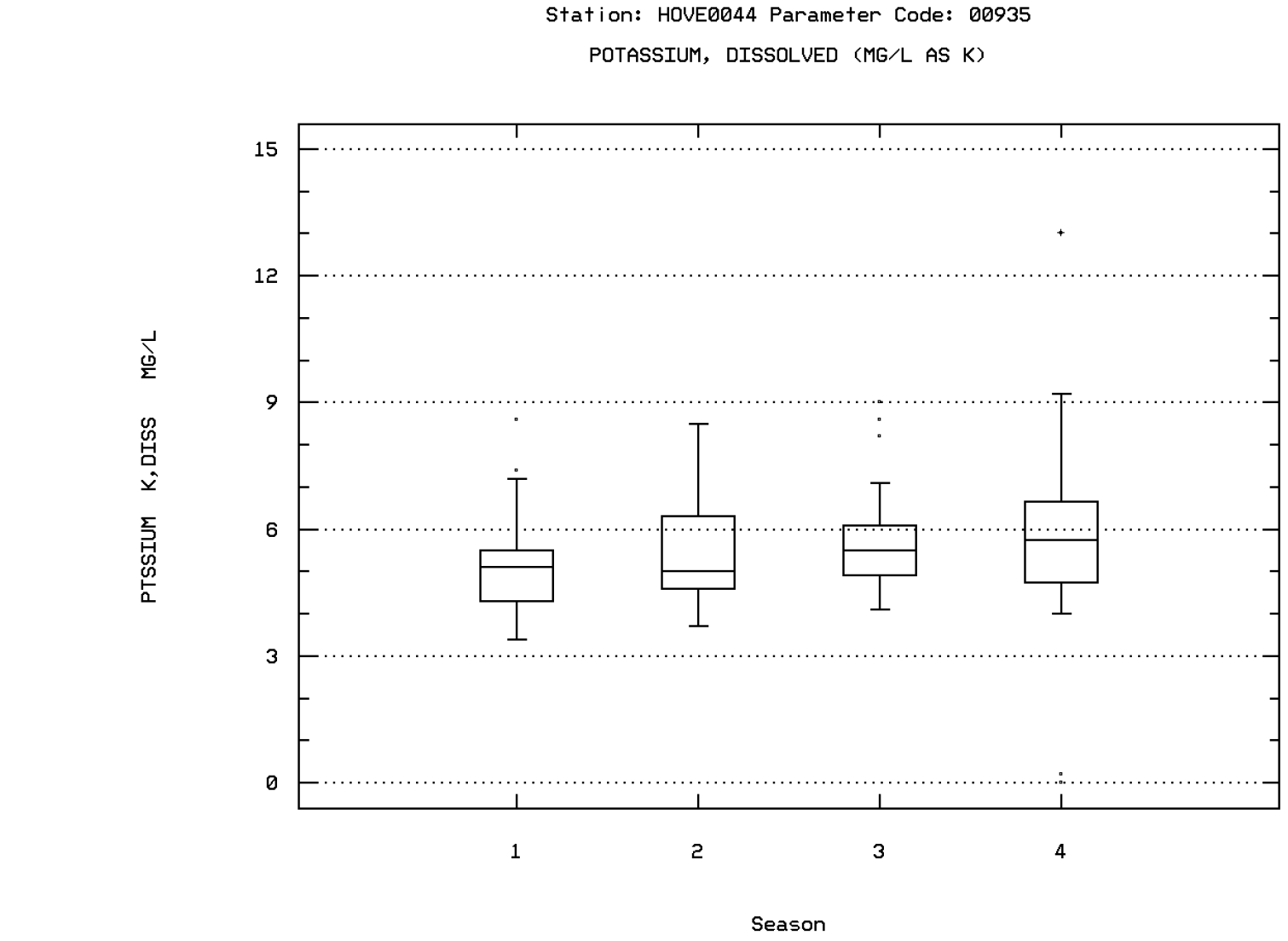
MCELMO CREEK NEAR COLORADO-UTAH STATE L

Station: HOVE0044 Parameter Code: 00930

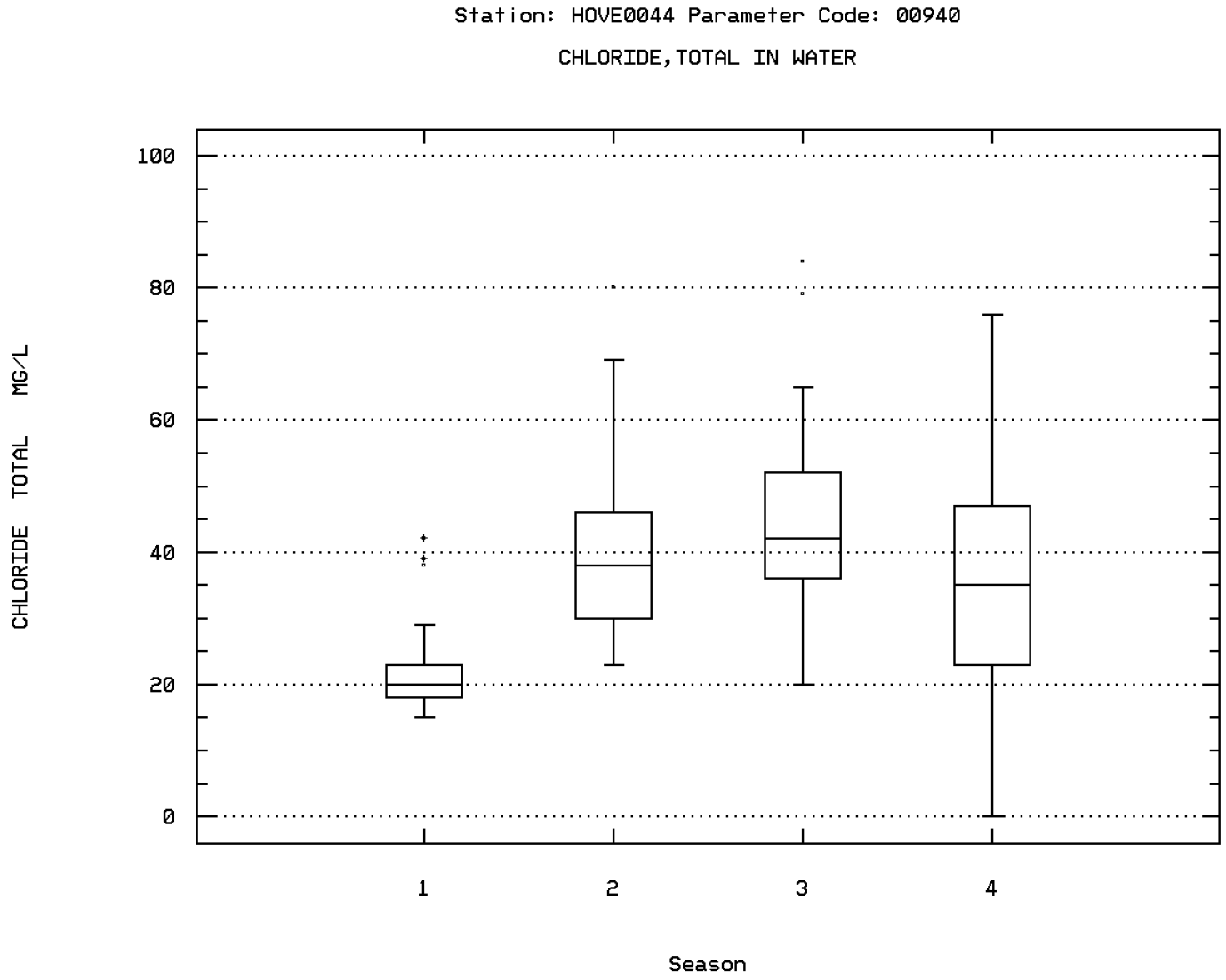
SODIUM, DISSOLVED (MG/L AS NA)



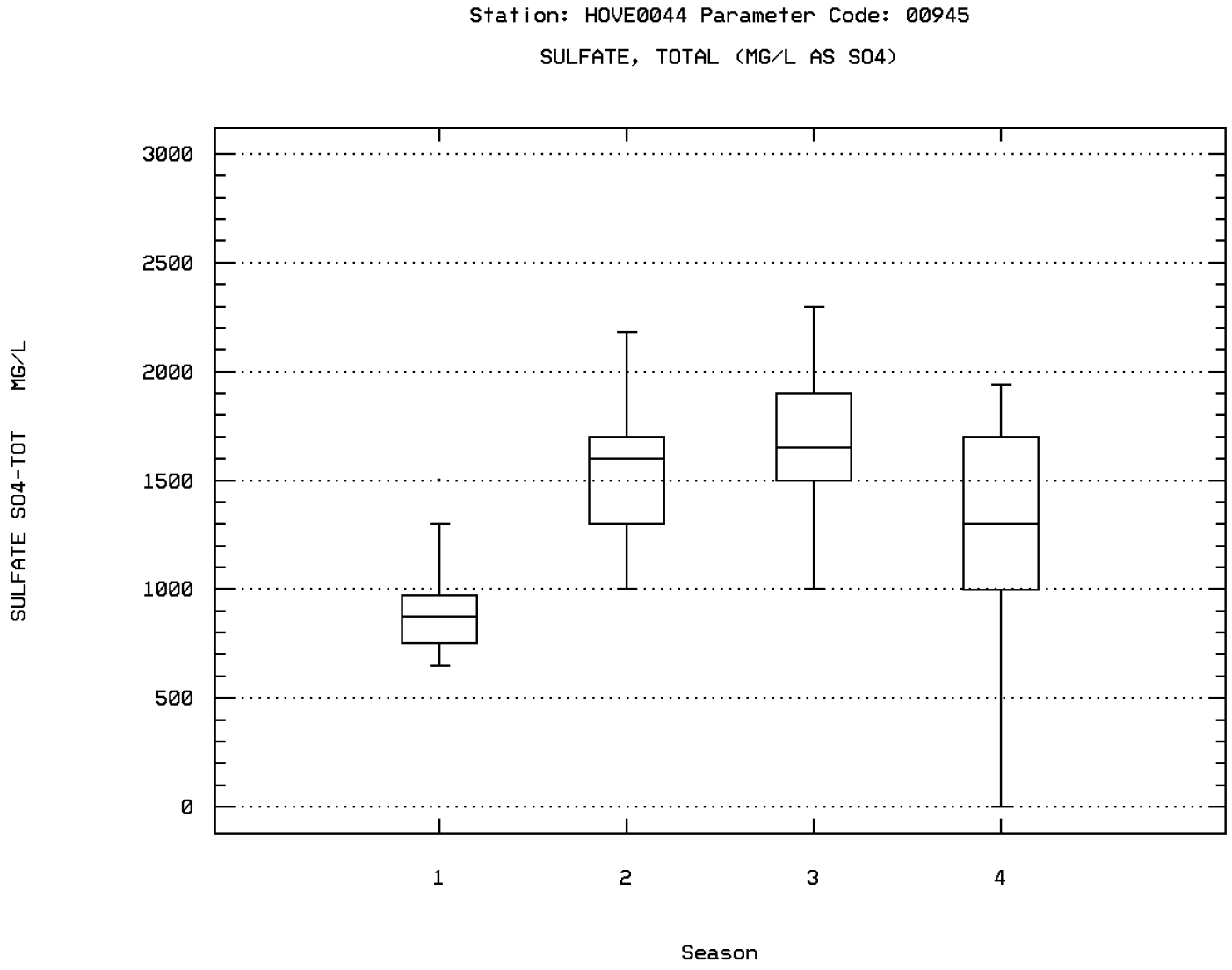
MCELMO CREEK NEAR COLORADO-UTAH STATE L



MCELMO CREEK NEAR COLORADO-UTAH STATE L



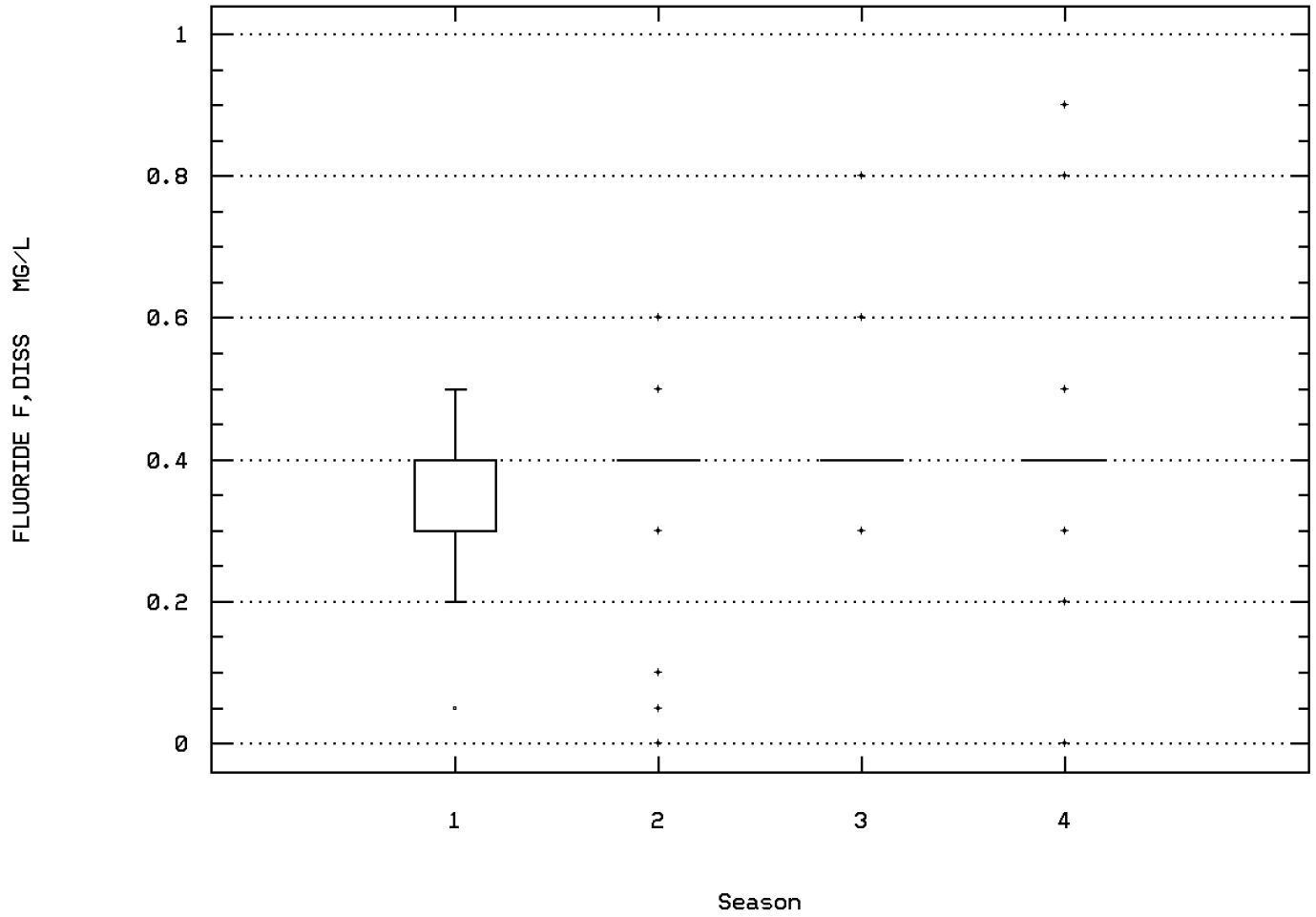
MCELMO CREEK NEAR COLORADO-UTAH STATE L



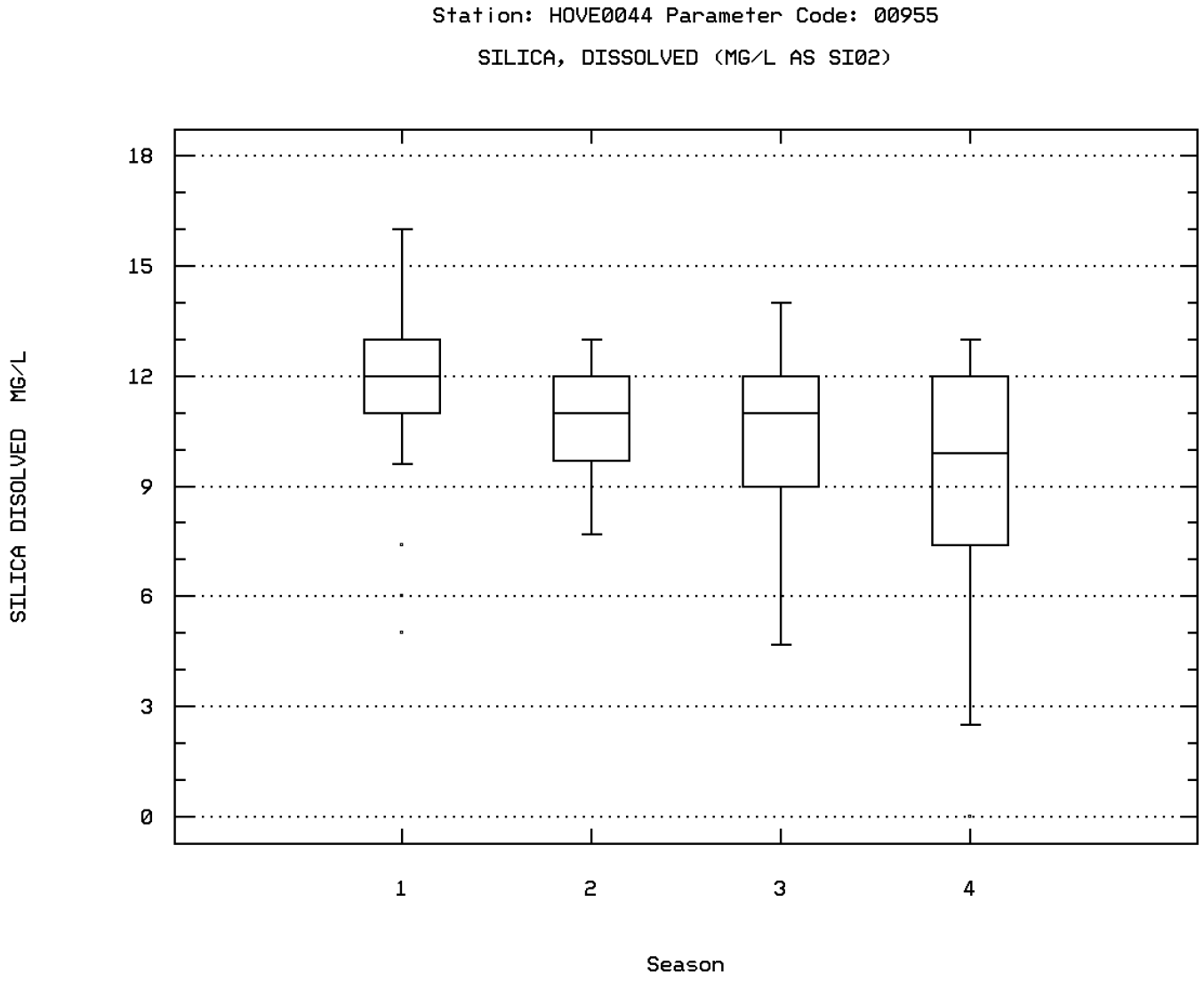
MCELMO CREEK NEAR COLORADO-UTAH STATE L

Station: HOVE0044 Parameter Code: 00950

FLUORIDE, DISSOLVED (MG/L AS F)



MCELMO CREEK NEAR COLORADO-UTAH STATE L



MCELMO CREEK NEAR COLORADO-UTAH STATE L

Station Inventory for Station: HOVE0045

NPS Station ID: HOVE0045
LAT/LON: 37.324170/-109.015004
Agency: 11USBRUC
Date Created: 05/15/82
Location: MCELMO CREEK AT STATELINE
FIPS State/County: 08083 COLORADO/MONTEZUMA
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): DRMC0000
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 14080202
Depth of Water: 0
Aquifer:
Major Basin: COLORADO RIVER
Elevation: 0
Water Body Id:
Minor Basin: MIDDLE COLORADO-SAN JUAN RIVER
ECO Region:
RF1 Index: 14080202004
RF1 Mile Point: 2.070
Distance from RF1: 4.10
On/Off RF1: OFF
RF3 Index: 14080202001403.04
RF3 Mile Point: 9.76
Distance from RF3: 0.36
On/Off RF3:
Description:

Parameter Inventory for Station: HOVE0045

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: HOVE0046

NPS Station ID: HOVE0046 LAT/LON: 37.324170/-109.015004 Agency: 11NPSWRD Date Created: 09/12/98
Location: MCELMO CREEK UPSTREAM OF YELLOW JACKET CANYON FIPS State/County: 08083 COLORADO/MONTEZUMA
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): HOVE_USGS_ME3 /09372000
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 14080202 Depth of Water: 0 Aquifer:
Major Basin: COLORADO RIVER Elevation: 0 Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER SAN JUAN RIVER ECO Region:
RF1 Index: 14080202 RF1 Mile Point: 0.000 Distance from RF1: 0.20 On/Off RF1:
RF3 Index: 14080203001600.00 RF3 Mile Point: 3.26 Distance from RF3: 0.11 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE WICKIUP CANYON CO-UT 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS LOCATED AT MCELMO CREEK UPSTREAM FROM YELLOW JACKET CANYON. THE SAMPLING SITE IS OUTSIDE OF THE HOVENWEEP NATIONAL MONUMENT BOUNDARY BUT IS WITHIN A 10 MILE RADIUS OF THE MONUMENT. THE DATA WERE COLLECTED BY THE U.S. GEOLOGICAL SURVEY IN COOPERATION WITH THE U.S. FISH AND WILDLIFE SERVICE; BUREAU OF RECLAMATION; AND BUREAU OF INDIAN AFFAIRS; AND ARE PRESENTED IN THE USGS WATER-RESOURCES INVESTIGATIONS REPORT NUMBER 94-4041. SELECT DATA FOR THIS SITE WERE PREVIOUSLY UPLOADED TO STORET BY THE USGS UNDER STATION ID 09372000. DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (970-225-3516).

Parameter Inventory for Station: HOVE0046

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/27/90-11/14/90	3	208.	203.333	252.	150.	2617.333	51.16	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	03/27/90-11/14/90	3	1300.	1296.667	1700.	890.	164033.333	405.01	**	**	**	**
00931	SODIUM ADSORPTION RATIO	03/27/90-11/14/90	3	2.	2.333	3.	2.	0.333	0.577	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	03/27/90-11/14/90	3	316.	562.333	1210.	161.	320610.333	566.225	**	**	**	**

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

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

Station Inventory for Station: HOVE0047

NPS Station ID: HOVE0047
LAT/LON: 37.408226/-109.024115
Agency: 11NPSWRD
Date Created: 03/20/99
Location: HACKBERRY HOUSE
FIPS State/County: 08083 COLORADO/MONTEZUMA
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): HOVE_NPS_HACK
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 14080202
Depth of Water: 0
Aquifer:
Major Basin: COLORADO RIVER
Elevation: 0
Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER-SAN JUAN RIVER
ECO Region:
RF1 Index: 14080202
RF1 Mile Point: 0.000
Distance from RF1: 0.20
On/Off RF1:
RF3 Index: 14080203001600.00
RF3 Mile Point: 3.26
Distance from RF3: 0.11
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE RUIN POINT UT 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS A SPRING LOCATED AT HACKBERRY HOUSE AND IS WITHIN THE BOUNDARIES OF HOVENWEEP NATIONAL MONUMENT (HOVE). DATA WERE COLLECTED AS PART OF THE REGULAR MONITORING OF HOVE WATER SITES AND WERE ANALYZED BY THE COLORADO STATE UNIVERSITY SOIL; WATER; AND PLANT TESTING LABORATORY; FORT COLLINS CO. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT HOVENWEEP NATIONAL MONUMENT; MCELMO ROUTE; CORTEZ CO 81321-8901 (TEL. 970-529-4461). DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: HOVE0047

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/14/94-09/14/94	1	900.	900.	900.	900.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	09/14/94-09/14/94	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/14/94-09/14/94	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/14/94-09/14/94	1	0.013	0.013	0.013	0.013	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/14/94-09/14/94	1	171.	171.	171.	171.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	09/14/94-09/14/94	1	208.	208.	208.	208.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	09/14/94-09/14/94	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	09/14/94-09/14/94	1	17.9	17.9	17.9	17.9	0.	0.	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	09/14/94-09/14/94	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/14/94-09/14/94	1	319.	319.	319.	319.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/14/94-09/14/94	1	99.	99.	99.	99.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/14/94-09/14/94	1	17.6	17.6	17.6	17.6	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/14/94-09/14/94	1	58.4	58.4	58.4	58.4	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/14/94-09/14/94	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	09/14/94-09/14/94	1	63.	63.	63.	63.	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	09/14/94-09/14/94	1	123.1	123.1	123.1	123.1	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	09/14/94-09/14/94	1	110.	110.	110.	110.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	09/14/94-09/14/94	1	80.	80.	80.	80.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/14/94-09/14/94	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/14/94-09/14/94	1	40.	40.	40.	40.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	09/14/94-09/14/94	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	09/14/94-09/14/94	1	60.	60.	60.	60.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	09/14/94-09/14/94	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/14/94-09/14/94	1	10.	10.	10.	10.	0.	0.	**	**	**	**

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

Parameter Inventory for Station: HOVE0047

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	09/14/94-09/14/94	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	09/14/94-09/14/94	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	09/14/94-09/14/94	1	600.	600.	600.	600.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	09/14/94-09/14/94	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	09/14/94-09/14/94	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	09/14/94-09/14/94	1	100.	100.	100.	100.	0.	0.	**	**	**	**
01140	SILICON, DISSOLVED (UG/L AS SI)	09/14/94-09/14/94	1	5450.	5450.	5450.	5450.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	09/14/94-09/14/94	1	8.	8.	8.	8.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	09/14/94-09/14/94	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/14/94-09/14/94	1	648.	648.	648.	648.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	09/14/94-09/14/94	1	79.3	79.3	79.3	79.3	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: HOVE0047

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/15 Obs	7/01-10/15 Exceed	7/01-10/15 Prop.	10/16-12/31 Obs	10/16-12/31 Exceed	10/16-12/31 Prop.	1/01-3/15 Obs	1/01-3/15 Exceed	1/01-3/15 Prop.	3/16-6/30 Obs	3/16-6/30 Exceed	3/16-6/30 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									
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	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									
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	1	0	0.00	1	0	0.00									
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	1	0	0.00	1	0	0.00									
		Drinking Water	5.	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00	1	0	0.00									
		Drinking Water	15.	0 &	0	0.00												
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
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									
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	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: HOVE0048

NPS Station ID: HOVE0048 LAT/LON: 37.408503/-109.030726 Agency: 11NPSWRD Date Created: 03/20/99
Location: HORSESHOE HOUSE FIPS State/County: 08083 COLORADO/MONTEZUMA
Station Type: /TYPA/AMBNT/SPRING STORET Station ID(s): HOVE_NPS_HORSE
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 14080202 Depth of Water: 0 Aquifer:
Major Basin: COLORADO RIVER Elevation: 0 Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER-SAN JUAN RIVER ECO Region:
RF1 Index: 14080202 RF1 Mile Point: 0.000 Distance from RF1: 0.20 On/Off RF1:
RF3 Index: 14080203001600.00 RF3 Mile Point: 3.26 Distance from RF3: 0.11 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE RUIN POINT UT 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS A SPRING LOCATED AT HORSESHOE HOUSE AND IS WITHIN THE BOUNDARIES OF HOVENWEEP NATIONAL MONUMENT (HOVE). DATA WERE COLLECTED AS PART OF THE REGULAR MONITORING OF HOVE WATER SITES AND WERE ANALYZED BY THE COLORADO STATE UNIVERSITY SOIL; WATER; AND PLANT TESTING LABORATORY; FORT COLLINS CO. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT HOVENWEEP NATIONAL MONUMENT; MCELMO ROUTE; CORTEZ CO 81321-8901 (TEL. 970-529-4461). DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: HOVE0048

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/14/94-09/14/94	1	389.	389.	389.	389.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	09/14/94-09/14/94	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/14/94-09/14/94	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/14/94-09/14/94	1	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/14/94-09/14/94	1	155.	155.	155.	155.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	09/14/94-09/14/94	1	189.	189.	189.	189.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	09/14/94-09/14/94	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	09/14/94-09/14/94	1	0.93	0.93	0.93	0.93	0.	0.	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	09/14/94-09/14/94	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/14/94-09/14/94	1	172.	172.	172.	172.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/14/94-09/14/94	1	56.7	56.7	56.7	56.7	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/14/94-09/14/94	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/14/94-09/14/94	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/14/94-09/14/94	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	09/14/94-09/14/94	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	09/14/94-09/14/94	1	26.7	26.7	26.7	26.7	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	09/14/94-09/14/94	1	120.	120.	120.	120.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	09/14/94-09/14/94	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/14/94-09/14/94	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/14/94-09/14/94	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	09/14/94-09/14/94	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	09/14/94-09/14/94	1	60.	60.	60.	60.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	09/14/94-09/14/94	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/14/94-09/14/94	1	10.	10.	10.	10.	0.	0.	**	**	**	**

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

Parameter Inventory for Station: HOVE0048

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	09/14/94-09/14/94	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	09/14/94-09/14/94	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	09/14/94-09/14/94	1	330.	330.	330.	330.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	09/14/94-09/14/94	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	09/14/94-09/14/94	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	09/14/94-09/14/94	1	100.	100.	100.	100.	0.	0.	**	**	**	**
01140	SILICON, DISSOLVED (UG/L AS SI)	09/14/94-09/14/94	1	5290.	5290.	5290.	5290.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	09/14/94-09/14/94	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	09/14/94-09/14/94	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/14/94-09/14/94	1	299.	299.	299.	299.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	09/14/94-09/14/94	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

EPA Water Quality Criteria Analysis for Station: HOVE0048

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/15 Obs	7/01-10/15 Exceed	7/01-10/15 Prop.	10/16-12/31 Obs	10/16-12/31 Exceed	10/16-12/31 Prop.	1/01-3/15 Obs	1/01-3/15 Exceed	1/01-3/15 Prop.	3/16-6/30 Obs	3/16-6/30 Exceed	3/16-6/30 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									
00618	NITRATE NITROGEN, DISSOLVED AS N	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									
01005	BARIUM, DISSOLVED	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									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00	1	0	0.00									
		Drinking Water	15.	0 &	0	0.00												
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
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									
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: HOVE0049

NPS Station ID: HOVE0049 | LAT/LON: 37.324698/-109.033310 | Agency: 11NPSWRD | Date Created: 08/15/98
Location: C25079 | FIPS State/County: 08083 COLORADO/MONTEZUMA
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): HOVE_NURE_06 /1085382
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 14080202 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 0 | Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER SAN JUAN RIVER | ECO Region:
RF1 Index: 14080202 | RF1 Mile Point: 0.000 | Distance from RF1: 0.20 | On/Off RF1:
RF3 Index: 14080203001600.00 | RF3 Mile Point: 3.26 | Distance from RF3: 0.11 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE WICKIUP CANYON CO AND UT 7.5 MINUTE SERIES (TOPO.) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE OF THE HOVENWEEP NATIONAL MONUMENT BOUNDARY. THE SAMPLES WERE FILTERED THROUGH A 0.45 UM MEMBRANE FILTER AND ACIDIFIED TO A PH OF LESS THAN OR EQUAL TO 1 WITH REAGENT GRADE NITRIC ACID. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NATIONAL PARK SERVICE-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: HOVE0049

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/19/78-05/19/78	1	22.	22.	22.	22.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/19/78-05/19/78	1	2050.	2050.	2050.	2050.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	05/19/78-05/19/78	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/19/78-05/19/78	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/19/78-05/19/78	1	0.016	0.016	0.016	0.016	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/19/78-05/19/78	1	231.	231.	231.	231.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/19/78-05/19/78	1	127.	127.	127.	127.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/19/78-05/19/78	1	174.	174.	174.	174.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	05/19/78-05/19/78	1	189.	189.	189.	189.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	05/19/78-05/19/78	1	56.	56.	56.	56.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	05/19/78-05/19/78	1	177.	177.	177.	177.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	05/19/78-05/19/78	1 ##	100.	100.	100.	100.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/19/78-05/19/78	1	78.	78.	78.	78.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	05/19/78-05/19/78	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	05/19/78-05/19/78	1	468.	468.	468.	468.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	05/19/78-05/19/78	1	145.	145.	145.	145.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	05/19/78-05/19/78	1	76.	76.	76.	76.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	05/19/78-05/19/78	1	3.45	3.45	3.45	3.45	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: HOVE0049

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/15 Obs	7/01-10/15 Exceed	7/01-10/15 Prop.	10/16-12/31 Obs	10/16-12/31 Exceed	10/16-12/31 Prop.	1/01-3/15 Obs	1/01-3/15 Exceed	1/01-3/15 Prop.	3/16-6/30 Obs	3/16-6/30 Exceed	3/16-6/30 Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00										1	0	0.00
		Other-Lo Lim.	6.5	1	0	0.00										1	0	0.00
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	1	1.00										1	1	1.00
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	1	1.00										1	1	1.00
		Drinking Water	1300.	1	0	0.00										1	0	0.00
01049	LEAD, DISSOLVED	Fresh Acute	82.	0 &	0	0.00												
		Drinking Water	15.	0 &	0	0.00												
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00										1	0	0.00
		Drinking Water	100.	1	1	1.00										1	1	1.00
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	1	1.00										1	1	1.00
		Drinking Water	5000.	1	0	0.00										1	0	0.00
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00										1	0	0.00

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

Station Inventory for Station: HOVE0050

NPS Station ID: HOVE0050 | LAT/LON: 37.329448/-109.041948 | Agency: 11NPSWRD | Date Created: 09/12/98
Location: YELLOW JACKET CANYON AT MOUTH | FIPS State/County: 08083 COLORADO/MONTEZUMA
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): HOVE_USGS_YJ2
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 14080202 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 0 | Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER SAN JUAN RIVER | ECO Region:
RF1 Index: 14080202 | RF1 Mile Point: 0.000 | Distance from RF1: 0.20 | On/Off RF1:
RF3 Index: 14080203001600.00 | RF3 Mile Point: 3.26 | Distance from RF3: 0.11 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE WICKIUP CANYON CO-UT 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS LOCATED AT THE MOUTH OF YELLOW JACKET CANYON. THE SAMPLING SITE IS OUTSIDE OF THE HOVENWEEP NATIONAL MONUMENT BOUNDARY BUT IS WITHIN A 10 MILE RADIUS OF THE MONUMENT. THE DATA WERE COLLECTED BY THE U.S. GEOLOGICAL SURVEY IN COOPERATION WITH THE U.S. FISH AND WILDLIFE SERVICE; BUREAU OF RECLAMATION; AND BUREAU OF INDIAN AFFAIRS; AND ARE PRESENTED IN THE USGS WATER-RESOURCES INVESTIGATIONS REPORT NUMBER 94-4041. SELECT DATA FOR THIS SITE WERE PREVIOUSLY UPLOADED TO STORET BY THE USGS UNDER STATION ID 371946109023101. DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (970-225-3516).

Parameter Inventory for Station: HOVE0050

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/27/90-11/14/90	3	249.	249.667	264.	236.	196.333	14.012	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	03/27/90-11/14/90	3	570.	556.667	680.	420.	17033.333	130.512	**	**	**	**
00931	SODIUM ADSORPTION RATIO	03/27/90-11/14/90	3	1.	1.3	2.	0.9	0.37	0.608	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	03/27/90-11/14/90	3	19.5	20.587	34.9	7.36	190.499	13.802	**	**	**	**

** - Less than 9 observations ## - 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: HOVE0051

NPS Station ID: HOVE0051
LAT/LON: 37.329448/-109.041948
Agency: 112WRD
Date Created: 07/28/90
Location: YELLOW JACKET CANYON AT MOUTH
FIPS State/County: 08083 COLORADO/MONTEZUMA
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 371946109023101
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 14080202
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 14080202
RF1 Mile Point: 0.000
Distance from RF1: 1.40
On/Off RF1:
RF3 Index: 14080202002100.00
RF3 Mile Point: 0.94
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: HOVE0051

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/27/90-11/14/90	3	17.	16.	27.	4.	133.	11.533	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	03/27/90-11/14/90	3	643.	641.333	643.	638.	8.333	2.887	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/27/90-11/14/90	3	8.	10.667	21.	3.	86.333	9.292	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/27/90-11/14/90	3	1200.	1242.	1590.	936.	108252.	329.017	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	03/27/90-11/14/90	3	8.1	8.5	10.8	6.6	4.53	2.128	**	**	**	**
00400	PH (STANDARD UNITS)	03/27/90-11/14/90	3	8.4	8.433	8.5	8.4	0.003	0.058	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	03/27/90-11/14/90	3	8.4	8.431	8.5	8.4	0.003	0.058	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/27/90-11/14/90	3	0.004	0.004	0.004	0.003	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	03/27/90-11/14/90	3	8.1	8.167	8.3	8.1	0.013	0.115	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	03/27/90-11/14/90	3	8.1	8.157	8.3	8.1	0.013	0.116	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/27/90-11/14/90	3	0.008	0.007	0.008	0.005	0.	0.002	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	11/14/90-11/14/90	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	11/14/90-11/14/90	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	03/27/90-11/14/90	3 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	11/14/90-11/14/90	1	90.	90.	90.	90.	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/14/90-11/14/90	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	03/27/90-11/14/90	3	110.	108.	120.	94.	172.	13.115	**	**	**	**
00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	11/14/90-11/14/90	1	9300.	9300.	9300.	9300.	0.	0.	**	**	**	**
00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	11/14/90-11/14/90	1	1100.	1100.	1100.	1100.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/27/90-11/14/90	3	72.	70.	93.	45.	579.	24.062	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	03/27/90-11/14/90	3	71.	74.667	110.	43.	1132.333	33.65	**	**	**	**
00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	11/14/90-11/14/90	1	1000.	1000.	1000.	1000.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	03/27/90-11/14/90	3	5.3	4.733	5.3	3.6	0.963	0.981	**	**	**	**
00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	11/14/90-11/14/90	1	3800.	3800.	3800.	3800.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	03/27/90-11/14/90	3	28.	29.333	42.	18.	145.333	12.055	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	03/27/90-11/14/90	3	430.	413.333	570.	240.	27433.333	165.63	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/14/90-11/14/90	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	07/16/90-11/14/90	2	14.5	14.5	17.	12.	12.5	3.536	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/27/90-11/14/90	3	1.	1.333	2.	1.	0.333	0.577	**	**	**	**
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	11/14/90-11/14/90	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	11/14/90-11/14/90	1	1300.	1300.	1300.	1300.	0.	0.	**	**	**	**
01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	11/14/90-11/14/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	03/27/90-11/14/90	3	90.	83.333	90.	70.	133.333	11.547	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/27/90-11/14/90	3 ##	0.5	0.667	1.	0.5	0.083	0.289	**	**	**	**
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	11/14/90-11/14/90	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	11/14/90-11/14/90	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/27/90-11/14/90	3 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	03/27/90-03/27/90	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

Parameter Inventory for Station: HOVE0051

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	11/14/90-11/14/90	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	03/27/90-11/14/90	3	1.	1.5	3.	0.5	1.75	1.323	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	11/14/90-11/14/90	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	03/27/90-11/14/90	3 ##	0.5	0.667	1.	0.5	0.083	0.289	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	11/14/90-11/14/90	1	7.	7.	7.	7.	0.	0.	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	11/14/90-11/14/90	1	230.	230.	230.	230.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	03/27/90-11/14/90	3 ##	1.	2.167	5.	0.5	6.083	2.466	**	**	**	**
01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	11/14/90-11/14/90	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	11/14/90-11/14/90	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	11/14/90-11/14/90	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	11/14/90-11/14/90	1	110.	110.	110.	110.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	03/27/90-11/14/90	3	3.	5.	11.	1.	28.	5.292	**	**	**	**
01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	11/14/90-11/14/90	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/27/90-11/14/90	3	5.	10.667	22.	5.	96.333	9.815	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	11/14/90-11/14/90	1	12.	12.	12.	12.	0.	0.	**	**	**	**
01103	TIN IN BOTTOM DEPOSITS (MG/KG AS SN DRY WGT)	11/14/90-11/14/90	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	11/14/90-11/14/90	1	8700.	8700.	8700.	8700.	0.	0.	**	**	**	**
01133	LITHIUM IN BOTTOM DEPOSITS (MG/KG AS LI DRY WGT)	11/14/90-11/14/90	1	11.	11.	11.	11.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	03/27/90-11/14/90	3 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	11/14/90-11/14/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	11/14/90-11/14/90	1	400.	400.	400.	400.	0.	0.	**	**	**	**
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	11/14/90-11/14/90	1	5900.	5900.	5900.	5900.	0.	0.	**	**	**	**
22707	URANIUM, NATURAL IN SEDIMENT (UG/G OF DRY SOLIDS)	11/14/90-11/14/90	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
28011	URANIUM,NATURAL,TOTAL UG/L AS U	03/27/90-11/14/90	3	2.1	2.133	2.4	1.9	0.063	0.252	**	**	**	**
39011	DISYSTON, FLAME PHOTOMETRIC,WATER SAMPLE (UG/L)	07/16/90-07/16/90	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39023	PHORATE, FLAME IONIZATION, WATER SAMPLE (UG/L)	07/16/90-07/16/90	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39040	S,S,S-TRIBUTYL PHOSPHOROTRITHIOATE WTR-FPD UG/L	07/16/90-07/16/90	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39251	PCNS IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	11/14/90-11/14/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/14/90-11/14/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	11/14/90-11/14/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	11/14/90-11/14/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/14/90-11/14/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/14/90-11/14/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/14/90-11/14/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	11/14/90-11/14/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39389	ENDOSULFAN IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/14/90-11/14/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/14/90-11/14/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39398	ETHION IN WHOLE WATER SAMPLE (UG/L)	07/16/90-07/16/90	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	11/14/90-11/14/90	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	11/14/90-11/14/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	11/14/90-11/14/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	11/14/90-11/14/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/14/90-11/14/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	07/16/90-07/16/90	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	07/16/90-07/16/90	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	07/16/90-07/16/90	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	07/16/90-07/16/90	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39720	PICLORAM IN WHOLE WATER SAMPLE (UG/L)	07/16/90-07/16/90	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	07/16/90-07/16/90	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	07/16/90-07/16/90	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39758	MIREX, BOTTOM MATERIAL (UG/KG DRY SOLIDS)	11/14/90-11/14/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	07/16/90-07/16/90	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39786	TRITHION IN WHOLE WATER SAMPLE (UG/L)	07/16/90-07/16/90	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39790	METHYL TRITHION IN WHOLE WATER SAMPLE (UG/L)	07/16/90-07/16/90	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/27/90-11/14/90	3	828.	905.667	1230.	659.	86034.333	293.316	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	03/27/90-11/14/90	3 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	11/14/90-11/14/90	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
75993	URANIUM,NATURAL,1 SIGMA PRC EST,TOTAL,WATER UG/L	03/27/90-11/14/90	3	0.6	0.6	0.7	0.5	0.01	0.1	**	**	**	**
81886	PERTHANE IN SEDIMENT DRY WEIGHT UG/KG	11/14/90-11/14/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
82052	BANVEL (DICAMBA) WHOLE WATER,UG/L	07/16/90-07/16/90	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
82170	GOLD IN SEDIMENT MG/KG	11/14/90-11/14/90	1 ##	4.	4.	4.	4.	0.	0.	**	**	**	**
82183	2,4-DP (DICHLORPROP) TOTAL UG/L	07/16/90-07/16/90	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82311	YTTERBIUMIN BOTTOM MATERIAL DRY WT. AS YB UG/KG	11/14/90-11/14/90	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

Parameter Inventory for Station: HOVE0051

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
82313	THORIUM IN BOTTOM MATERIAL DRY WEIGHT AS TH UG/KG	11/14/90-11/14/90	1	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
82317	SCANDIUM, IN BOTTOM MATERIAL DRY WT AS SC UG/KG	11/14/90-11/14/90	1	21.	21.	21.	21.	0.	0.	**	**	**	**
82321	TANTALUM IN BOTTOM MATERIAL DRY WT. AS TA UG/KG	11/14/90-11/14/90	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: HOVE0051

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/15 Obs	7/01-10/15 Exceed	7/01-10/15 Prop.	10/16-12/31 Obs	10/16-12/31 Exceed	10/16-12/31 Prop.	1/01-3/15 Obs	1/01-3/15 Exceed	1/01-3/15 Prop.	3/16-6/30 Obs	3/16-6/30 Exceed	3/16-6/30 Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
00400	PH	Fresh Chronic	9.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
		Other-Lo Lim.	6.5	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
00403	PH, LAB	Fresh Chronic	9.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
		Other-Lo Lim.	6.5	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	1	0	0.00				1	0	0.00						
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
		Drinking Water	250.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	3	2	0.67	1	0	0.00	1	1	1.00				1	1	1.00
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00				1	0	0.00						
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
		Drinking Water	50.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
		Drinking Water	5.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
01040	COPPER, DISSOLVED	Fresh Acute	18.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
		Drinking Water	1300.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
01049	LEAD, DISSOLVED	Fresh Acute	82.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
		Drinking Water	15.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
01090	ZINC, DISSOLVED	Fresh Acute	120.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
		Drinking Water	5000.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
		Drinking Water	50.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
28011	URANIUM, NATURAL, TOTAL	Drinking Water	20.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
39540	PARATHION IN WHOLE WATER SAMPLE	Fresh Acute	0.065	1	0	0.00	1	0	0.00									
39720	PICLORAM IN WHOLE WATER SAMPLE	Drinking Water	500.	1	0	0.00	1	0	0.00									
39730	2,4-D IN WHOLE WATER SAMPLE	Drinking Water	70.	1	0	0.00	1	0	0.00									
39760	SILVEX IN WHOLE WATER SAMPLE	Drinking Water	50.	1	0	0.00	1	0	0.00									
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
		Drinking Water	2.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00

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

Station Inventory for Station: HOVE0052

NPS Station ID: HOVE0052 | LAT/LON: 37.329198/-109.042504 | Agency: 11NPSWRD | Date Created: 08/15/98
Location: C25080 | FIPS State/County: 08083 COLORADO/MONTEZUMA
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): HOVE_NURE_02 /1085383
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 14080202 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 0 | Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER SAN JUAN RIVER | ECO Region:
RF1 Index: 14080202 | RF1 Mile Point: 0.000 | Distance from RF1: 0.20 | On/Off RF1:
RF3 Index: 14080203001600.00 | RF3 Mile Point: 3.26 | Distance from RF3: 0.11 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE WICKIUP CANYON CO AND UT 7.5 MINUTE SERIES (TOPO.) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE OF THE HOVENWEEP NATIONAL MONUMENT BOUNDARY. THE SAMPLES WERE FILTERED THROUGH A 0.45 UM MEMBRANE FILTER AND ACIDIFIED TO A PH OF LESS THAN OR EQUAL TO 1 WITH REAGENT GRADE NITRIC ACID. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NATIONAL PARK SERVICE-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: HOVE0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/19/78-05/19/78	1	23.	23.	23.	23.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/19/78-05/19/78	1	1600.	1600.	1600.	1600.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	05/19/78-05/19/78	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/19/78-05/19/78	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/19/78-05/19/78	1	0.016	0.016	0.016	0.016	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/19/78-05/19/78	1	130.	130.	130.	130.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/19/78-05/19/78	1	84.1	84.1	84.1	84.1	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/19/78-05/19/78	1	64.	64.	64.	64.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	05/19/78-05/19/78	1	101.	101.	101.	101.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	05/19/78-05/19/78	1	26.	26.	26.	26.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	05/19/78-05/19/78	1	153.	153.	153.	153.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	05/19/78-05/19/78	1 ##	100.	100.	100.	100.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/19/78-05/19/78	1	45.	45.	45.	45.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	05/19/78-05/19/78	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	05/19/78-05/19/78	1	116.	116.	116.	116.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	05/19/78-05/19/78	1	115.	115.	115.	115.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	05/19/78-05/19/78	1	29.	29.	29.	29.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	05/19/78-05/19/78	1	1.29	1.29	1.29	1.29	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: HOVE0052

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/15 Obs	7/01-10/15 Exceed	7/01-10/15 Prop.	10/16-12/31 Obs	10/16-12/31 Exceed	10/16-12/31 Prop.	1/01-3/15 Obs	1/01-3/15 Exceed	1/01-3/15 Prop.	3/16-6/30 Obs	3/16-6/30 Exceed	3/16-6/30 Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00										1	0	0.00
		Other-Lo Lim.	6.5	1	0	0.00										1	0	0.00
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00										1	0	0.00
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	1	1.00										1	1	1.00
		Drinking Water	1300.	1	0	0.00										1	0	0.00
01049	LEAD, DISSOLVED	Fresh Acute	82.	0 &	0	0.00												
		Drinking Water	15.	0 &	0	0.00												
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00										1	0	0.00
		Drinking Water	100.	1	1	1.00										1	1	1.00
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00										1	0	0.00
		Drinking Water	5000.	1	0	0.00										1	0	0.00
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00										1	0	0.00

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

Station Inventory for Station: HOVE0053

NPS Station ID: HOVE0053 | LAT/LON: 37.471698/-109.044198 | Agency: 11NPSWRD | Date Created: 08/15/98
Location: C25084 | FIPS State/County: 49037 UTAH/SAN JUAN
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): HOVE_NURE_08 /1085385
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 14080203 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 0 | Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER SAN JUAN RIVER | ECO Region:
RF1 Index: 14080203 | RF1 Mile Point: 0.000 | Distance from RF1: 0.20 | On/Off RF1:
RF3 Index: 14080203001600.00 | RF3 Mile Point: 3.26 | Distance from RF3: 0.11 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE RUIN POINT CO AND UT 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE OF THE HOVENWEEP NATIONAL MONUMENT BOUNDARY. THE SAMPLES WERE FILTERED THROUGH A 0.45 UM MEMBRANE FILTER AND ACIDIFIED TO A PH OF LESS THAN OR EQUAL TO 1 WITH REAGENT GRADE NITRIC ACID. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NATIONAL PARK SERVICE-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: HOVE0053

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/19/78-05/19/78	1	21.	21.	21.	21.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/19/78-05/19/78	1	5500.	5500.	5500.	5500.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	05/19/78-05/19/78	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/19/78-05/19/78	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/19/78-05/19/78	1	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/19/78-05/19/78	1	431.	431.	431.	431.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/19/78-05/19/78	1	229.	229.	229.	229.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/19/78-05/19/78	1	472.	472.	472.	472.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	05/19/78-05/19/78	1	354.	354.	354.	354.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	05/19/78-05/19/78	1	119.	119.	119.	119.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	05/19/78-05/19/78	1	182.	182.	182.	182.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	05/19/78-05/19/78	1 ##	100.	100.	100.	100.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/19/78-05/19/78	1	166.	166.	166.	166.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	05/19/78-05/19/78	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	05/19/78-05/19/78	1	1061.	1061.	1061.	1061.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	05/19/78-05/19/78	1	249.	249.	249.	249.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	05/19/78-05/19/78	1	182.	182.	182.	182.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	05/19/78-05/19/78	1	2.68	2.68	2.68	2.68	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: HOVE0053

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/15 Obs	7/01-10/15 Exceed	7/01-10/15 Prop.	10/16-12/31 Obs	10/16-12/31 Exceed	10/16-12/31 Prop.	1/01-3/15 Obs	1/01-3/15 Exceed	1/01-3/15 Prop.	3/16-6/30 Obs	3/16-6/30 Exceed	3/16-6/30 Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00										1	0	0.00
		Other-Lo Lim.	6.5	1	0	0.00										1	0	0.00
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	1	1.00										1	1	1.00
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	1	1.00										1	1	1.00
		Drinking Water	1300.	1	0	0.00										1	0	0.00
01049	LEAD, DISSOLVED	Fresh Acute	82.	0 &	0	0.00												
		Drinking Water	15.	0 &	0	0.00												
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00										1	0	0.00
		Drinking Water	100.	1	1	1.00										1	1	1.00
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	1	1.00										1	1	1.00
		Drinking Water	5000.	1	0	0.00										1	0	0.00
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00										1	0	0.00

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

Station Inventory for Station: HOVE0054

NPS Station ID: HOVE0054 | LAT/LON: 37.39985/-109.040043 | Agency: 11NPSWRD | Date Created: 03/20/99
Location: HOLLY HOUSE | FIPS State/County: 49037 UTAH/SAN JUAN
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): HOVE_NPS_HOLLY
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 14080202 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 0 | Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER-SAN JUAN RIVER | ECO Region:
RF1 Index: 14080202 | RF1 Mile Point: 0.000 | Distance from RF1: 0.20 | On/Off RF1:
RF3 Index: 14080203001600.00 | RF3 Mile Point: 3.26 | Distance from RF3: 0.11 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE RUIN POINT UT 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS A SPRING LOCATED AT HOLLY HOUSE AND IS WITHIN HOVENWEEP NATIONAL MONUMENT (HOVE). DATA WERE COLLECTED AS PART OF THE REGULAR MONITORING OF HOVE WATER SITES AND WERE ANALYZED BY THE COLORADO STATE UNIVERSITY SOIL; WATER; AND PLANT TESTING LABORATORY; FORT COLLINS CO. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT HOVENWEEP NATIONAL MONUMENT; MCELMO ROUTE; CORTEZ CO 81321-8901 (TEL. 970-529-4461). DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: HOVE0054

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/14/94-09/14/94	1	156.	156.	156.	156.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	09/14/94-09/14/94	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/14/94-09/14/94	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/14/94-09/14/94	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/14/94-09/14/94	1	79.	79.	79.	79.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	09/14/94-09/14/94	1	97.	97.	97.	97.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	09/14/94-09/14/94	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	09/14/94-09/14/94	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	09/14/94-09/14/94	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/14/94-09/14/94	1	75.	75.	75.	75.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/14/94-09/14/94	1	25.4	25.4	25.4	25.4	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/14/94-09/14/94	1	2.9	2.9	2.9	2.9	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/14/94-09/14/94	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/14/94-09/14/94	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	09/14/94-09/14/94	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	09/14/94-09/14/94	1	5.1	5.1	5.1	5.1	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	09/14/94-09/14/94	1	100.	100.	100.	100.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	09/14/94-09/14/94	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/14/94-09/14/94	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/14/94-09/14/94	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	09/14/94-09/14/94	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	09/14/94-09/14/94	1	1820.	1820.	1820.	1820.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/14/94-09/14/94	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	09/14/94-09/14/94	1	10.	10.	10.	10.	0.	0.	**	**	**	**

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

Parameter Inventory for Station: HOVE0054

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01065	NICKEL, DISSOLVED (UG/L AS NI)	09/14/94-09/14/94	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	09/14/94-09/14/94	1	150.	150.	150.	150.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	09/14/94-09/14/94	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	09/14/94-09/14/94	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	09/14/94-09/14/94	1	6800.	6800.	6800.	6800.	0.	0.	**	**	**	**
01140	SILICON, DISSOLVED (UG/L AS SI)	09/14/94-09/14/94	1	12900.	12900.	12900.	12900.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	09/14/94-09/14/94	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	09/14/94-09/14/94	1	380.	380.	380.	380.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/14/94-09/14/94	1	132.	132.	132.	132.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	09/14/94-09/14/94	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: HOVE0054

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/15 Obs	7/01-10/15 Exceed	7/01-10/15 Prop.	10/16-12/31 Obs	10/16-12/31 Exceed	10/16-12/31 Prop.	1/01-3/15 Obs	1/01-3/15 Exceed	1/01-3/15 Prop.	3/16-6/30 Obs	3/16-6/30 Exceed	3/16-6/30 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									
00618	NITRATE NITROGEN, DISSOLVED AS N	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									
01005	BARIUM, DISSOLVED	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									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: HOVE0055

NPS Station ID: HOVE0055 LAT/LON: 37.325837/-109.049171 Agency: 11NPSWRD Date Created: 09/12/98
Location: MCELMO CK DOWNSTREAM OF YELLOW JACKET CANYON FIPS State/County: 49037 UTAH/SAN JUAN
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): HOVE_USGS_ME4
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 14080202 Depth of Water: 0 Aquifer:
Major Basin: COLORADO RIVER Elevation: 0 Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER SAN JUAN RIVER ECO Region:
RF1 Index: 14080202 RF1 Mile Point: 0.000 Distance from RF1: 0.20 On/Off RF1:
RF3 Index: 14080203001600.00 RF3 Mile Point: 3.26 Distance from RF3: 0.11 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE WICKIUP CANYON CO-UT 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS LOCATED AT MCELMO CREEK DOWNSTREAM FROM YELLOW JACKET CANYON. THE SAMPLING SITE IS OUTSIDE OF THE HOVENWEEP NATIONAL MONUMENT BOUNDARY BUT IS WITHIN A 10 MILE RADIUS OF THE MONUMENT. THE DATA WERE COLLECTED BY THE U.S. GEOLOGICAL SURVEY IN COOPERATION WITH THE U.S. FISH AND WILDLIFE SERVICE; BUREAU OF RECLAMATION; AND BUREAU OF INDIAN AFFAIRS; AND ARE PRESENTED IN THE USGS WATER-RESOURCES INVESTIGATIONS REPORT NUMBER 94-4041. SELECT DATA FOR THIS SITE WERE PREVIOUSLY UPLOADED TO STORET BY THE USGS UNDER STATION ID 371933109025701. DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (970-225-3516).

Parameter Inventory for Station: HOVE0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/27/90-11/14/90	3	213.	218.	252.	189.	1011.	31.796	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	03/27/90-11/14/90	3	1300.	1333.333	1600.	1100.	63333.333	251.661	**	**	**	**
00931	SODIUM ADSORPTION RATIO	03/27/90-11/14/90	3	2.	2.333	3.	2.	0.333	0.577	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	03/27/90-11/14/90	3	354.	717.333	1620.	178.	618849.333	786.67	**	**	**	**

** - Less than 9 observations ## - 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: HOVE0056

NPS Station ID: HOVE0056 LAT/LON: 37.325837/-109.049171 Agency: 112WRD Date Created: 09/29/90
Location: MCELMO CREEK BLW YELLOW JACKET CANYON FIPS State/County: 08037 COLORADO/EAGLE
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 371933109025701
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 14080202 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 14080202 RF1 Mile Point: 0.000 Distance from RF1: 26.70 On/Off RF1:
RF3 Index: 14080203010000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.01 On/Off RF3:
Description:

Parameter Inventory for Station: HOVE0056

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/27/90-11/14/90	3	13.	12.333	20.	4.	64.333	8.021	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	03/27/90-11/14/90	3	644.	642.333	645.	638.	14.333	3.786	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/27/90-11/14/90	2	46.5	46.5	67.	26.	840.5	28.991	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/27/90-11/14/90	3	2490.	2676.667	3180.	2360.	194233.333	440.719	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	03/27/90-11/14/90	3	9.3	9.067	11.1	6.8	4.663	2.159	**	**	**	**
00400	PH (STANDARD UNITS)	03/27/90-11/14/90	3	8.3	8.167	8.5	7.7	0.173	0.416	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	03/27/90-11/14/90	3	8.3	8.028	8.5	7.7	0.202	0.45	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/27/90-11/14/90	3	0.005	0.009	0.02	0.003	0.	0.009	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	03/27/90-11/14/90	3	7.9	7.767	8.	7.4	0.103	0.321	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	03/27/90-11/14/90	3	7.9	7.682	8.	7.4	0.114	0.338	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/27/90-11/14/90	3	0.013	0.021	0.04	0.01	0.	0.017	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	11/14/90-11/14/90	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	11/14/90-11/14/90	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	03/27/90-11/14/90	3	1.8	1.6	1.8	1.2	0.12	0.346	**	**	**	**
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	11/14/90-11/14/90	1	300.	300.	300.	300.	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/14/90-11/14/90	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	03/27/90-11/14/90	3	270.	270.	290.	250.	400.	20.	**	**	**	**
00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	11/14/90-11/14/90	1	23000.	23000.	23000.	23000.	0.	0.	**	**	**	**
00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	11/14/90-11/14/90	1	3400.	3400.	3400.	3400.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/27/90-11/14/90	3	150.	160.	220.	110.	3100.	55.678	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	03/27/90-11/14/90	3	170.	183.333	240.	140.	2633.333	51.316	**	**	**	**
00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	11/14/90-11/14/90	1	3000.	3000.	3000.	3000.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	03/27/90-11/14/90	3	6.	6.467	9.	4.4	5.453	2.335	**	**	**	**
00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	11/14/90-11/14/90	1	8200.	8200.	8200.	8200.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	03/27/90-11/14/90	3	33.	36.	46.	29.	79.	8.888	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	03/27/90-11/14/90	3	1300.	1366.667	1600.	1200.	43333.333	208.167	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/14/90-11/14/90	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	07/16/90-11/14/90	2	9.	9.	9.7	8.3	0.98	0.99	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/27/90-11/14/90	3 ##	0.5	0.667	1.	0.5	0.083	0.289	**	**	**	**
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	11/14/90-11/14/90	1	3.9	3.9	3.9	3.9	0.	0.	**	**	**	**
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	11/14/90-11/14/90	1	770.	770.	770.	770.	0.	0.	**	**	**	**
01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	11/14/90-11/14/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	03/27/90-11/14/90	3	170.	180.	220.	150.	1300.	36.056	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/27/90-11/14/90	3 ##	0.5	1.333	3.	0.5	2.083	1.443	**	**	**	**
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	11/14/90-11/14/90	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	11/14/90-11/14/90	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/27/90-11/14/90	3 ##	0.5	0.667	1.	0.5	0.083	0.289	**	**	**	**
01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	11/14/90-11/14/90	1	5.	5.	5.	5.	0.	0.	**	**	**	**

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

Parameter Inventory for Station: HOVE0056

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01040	COPPER, DISSOLVED (UG/L AS CU)	03/27/90-11/14/90	3	2.	4.333	10.	1.	24.333	4.933	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	11/14/90-11/14/90	1	5.	5.	5.	5.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	03/27/90-11/14/90	3 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	11/14/90-11/14/90	1	8.	8.	8.	8.	0.	0.	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	11/14/90-11/14/90	1	370.	370.	370.	370.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	03/27/90-11/14/90	3	4.	7.	16.	1.	63.	7.937	**	**	**	**
01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	11/14/90-11/14/90	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	11/14/90-11/14/90	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	11/14/90-11/14/90	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	11/14/90-11/14/90	1	170.	170.	170.	170.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	03/27/90-11/14/90	3	1.	3.167	8.	0.5	17.583	4.193	**	**	**	**
01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	11/14/90-11/14/90	1	21.	21.	21.	21.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/27/90-11/14/90	3 ##	5.	6.667	10.	5.	8.333	2.887	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	11/14/90-11/14/90	1	26.	26.	26.	26.	0.	0.	**	**	**	**
01103	TIN IN BOTTOM DEPOSITS (MG/KG AS SN DRY WGT)	11/14/90-11/14/90	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	11/14/90-11/14/90	1	19000.	19000.	19000.	19000.	0.	0.	**	**	**	**
01133	LITHIUM IN BOTTOM DEPOSITS (MG/KG AS LI DRY WGT)	11/14/90-11/14/90	1	18.	18.	18.	18.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	03/27/90-11/14/90	3	6.	6.	9.	3.	9.	3.	**	**	**	**
01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	11/14/90-11/14/90	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	11/14/90-11/14/90	1	800.	800.	800.	800.	0.	0.	**	**	**	**
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	11/14/90-11/14/90	1	11000.	11000.	11000.	11000.	0.	0.	**	**	**	**
22707	URANIUM, NATURAL IN SEDIMENT (UG/G OF DRY SOLIDS)	11/14/90-11/14/90	1	1.2	1.2	1.2	1.2	0.	0.	**	**	**	**
28011	URANIUM,NATURAL,TOTAL UG/L AS U	03/27/90-11/14/90	3	8.3	7.933	9.	6.5	1.663	1.29	**	**	**	**
39011	DISYSTON, FLAME PHOTOMETRIC,WATER SAMPLE (UG/L)	07/16/90-07/16/90	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39023	PHORATE, FLAME IONIZATION, WATER SAMPLE (UG/L)	07/16/90-07/16/90	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39040	S,S,S-TRIBUTYL PHOSPHOROTRITHIOATE WTR-FPD UG/L	07/16/90-07/16/90	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39251	PCNS IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	11/14/90-11/14/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/14/90-11/14/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	11/14/90-11/14/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	11/14/90-11/14/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/14/90-11/14/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/14/90-11/14/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/14/90-11/14/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	11/14/90-11/14/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39389	ENDOSULFAN IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/14/90-11/14/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/14/90-11/14/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39398	ETHION IN WHOLE WATER SAMPLE (UG/L)	07/16/90-07/16/90	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	11/14/90-11/14/90	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	11/14/90-11/14/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	11/14/90-11/14/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	11/14/90-11/14/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/14/90-11/14/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	07/16/90-07/16/90	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	07/16/90-07/16/90	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	07/16/90-07/16/90	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	07/16/90-07/16/90	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39720	PICLORAM IN WHOLE WATER SAMPLE (UG/L)	07/16/90-07/16/90	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	07/16/90-07/16/90	1	0.14	0.14	0.14	0.14	0.	0.	**	**	**	**
39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	07/16/90-07/16/90	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39758	MIREX, BOTTOM MATERIAL (UG/KG DRY SOLIDS)	11/14/90-11/14/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	07/16/90-07/16/90	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39786	TRITHION IN WHOLE WATER SAMPLE (UG/L)	07/16/90-07/16/90	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39790	METHYL TRITHION IN WHOLE WATER SAMPLE (UG/L)	07/16/90-07/16/90	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/27/90-11/14/90	3	2290.	2436.667	2980.	2040.	237033.333	486.861	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	03/27/90-11/14/90	3 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	11/14/90-11/14/90	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
75993	URANIUM,NATURAL,1 SIGMA PRC EST,TOTAL,WATER UG/L	03/27/90-11/14/90	3	1.9	1.933	2.	1.9	0.003	0.058	**	**	**	**
81886	PERTHANE IN SEDIMENT DRY WEIGHT UG/KG	11/14/90-11/14/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
82052	BANVEL (DICAMBA) WHOLE WATER,UG/L	07/16/90-07/16/90	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
82170	GOLD IN SEDIMENT MG/KG	11/14/90-11/14/90	1 ##	4.	4.	4.	4.	0.	0.	**	**	**	**
82183	2,4-DP (DICHLORPROP) TOTAL UG/L	07/16/90-07/16/90	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82311	YTTERBIUMIN BOTTOM MATERIAL DRY WT. AS YB UG/KG	11/14/90-11/14/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
82313	THORIUM IN BOTTOM MATERIAL DRY WEIGHT AS TH UG/KG	11/14/90-11/14/90	1	2.9	2.9	2.9	2.9	0.	0.	**	**	**	**

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Parameter Inventory for Station: HOVE0056

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
82317	SCANDIUM, IN BOTTOM MATERIAL DRY WT AS SC UG/KG	11/14/90-11/14/90	1	2.	2.	2.	2.	0.	0.	**	**	**	**
82321	TANTALUM IN BOTTOM MATERIAL DRY WT. AS TA UG/KG	11/14/90-11/14/90	1 ##	20.	20.	20.	20.	0.	0.	**	**	**	**

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EPA Water Quality Criteria Analysis for Station: HOVE0056

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/15 Obs	7/01-10/15 Exceed	7/01-10/15 Prop.	10/16-12/31 Obs	10/16-12/31 Exceed	10/16-12/31 Prop.	1/01-3/15 Obs	1/01-3/15 Exceed	1/01-3/15 Prop.	3/16-6/30 Obs	3/16-6/30 Exceed	3/16-6/30 Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
00400	PH	Fresh Chronic	9.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
		Other-Lo Lim.	6.5	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
00403	PH, LAB	Fresh Chronic	9.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
		Other-Lo Lim.	6.5	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	1	0	0.00				1	0	0.00						
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
		Drinking Water	250.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	3	3	1.00	1	1	1.00	1	1	1.00				1	1	1.00
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00				1	0	0.00						
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
		Drinking Water	50.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
		Drinking Water	5.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
01040	COPPER, DISSOLVED	Fresh Acute	18.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
		Drinking Water	1300.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
01049	LEAD, DISSOLVED	Fresh Acute	82.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
		Drinking Water	15.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
01090	ZINC, DISSOLVED	Fresh Acute	120.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
		Drinking Water	5000.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
		Drinking Water	50.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
28011	URANIUM, NATURAL, TOTAL	Drinking Water	20.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
39540	PARATHION IN WHOLE WATER SAMPLE	Fresh Acute	0.065	1	0	0.00	1	0	0.00									
39720	PICLORAM IN WHOLE WATER SAMPLE	Drinking Water	500.	1	0	0.00	1	0	0.00									
39730	2,4-D IN WHOLE WATER SAMPLE	Drinking Water	70.	1	0	0.00	1	0	0.00									
39760	SILVEX IN WHOLE WATER SAMPLE	Drinking Water	50.	1	0	0.00	1	0	0.00									
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00
		Drinking Water	2.	3	0	0.00	1	0	0.00	1	0	0.00				1	0	0.00

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

Station Inventory for Station: HOVE0057

NPS Station ID: HOVE0057 | LAT/LON: 37.386423/-109.08024 | Agency: 11NPSWRD | Date Created: 03/20/99
Location: SQUARE TOWER SPRING; EAST END | FIPS State/County: 49037 UTAH/SAN JUAN
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): HOVE_NPS_STSD
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 14080202 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 0 | Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER-SAN JUAN RIVER | ECO Region:
RF1 Index: 14080202 | RF1 Mile Point: 0.000 | Distance from RF1: 0.20 | On/Off RF1:
RF3 Index: 14080203001600.00 | RF3 Mile Point: 3.26 | Distance from RF3: 0.11 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE RUIN POINT UT 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT THE EAST END OF SQUARE TOWER SPRING AND IS WITHIN THE BOUNDARIES OF HOVENWEEP NATIONAL MONUMENT (HOVE). DATA WERE COLLECTED AS PART OF THE REGULAR MONITORING OF HOVE WATER SITES AND WERE ANALYZED BY THE COLORADO STATE UNIVERSITY SOIL; WATER; AND PLANT TESTING LABORATORY; FORT COLLINS CO. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT HOVENWEEP NATIONAL MONUMENT; MCELMO ROUTE; CORTEZ CO 81321-8901 (TEL. 970-529-4461). DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: HOVE0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/14/94-09/14/94	1	582.	582.	582.	582.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	09/14/94-09/14/94	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/14/94-09/14/94	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/14/94-09/14/94	1	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/14/94-09/14/94	1	408.	408.	408.	408.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	09/14/94-09/14/94	1	498.	498.	498.	498.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	09/14/94-09/14/94	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	09/14/94-09/14/94	1	5.03	5.03	5.03	5.03	0.	0.	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	09/14/94-09/14/94	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/14/94-09/14/94	1	401.	401.	401.	401.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/14/94-09/14/94	1	107.4	107.4	107.4	107.4	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/14/94-09/14/94	1	32.4	32.4	32.4	32.4	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/14/94-09/14/94	1	53.1	53.1	53.1	53.1	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/14/94-09/14/94	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	09/14/94-09/14/94	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	09/14/94-09/14/94	1	39.5	39.5	39.5	39.5	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	09/14/94-09/14/94	1	70.	70.	70.	70.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	09/14/94-09/14/94	1	30.	30.	30.	30.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/14/94-09/14/94	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/14/94-09/14/94	1	40.	40.	40.	40.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	09/14/94-09/14/94	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	09/14/94-09/14/94	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	09/14/94-09/14/94	1	100.	100.	100.	100.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/14/94-09/14/94	1	10.	10.	10.	10.	0.	0.	**	**	**	**

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

Parameter Inventory for Station: HOVE0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	09/14/94-09/14/94	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	09/14/94-09/14/94	1	30.	30.	30.	30.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	09/14/94-09/14/94	1	1330.	1330.	1330.	1330.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	09/14/94-09/14/94	1	30.	30.	30.	30.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	09/14/94-09/14/94	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	09/14/94-09/14/94	1	100.	100.	100.	100.	0.	0.	**	**	**	**
01140	SILICON, DISSOLVED (UG/L AS SI)	09/14/94-09/14/94	1	3060.	3060.	3060.	3060.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	09/14/94-09/14/94	1	40.	40.	40.	40.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	09/14/94-09/14/94	1	10.	10.	10.	10.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/14/94-09/14/94	1	763.	763.	763.	763.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	09/14/94-09/14/94	1	22.3	22.3	22.3	22.3	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: HOVE0057

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/15 Obs	7/01-10/15 Exceed	7/01-10/15 Prop.	10/16-12/31 Obs	10/16-12/31 Exceed	10/16-12/31 Prop.	1/01-3/15 Obs	1/01-3/15 Exceed	1/01-3/15 Prop.	3/16-6/30 Obs	3/16-6/30 Exceed	3/16-6/30 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									
00618	NITRATE NITROGEN, DISSOLVED AS N	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									
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	1	1	1.00	1	1	1.00									
		Drinking Water	5.	1	1	1.00	1	1	1.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	1	1.00	1	1	1.00									
		Drinking Water	15.	1	1	1.00	1	1	1.00									
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	1	1.00	1	1	1.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: HOVE0058

NPS Station ID: HOVE0058 | LAT/LON: 37.386368/-109.080761 | Agency: 11NPSWRD | Date Created: 03/20/99
Location: SQUARE TOWER SPRING; WEST END | FIPS State/County: 49037 UTAH/SAN JUAN
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): HOVE_NPS_STSW
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 14080202 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 0 | Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER-SAN JUAN RIVER | ECO Region:
RF1 Index: 14080202 | RF1 Mile Point: 0.000 | Distance from RF1: 0.20 | On/Off RF1:
RF3 Index: 14080203001600.00 | RF3 Mile Point: 3.26 | Distance from RF3: 0.11 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE RUIN POINT UT 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT THE WEST END OF SQUARE TOWER SPRING AND IS WITHIN THE BOUNDARIES OF HOVENWEEP NATIONAL MONUMENT (HOVE). DATA WERE COLLECTED AS PART OF THE REGULAR MONITORING OF HOVE WATER SITES AND WERE ANALYZED BY THE COLORADO STATE UNIVERSITY SOIL; WATER; AND PLANT TESTING LABORATORY; FORT COLLINS CO. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT HOVENWEEP NATIONAL MONUMENT; MCELMO ROUTE; CORTEZ CO 81321-8901 (TEL. 970-529-4461). DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: HOVE0058

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/14/94-09/14/94	1	1400.	1400.	1400.	1400.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	09/14/94-09/14/94	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/14/94-09/14/94	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/14/94-09/14/94	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/14/94-09/14/94	1	381.	381.	381.	381.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	09/14/94-09/14/94	1	465.	465.	465.	465.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	09/14/94-09/14/94	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	09/14/94-09/14/94	1	1.11	1.11	1.11	1.11	0.	0.	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	09/14/94-09/14/94	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/14/94-09/14/94	1	279.	279.	279.	279.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/14/94-09/14/94	1	67.6	67.6	67.6	67.6	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/14/94-09/14/94	1	26.9	26.9	26.9	26.9	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/14/94-09/14/94	1	200.9	200.9	200.9	200.9	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/14/94-09/14/94	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	09/14/94-09/14/94	1	25.	25.	25.	25.	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	09/14/94-09/14/94	1	321.3	321.3	321.3	321.3	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	09/14/94-09/14/94	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	09/14/94-09/14/94	1	80.	80.	80.	80.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/14/94-09/14/94	1	5.	5.	5.	5.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/14/94-09/14/94	1	40.	40.	40.	40.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	09/14/94-09/14/94	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	09/14/94-09/14/94	1	60.	60.	60.	60.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	09/14/94-09/14/94	1	50.	50.	50.	50.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/14/94-09/14/94	1	10.	10.	10.	10.	0.	0.	**	**	**	**

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

Parameter Inventory for Station: HOVE0058

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	09/14/94-09/14/94	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	09/14/94-09/14/94	1	30.	30.	30.	30.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	09/14/94-09/14/94	1	2360.	2360.	2360.	2360.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	09/14/94-09/14/94	1	30.	30.	30.	30.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	09/14/94-09/14/94	1	30.	30.	30.	30.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	09/14/94-09/14/94	1	100.	100.	100.	100.	0.	0.	**	**	**	**
01140	SILICON, DISSOLVED (UG/L AS SI)	09/14/94-09/14/94	1	4100.	4100.	4100.	4100.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	09/14/94-09/14/94	1	40.	40.	40.	40.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	09/14/94-09/14/94	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/14/94-09/14/94	1	1112.	1112.	1112.	1112.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	09/14/94-09/14/94	1	4.9	4.9	4.9	4.9	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: HOVE0058

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/15 Obs	7/01-10/15 Exceed	7/01-10/15 Prop.	10/16-12/31 Obs	10/16-12/31 Exceed	10/16-12/31 Prop.	1/01-3/15 Obs	1/01-3/15 Exceed	1/01-3/15 Prop.	3/16-6/30 Obs	3/16-6/30 Exceed	3/16-6/30 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									
00618	NITRATE NITROGEN, DISSOLVED AS N	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	1	1.00	1	1	1.00									
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	1	1	1.00	1	1	1.00									
		Drinking Water	5.	1	1	1.00	1	1	1.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00	1	0	0.00									
		Drinking Water	15.	1	1	1.00	1	1	1.00									
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	1	1.00	1	1	1.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: HOVE0059

NPS Station ID: HOVE0059 | LAT/LON: 37.300108/-109.184185 | Agency: 11NPSWRD | Date Created: 03/20/99
Location: CAJON UNIT | FIPS State/County: 49037 UTAH/SAN JUAN
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): HOVE_NPS_CAH
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 14080202 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 0 | Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER-SAN JUAN RIVER | ECO Region:
RF1 Index: 14080202 | RF1 Mile Point: 0.000 | Distance from RF1: 0.20 | On/Off RF1:
RF3 Index: 14080203001600.00 | RF3 Mile Point: 3.26 | Distance from RF3: 0.11 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE RUIN POINT UT 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS LOCATED AT THE DRAINAGE BETWEEN THE TWO SPRINGS AT CAJON UNIT AND IS WITHIN THE BOUNDARIES OF HOVENWEEP NATIONAL MONUMENT (HOVE). DATA WERE COLLECTED AS PART OF THE REGULAR MONITORING OF HOVE WATER SITES AND WERE ANALYZED BY THE COLORADO STATE UNIVERSITY SOIL; WATER; AND PLANT TESTING LABORATORY; FORT COLLINS CO. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT HOVENWEEP NATIONAL MONUMENT; MCELMO ROUTE; CORTEZ CO 81321-8901 (TEL. 970-529-4461). DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DR. SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: HOVE0059

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/14/94-09/14/94	1	523.	523.	523.	523.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	09/14/94-09/14/94	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/14/94-09/14/94	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/14/94-09/14/94	1	0.006	0.006	0.006	0.006	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/14/94-09/14/94	1	174.	174.	174.	174.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	09/14/94-09/14/94	1	212.	212.	212.	212.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	09/14/94-09/14/94	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	09/14/94-09/14/94	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	09/14/94-09/14/94	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/14/94-09/14/94	1	171.	171.	171.	171.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/14/94-09/14/94	1	61.	61.	61.	61.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/14/94-09/14/94	1	4.6	4.6	4.6	4.6	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/14/94-09/14/94	1	39.9	39.9	39.9	39.9	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/14/94-09/14/94	1	1.2	1.2	1.2	1.2	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	09/14/94-09/14/94	1	26.	26.	26.	26.	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	09/14/94-09/14/94	1	51.6	51.6	51.6	51.6	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	09/14/94-09/14/94	1	80.	80.	80.	80.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	09/14/94-09/14/94	1	30.	30.	30.	30.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/14/94-09/14/94	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/14/94-09/14/94	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	09/14/94-09/14/94	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	09/14/94-09/14/94	1	90.	90.	90.	90.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	09/14/94-09/14/94	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/14/94-09/14/94	1	10.	10.	10.	10.	0.	0.	**	**	**	**

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

Parameter Inventory for Station: HOVE0059

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	09/14/94-09/14/94	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	09/14/94-09/14/94	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	09/14/94-09/14/94	1	390.	390.	390.	390.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	09/14/94-09/14/94	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	09/14/94-09/14/94	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	09/14/94-09/14/94	1	100.	100.	100.	100.	0.	0.	**	**	**	**
01140	SILICON, DISSOLVED (UG/L AS SI)	09/14/94-09/14/94	1	6500.	6500.	6500.	6500.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	09/14/94-09/14/94	1	5.	5.	5.	5.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	09/14/94-09/14/94	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/14/94-09/14/94	1	400.	400.	400.	400.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	09/14/94-09/14/94	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

EPA Water Quality Criteria Analysis for Station: HOVE0059

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/15 Obs	7/01-10/15 Exceed	7/01-10/15 Prop.	10/16-12/31 Obs	10/16-12/31 Exceed	10/16-12/31 Prop.	1/01-3/15 Obs	1/01-3/15 Exceed	1/01-3/15 Prop.	3/16-6/30 Obs	3/16-6/30 Exceed	3/16-6/30 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									
00618	NITRATE NITROGEN, DISSOLVED AS N	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									
01005	BARIUM, DISSOLVED	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									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00	1	0	0.00									
		Drinking Water	15.	0 &	0	0.00												
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
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									
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: HOVE0060

NPS Station ID: HOVE0060
LAT/LON: 37.350003/-109.075003
Agency: 112WRD
Date Created: 12/19/81
Location: (D-39-26)33 -S1
FIPS State/County: 49037 UTAH/SAN JUAN
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 372100109043001
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 14080202
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 14080202
RF1 Mile Point: 0.000
Distance from RF1: 7.70
On/Off RF1:
RF3 Index: 14080203000200.12
RF3 Mile Point: 2.41
Distance from RF3: 0.82
On/Off RF3:
Description:

Parameter Inventory for Station: HOVE0060

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/08/54-09/08/54	1	23.	23.	23.	23.	0.	0.	**	**	**	**
00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	09/08/54-09/08/54	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/08/54-09/08/54	1	2500.	2500.	2500.	2500.	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/08/54-09/08/54	1	674.	674.	674.	674.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	09/08/54-09/08/54	1	822.	822.	822.	822.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	09/08/54-09/08/54	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	09/08/54-09/08/54	1	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/08/54-09/08/54	1	231.	231.	231.	231.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/08/54-09/08/54	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/08/54-09/08/54	1	25.	25.	25.	25.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/08/54-09/08/54	1	41.	41.	41.	41.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	09/08/54-09/08/54	1	16.	16.	16.	16.	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	09/08/54-09/08/54	1	84.	84.	84.	84.	0.	0.	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	09/08/54-09/08/54	1	556.	556.	556.	556.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/08/54-09/08/54	1	44.	44.	44.	44.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	09/08/54-09/08/54	1	673.	673.	673.	673.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/08/54-09/08/54	1	1.1	1.1	1.1	1.1	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/08/54-09/08/54	1	15.	15.	15.	15.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/08/54-09/08/54	1	1760.	1760.	1760.	1760.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	09/08/54-09/08/54	1	1.1	1.1	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

EPA Water Quality Criteria Analysis for Station: HOVE0060

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/15 Obs	7/01-10/15 Exceed	7/01-10/15 Prop.	10/16-12/31 Obs	10/16-12/31 Exceed	10/16-12/31 Prop.	1/01-3/15 Obs	1/01-3/15 Exceed	1/01-3/15 Prop.	3/16-6/30 Obs	3/16-6/30 Exceed	3/16-6/30 Prop.
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									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	1	1.00	1	1	1.00									
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00	1	0	0.00									
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: HOVE0061

NPS Station ID: HOVE0061
LAT/LON: 37.386949/-109.079449
Agency: 112WRD
Date Created: 11/07/81
Location: (D-39-26)20AAC-S1
FIPS State/County: 49037 UTAH/SAN JUAN
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 372313109044601
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 14080202
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 14080202
RF1 Mile Point: 0.000
Distance from RF1: 1.40
On/Off RF1:
RF3 Index: 14080201017100.00
RF3 Mile Point: 0.00
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: HOVE0061

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/01/59-05/01/59	1	1650.	1650.	1650.	1650.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	05/01/59-05/01/59	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/01/59-05/01/59	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/01/59-05/01/59	1	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	05/01/59-05/01/59	1	6.7	6.7	6.7	6.7	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/01/59-05/01/59	1	434.	434.	434.	434.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	05/01/59-05/01/59	1	529.	529.	529.	529.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	05/01/59-05/01/59	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	05/01/59-05/01/59	1	0.59	0.59	0.59	0.59	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/01/59-05/01/59	1	794.	794.	794.	794.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	05/01/59-05/01/59	1	360.	360.	360.	360.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/01/59-05/01/59	1	98.	98.	98.	98.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/01/59-05/01/59	1	134.	134.	134.	134.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	05/01/59-05/01/59	1	1.9	1.9	1.9	1.9	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	05/01/59-05/01/59	1	25.	25.	25.	25.	0.	0.	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	05/01/59-05/01/59	1	122.	122.	122.	122.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	05/01/59-05/01/59	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	05/01/59-05/01/59	1	572.	572.	572.	572.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/01/59-05/01/59	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/01/59-05/01/59	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	05/01/59-05/01/59	1	80.	80.	80.	80.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/01/59-05/01/59	1	1220.	1220.	1220.	1220.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	05/01/59-05/01/59	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: HOVE0061

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/15 Obs	7/01-10/15 Exceed	7/01-10/15 Prop.	10/16-12/31 Obs	10/16-12/31 Exceed	10/16-12/31 Prop.	1/01-3/15 Obs	1/01-3/15 Exceed	1/01-3/15 Prop.	3/16-6/30 Obs	3/16-6/30 Exceed	3/16-6/30 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
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

EPA Water Quality Criteria Analysis for Station: HOVE0061

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/15 Obs	7/01-10/15 Exceed	7/01-10/15 Prop.	10/16-12/31 Obs	10/16-12/31 Exceed	10/16-12/31 Prop.	1/01-3/15 Obs	1/01-3/15 Exceed	1/01-3/15 Prop.	3/16-6/30 Obs	3/16-6/30 Exceed	3/16-6/30 Prop.
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	1	1.00										1	1	1.00
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00										1	0	0.00
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00										1	0	0.00

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

Station Inventory for Station: HOVE0062

NPS Station ID: HOVE0062 | LAT/LON: 37.441698/-109.116893 | Agency: 11NPSWRD | Date Created: 08/15/98
Location: C25001 | FIPS State/County: 49037 UTAH/SAN JUAN
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): HOVE_NURE_09 /1085372
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 14080203 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 0 | Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER SAN JUAN RIVER | ECO Region:
RF1 Index: 14080203 | RF1 Mile Point: 0.000 | Distance from RF1: 0.20 | On/Off RF1:
RF3 Index: 14080203001600.00 | RF3 Mile Point: 3.26 | Distance from RF3: 0.11 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE RUIN POINT CO AND UT 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE OF THE HOVENWEEP NATIONAL MONUMENT BOUNDARY. THE SAMPLES WERE FILTERED THROUGH A 0.45 UM MEMBRANE FILTER AND ACIDIFIED TO A PH OF LESS THAN OR EQUAL TO 1 WITH REAGENT GRADE NITRIC ACID. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NATIONAL PARK SERVICE-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: HOVE0062

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/78-05/15/78	1	22.	22.	22.	22.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/15/78-05/15/78	1	30000.	30000.	30000.	30000.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	05/15/78-05/15/78	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/15/78-05/15/78	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/15/78-05/15/78	1	0.016	0.016	0.016	0.016	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/15/78-05/15/78	1	351.	351.	351.	351.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/15/78-05/15/78	1	308.	308.	308.	308.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/15/78-05/15/78	1	508.	508.	508.	508.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	05/15/78-05/15/78	1	371.	371.	371.	371.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	05/15/78-05/15/78	1	127.	127.	127.	127.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	05/15/78-05/15/78	1	216.	216.	216.	216.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	05/15/78-05/15/78	1 ##	100.	100.	100.	100.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/15/78-05/15/78	1	159.	159.	159.	159.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	05/15/78-05/15/78	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	05/15/78-05/15/78	1	1198.	1198.	1198.	1198.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	05/15/78-05/15/78	1	50.	50.	50.	50.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	05/15/78-05/15/78	1	184.	184.	184.	184.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	05/15/78-05/15/78	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: HOVE0062

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/15 Obs	7/01-10/15 Exceed	7/01-10/15 Prop.	10/16-12/31 Obs	10/16-12/31 Exceed	10/16-12/31 Prop.	1/01-3/15 Obs	1/01-3/15 Exceed	1/01-3/15 Prop.	3/16-6/30 Obs	3/16-6/30 Exceed	3/16-6/30 Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00										1	0	0.00
		Other-Lo Lim.	6.5	1	0	0.00										1	0	0.00
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	1	1.00										1	1	1.00
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	1	1.00										1	1	1.00
		Drinking Water	1300.	1	0	0.00										1	0	0.00
01049	LEAD, DISSOLVED	Fresh Acute	82.	0 &	0	0.00												
		Drinking Water	15.	0 &	0	0.00												
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00										1	0	0.00
		Drinking Water	100.	1	1	1.00										1	1	1.00
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00										1	0	0.00
		Drinking Water	5000.	1	0	0.00										1	0	0.00
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00										1	0	0.00

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

Station Inventory for Station: HOVE0063

NPS Station ID: HOVE0063
LAT/LON: 37.344448/-109.200005
Agency: 112WRD
Date Created: 12/19/81
Location: (D-40-25) 5BBB-S1
FIPS State/County: 49037 UTAH/SAN JUAN
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 372040109120001
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 14080203
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 14080203
RF1 Mile Point: 0.000
Distance from RF1: 13.30
On/Off RF1:
RF3 Index: 14080201017600.00
RF3 Mile Point: 0.00
Distance from RF3: 0.22
On/Off RF3:
Description:

Parameter Inventory for Station: HOVE0063

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/08/54-09/08/54	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/08/54-09/08/54	1	3930.	3930.	3930.	3930.	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/08/54-09/08/54	1	312.	312.	312.	312.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	09/08/54-09/08/54	1	380.	380.	380.	380.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	09/08/54-09/08/54	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	09/08/54-09/08/54	1	0.34	0.34	0.34	0.34	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/08/54-09/08/54	1	117.	117.	117.	117.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/08/54-09/08/54	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/08/54-09/08/54	1	27.	27.	27.	27.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/08/54-09/08/54	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	09/08/54-09/08/54	1	37.	37.	37.	37.	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	09/08/54-09/08/54	1	97.	97.	97.	97.	0.	0.	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	09/08/54-09/08/54	1	927.	927.	927.	927.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/08/54-09/08/54	1	54.	54.	54.	54.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	09/08/54-09/08/54	1	1670.	1670.	1670.	1670.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/08/54-09/08/54	1	1.7	1.7	1.7	1.7	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/08/54-09/08/54	1	13.	13.	13.	13.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/08/54-09/08/54	1	2890.	2890.	2890.	2890.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	09/08/54-09/08/54	1	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: HOVE0063

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/15 Obs	7/01-10/15 Exceed	7/01-10/15 Prop.	10/16-12/31 Obs	10/16-12/31 Exceed	10/16-12/31 Prop.	1/01-3/15 Obs	1/01-3/15 Exceed	1/01-3/15 Prop.	3/16-6/30 Obs	3/16-6/30 Exceed	3/16-6/30 Prop.
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									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	1	1.00	1	1	1.00									
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00	1	0	0.00									
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									

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

EPA Water Quality Criteria Analysis for Entire HOVE Study Area

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/15 Obs	7/01-10/15 Exceed	7/01-10/15 Prop.	10/16-12/31 Obs	10/16-12/31 Exceed	10/16-12/31 Prop.	1/01-3/15 Obs	1/01-3/15 Exceed	1/01-3/15 Prop.	3/16-6/30 Obs	3/16-6/30 Exceed	3/16-6/30 Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	70	55	0.79	21	15	0.71	14	11	0.79	13	11	0.85	22	18	0.82
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	1	0	0.00										1	0	0.00
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	96	0	0.00	23	0	0.00	25	0	0.00	16	0	0.00	32	0	0.00
00400	PH	Fresh Chronic	9.	522	3	0.01	186	0	0.00	97	2	0.02	91	0	0.00	148	1	0.01
		Other-Lo Lim.	6.5	522	2	0.00	186	2	0.01	97	0	0.00	91	0	0.00	148	0	0.00
00403	PH, LAB	Fresh Chronic	9.	127	0	0.00	45	0	0.00	25	0	0.00	21	0	0.00	36	0	0.00
		Other-Lo Lim.	6.5	127	0	0.00	45	0	0.00	25	0	0.00	21	0	0.00	36	0	0.00
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	6	0	0.00				6	0	0.00						
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	51	0	0.00	10	0	0.00	14	0	0.00	10	0	0.00	17	0	0.00
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	9	1	0.11	8	1	0.13							1	0	0.00
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	56	4	0.07	15	0	0.00	14	2	0.14	11	1	0.09	16	1	0.06
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	42	1	0.02	7	0	0.00	11	1	0.09	10	0	0.00	14	0	0.00
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	56	0	0.00	19	0	0.00	12	0	0.00	5	0	0.00	20	0	0.00
00723	CYANIDE, DISSOLVED STD METHOD	Fresh Acute	22.	62	0	0.00	16	0	0.00	17	0	0.00	11	0	0.00	18	0	0.00
		Drinking Water	200.	62	0	0.00	16	0	0.00	17	0	0.00	11	0	0.00	18	0	0.00
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	459	0	0.00	146	0	0.00	89	0	0.00	87	0	0.00	137	0	0.00
		Drinking Water	250.	459	0	0.00	146	0	0.00	89	0	0.00	87	0	0.00	137	0	0.00
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	6	0	0.00	6	0	0.00									
		Drinking Water	250.	6	0	0.00	6	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	227	222	0.98	68	66	0.97	49	48	0.98	41	40	0.98	69	68	0.99
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	244	1	0.00	84	1	0.01	44	0	0.00	48	0	0.00	68	0	0.00
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	140	0	0.00	44	0	0.00	29	0	0.00	26	0	0.00	41	0	0.00
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	34	0	0.00	12	0	0.00	5	0	0.00	6	0	0.00	11	0	0.00
00998	BERYLLIUM,TOTAL RECOVERABLE IN WATER AS	Fresh Acute	130.	6	0	0.00				3	0	0.00				3	0	0.00
		Drinking Water	4.	0 &	0	0.00												
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	25	0	0.00	6	0	0.00	7	0	0.00	1	0	0.00	11	0	0.00
		Drinking Water	50.	25	0	0.00	6	0	0.00	7	0	0.00	1	0	0.00	11	0	0.00
01001	ARSENIC, SUSPENDED	Fresh Acute	360.	3	0	0.00	1	0	0.00							2	0	0.00
		Drinking Water	50.	3	0	0.00	1	0	0.00							2	0	0.00
01002	ARSENIC, TOTAL	Fresh Acute	360.	63	0	0.00	19	0	0.00	12	0	0.00	13	0	0.00	19	0	0.00
		Drinking Water	50.	63	0	0.00	19	0	0.00	12	0	0.00	13	0	0.00	19	0	0.00
01005	BARIUM, DISSOLVED	Drinking Water	2000.	13	0	0.00	7	0	0.00	1	0	0.00	1	0	0.00	4	0	0.00
01006	BARIUM, SUSPENDED	Drinking Water	2000.	4	0	0.00	1	0	0.00							3	0	0.00
01007	BARIUM, TOTAL	Drinking Water	2000.	4	0	0.00	1	0	0.00							3	0	0.00
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	7	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00	4	0	0.00
		Drinking Water	4.	4 &	0	0.00	1	0	0.00							3	0	0.00
01011	BERYLLIUM, SUSPENDED	Fresh Acute	130.	1	0	0.00										1	0	0.00
		Drinking Water	4.	1	0	0.00										1	0	0.00
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	4	0	0.00	1	0	0.00							3	0	0.00
		Drinking Water	4.	3 &	0	0.00	1	0	0.00							2	0	0.00
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	31	2	0.06	12	2	0.17	7	0	0.00	1	0	0.00	11	0	0.00
		Drinking Water	5.	31	2	0.06	12	2	0.17	7	0	0.00	1	0	0.00	11	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	4	0	0.00	1	0	0.00							3	0	0.00
		Drinking Water	5.	4	0	0.00	1	0	0.00							3	0	0.00
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	54	14	0.26	31	11	0.35	7	0	0.00	1	0	0.00	15	3	0.20
01031	CHROMIUM, SUSPENDED	Drinking Water	100.	4	0	0.00	1	0	0.00							3	0	0.00
01032	CHROMIUM, HEXAVALENT	Fresh Acute	16.	27	0	0.00	9	0	0.00	5	0	0.00	5	0	0.00	8	0	0.00
		Drinking Water	100.	27	0	0.00	9	0	0.00	5	0	0.00	5	0	0.00	8	0	0.00
01034	CHROMIUM, TOTAL	Drinking Water	100.	4	0	0.00	1	0	0.00							3	0	0.00
01040	COPPER, DISSOLVED	Fresh Acute	18.	54	20	0.37	31	16	0.52	7	0	0.00	1	0	0.00	15	4	0.27
		Drinking Water	1300.	54	0	0.00	31	0	0.00	7	0	0.00	1	0	0.00	15	0	0.00
01049	LEAD, DISSOLVED	Fresh Acute	82.	30 &	1	0.03	11	1	0.09	7	0	0.00	1	0	0.00	11	0	0.00
		Drinking Water	15.	27 &	2	0.07	8	2	0.25	7	0	0.00	1	0	0.00	11	0	0.00
01050	LEAD, SUSPENDED	Fresh Acute	82.	1	1	1.00										1	1	1.00
		Drinking Water	15.	1	1	1.00										1	1	1.00
01051	LEAD, TOTAL	Fresh Acute	82.	4	1	0.25	1	0	0.00							3	1	0.33
		Drinking Water	15.	4	1	0.25	1	0	0.00							3	1	0.33
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	36	0	0.00	26	0	0.00	1	0	0.00	1	0	0.00	8	0	0.00
		Drinking Water	100.	36	17	0.47	26	13	0.50	1	0	0.00	1	0	0.00	8	4	0.50

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

EPA Water Quality Criteria Analysis for Entire HOVE Study Area

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/15 Obs	7/01-10/15 Exceed	7/01-10/15 Prop.	10/16-12/31 Obs	10/16-12/31 Exceed	10/16-12/31 Prop.	1/01-3/15 Obs	1/01-3/15 Exceed	1/01-3/15 Prop.	3/16-6/30 Obs	3/16-6/30 Exceed	3/16-6/30 Prop.
01066	NICKEL, SUSPENDED	Fresh Acute	1400.	4	0	0.00	1	0	0.00							3	0	0.00
		Drinking Water	100.	4	1	0.25	1	0	0.00							3	1	0.33
01067	NICKEL, TOTAL	Fresh Acute	1400.	4	0	0.00	1	0	0.00							3	0	0.00
		Drinking Water	100.	4	1	0.25	1	0	0.00							3	1	0.33
01074	NICKEL, TOTAL RECOVERABLE IN WATER AS NI	Fresh Acute	1400.	7	0	0.00				3	0	0.00				4	0	0.00
		Drinking Water	100.	7	0	0.00				3	0	0.00				4	0	0.00
01079	SILVER, TOTAL RECOVERABLE IN WATER AS AG	Fresh Acute	4.1	23 &	0	0.00	4	0	0.00	8	0	0.00	3	0	0.00	8	0	0.00
		Drinking Water	100.	24	0	0.00	4	0	0.00	8	0	0.00	3	0	0.00	9	0	0.00
01090	ZINC, DISSOLVED	Fresh Acute	120.	54	18	0.33	31	16	0.52	7	0	0.00	1	0	0.00	15	2	0.13
		Drinking Water	5000.	54	0	0.00	31	0	0.00	7	0	0.00	1	0	0.00	15	0	0.00
01091	ZINC, SUSPENDED	Fresh Acute	120.	3	1	0.33										3	1	0.33
		Drinking Water	5000.	3	0	0.00										3	0	0.00
01092	ZINC, TOTAL	Fresh Acute	120.	4	1	0.25	1	0	0.00							3	1	0.33
		Drinking Water	5000.	4	0	0.00	1	0	0.00							3	0	0.00
01094	ZINC, TOTAL RECOVERABLE IN WATER AS ZN	Fresh Acute	120.	75	9	0.12	19	3	0.16	19	3	0.16	16	3	0.19	21	0	0.00
		Drinking Water	5000.	75	0	0.00	19	0	0.00	19	0	0.00	16	0	0.00	21	0	0.00
01113	CADMIUM,TOTAL RECOVERABLE IN WATER AS CD	Fresh Acute	3.9	70	0	0.00	19	0	0.00	16	0	0.00	16	0	0.00	19	0	0.00
		Drinking Water	5.	70	0	0.00	19	0	0.00	16	0	0.00	16	0	0.00	19	0	0.00
01114	LEAD, TOTAL RECOVERABLE IN WATER AS PB	Fresh Acute	82.	61	1	0.02	18	0	0.00	13	1	0.08	13	0	0.00	17	0	0.00
		Drinking Water	15.	61	10	0.16	18	1	0.06	13	1	0.08	13	4	0.31	17	4	0.24
01118	CHROMIUM TOTAL RECOVERABLE IN WATER AS C	Drinking Water	100.	7	0	0.00	3	0	0.00	1	0	0.00	1	0	0.00	2	0	0.00
01119	COPPER, TOTAL RECOVERABLE IN WATER AS CU	Fresh Acute	18.	60	9	0.15	18	2	0.11	12	1	0.08	13	5	0.38	17	1	0.06
		Drinking Water	1300.	60	0	0.00	18	0	0.00	12	0	0.00	13	0	0.00	17	0	0.00
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	35	2	0.06	13	2	0.15	7	0	0.00	1	0	0.00	14	0	0.00
		Drinking Water	50.	35	0	0.00	13	0	0.00	7	0	0.00	1	0	0.00	14	0	0.00
01146	SELENIUM, SUSPENDED	Fresh Acute	20.	4	1	0.25	1	0	0.00							3	1	0.33
		Drinking Water	50.	4	0	0.00	1	0	0.00							3	0	0.00
01147	SELENIUM, TOTAL	Fresh Acute	20.	64	2	0.03	17	0	0.00	14	1	0.07	12	0	0.00	21	1	0.05
		Drinking Water	50.	64	0	0.00	17	0	0.00	14	0	0.00	12	0	0.00	21	0	0.00
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	26	0	0.00	19	0	0.00	1	0	0.00				6	0	0.00
28011	URANIUM, NATURAL, TOTAL	Drinking Water	20.	17	0	0.00	5	0	0.00	6	0	0.00				6	0	0.00
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	57	51	0.89	17	13	0.76	13	12	0.92	10	9	0.90	17	17	1.00
31615	FECAL COLIFORM, MPN	Other-Hi Lim.	200.	76 &	51	0.67	21	14	0.67	20	13	0.65	14	7	0.50	21	17	0.81
31625	FECAL COLIFORM, MF	Other-Hi Lim.	200.	23 &	9	0.39	3	2	0.67	5	2	0.40	6	2	0.33	9	3	0.33
39540	PARATHION IN WHOLE WATER SAMPLE	Fresh Acute	0.065	4	0	0.00	4	0	0.00									
39720	PICLORAM IN WHOLE WATER SAMPLE	Drinking Water	500.	4	0	0.00	4	0	0.00									
39730	2,4-D IN WHOLE WATER SAMPLE	Drinking Water	70.	4	0	0.00	4	0	0.00									
39760	SILVEX IN WHOLE WATER SAMPLE	Drinking Water	50.	4	0	0.00	4	0	0.00									
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	9	1	0.11	8	1	0.13							1	0	0.00
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	25	0	0.00	6	0	0.00	7	0	0.00	1	0	0.00	11	0	0.00
		Drinking Water	2.	25	0	0.00	6	0	0.00	7	0	0.00	1	0	0.00	11	0	0.00
71895	MERCURY, SUSPENDED	Fresh Acute	2.4	4	0	0.00	1	0	0.00							3	0	0.00
		Drinking Water	2.	4	0	0.00	1	0	0.00							3	0	0.00
71900	MERCURY, TOTAL	Fresh Acute	2.4	10	0	0.00	2	0	0.00	3	0	0.00				5	0	0.00
		Drinking Water	2.	10	0	0.00	2	0	0.00	3	0	0.00				5	0	0.00

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

NPS Servicewide Inventory and Monitoring Program Level I

Water Quality Parameter Inventory Data Evaluation and Analysis:

Missing Level I Groups

No STORET Data Within the HOVE Study Area Exist for These Groups:

Chlorophyll*

*Not A Priority Parameter

NPS Servicewide Inventory and Monitoring Program Level I

Water Quality Parameter Inventory Data Evaluation and Analysis:

Present Level I Groups

STORET Data Within the HOVE Study Area Exist for These Groups:

Alkalinity		Total Obs.	01/01/85 to 03/10/97	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	69	29	33	7	21
00440	BICARBONATE ION (MG/L AS HCO3)	261	6	126	129	11
00445	CARBONATE ION (MG/L AS CO3)	261	6	127	128	11
		591	41	286	264	43 (22)[1]

pH		Total Obs.	01/01/85 to 03/10/97	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00400	PH (STANDARD UNITS)	522	127	223	172	41
00403	PH, LAB (STANDARD UNITS)	127	122	5	0	8
		649	249	228	172	49 (41)[1]

Conductivity		Total Obs.	01/01/85 to 03/10/97	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	2	0	2	0	2
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	673	140	359	174	43
		675	140	361	174	45 (44)[1]

Dissolved Oxygen		Total Obs.	01/01/85 to 03/10/97	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE (MG/L)	1	0	1	0	1
00300	OXYGEN, DISSOLVED (MG/L)	96	20	68	8	9
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION	6	6	0	0	4
		103	26	69	8	14 (14)[1]

Water Temperature		Total Obs.	01/01/85 to 03/10/97	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	724	135	322	267	35
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	87	0	44	43	1
		811	135	366	310	36 (36)[1]

Flow		Total Obs.	01/01/85 to 03/10/97	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00059	FLOW RATE, INSTANTANEOUS, GALLONS/MINUTE	3	0	0	3	3
00060	FLOW, STREAM, MEAN DAILY CFS	312	0	177	135	3
00061	FLOW, STREAM, INSTANTANEOUS CFS	176	133	43	0	7
00065	STAGE, STREAM (FEET)	105	105	0	0	1
		596	238	220	138	14 (12)[1]

Clarity/Turbidity		Total Obs.	01/01/85 to 03/10/97	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00076	TURBIDITY, HACH TURBIDIMETER (FORMAZIN TURB UNIT)	70	0	37	33	2
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	61	0	45	16	1
		131	0	82	49	3 (2)[1]

[1]Since a station can have data for more than one of the parameters in the parameter group, the number in the parenthesis is the number of unique stations having data for this parameter group.

Nitrate/Nitrogen		Total Obs.	01/01/85 to 03/10/97	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00600	NITROGEN, TOTAL (MG/L AS N)	23	0	23	0	1
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	23	0	23	0	1
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	6	6	0	0	6
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	96	0	66	30	2
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	9	6	0	3	9
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	56	0	27	29	1
00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	40	0	40	0	2
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	42	0	42	0	2
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	56	55	1	0	9
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	13	0	13	0	1
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	9	6	0	3	9
		373	73	235	65	43 (19)[!]

Phosphate/Phosphorus		Total Obs.	01/01/85 to 03/10/97	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	29	0	3	26	2
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	1	0	1	0	1
00665	PHOSPHORUS, TOTAL (MG/L AS P)	64	0	61	3	2
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	31	6	25	0	8
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	7	6	1	0	7
		132	12	91	29	20 (14)[!]

Sulfates/Total Dissolved Solids/Hardness		Total Obs.	01/01/85 to 03/10/97	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00900	HARDNESS, TOTAL (MG/L AS CACO3)	128	30	58	40	21
00945	SULFATE, TOTAL (MG/L AS SO4)	227	123	69	35	13
00946	SULFATE, DISSOLVED (MG/L AS SO4)	244	6	116	122	7
70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), (MG/L)	131	26	64	41	14
		730	185	307	238	55 (29)[!]

Bacteria		Total Obs.	01/01/85 to 03/10/97	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
31505	COLIFORM, TOT, MPN, CONFIRMED TEST,35C(TUBE 31506)	57	0	19	38	1
31615	FECAL COLIFORM, MPN, EC MED, 44.5C (TUBE 31614)	77	0	41	36	1
31625	FECAL COLIFORM, MF, M-FC, 0.7 UM	24	0	24	0	1
31673	FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR	24	0	24	0	1
		182	0	108	74	4 (2)[!]

[!]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 03/10/97	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
01000	ARSENIC, DISSOLVED (UG/L AS AS)	25	18	7	0	6
01001	ARSENIC, SUSPENDED (UG/L AS AS)	3	0	3	0	1
01002	ARSENIC, TOTAL (UG/L AS AS)	63	0	45	18	2
00998	BERYLLIUM, TOTAL RECOVERABLE IN WATER AS BE (UG/L)	6	0	6	0	1
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	7	0	7	0	1
01011	BERYLLIUM, SUSPENDED (UG/L AS BE)	1	0	1	0	1
01012	BERYLLIUM, TOTAL (UG/L AS BE)	4	0	4	0	1
01025	CADMIUM, DISSOLVED (UG/L AS CD)	31	24	7	0	12
01026	CADMIUM, SUSPENDED (UG/L AS CD)	1	0	1	0	1
01027	CADMIUM, TOTAL (UG/L AS CD)	4	0	4	0	1
01113	CADMIUM, TOTAL RECOVERABLE IN WATER AS CD (UG/L)	70	0	40	30	1
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	54	24	30	0	35
01031	CHROMIUM, SUSPENDED (UG/L AS CR)	4	0	4	0	1
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	27	0	10	17	1
01034	CHROMIUM, TOTAL (UG/L AS CR)	4	0	4	0	1
01118	CHROMIUM, TOTAL RECOVERABLE IN WATER AS CR (UG/L)	7	0	7	0	1
01040	COPPER, DISSOLVED (UG/L AS CU)	54	24	30	0	35
01119	COPPER,TOTAL RECOVERABLE IN WATER AS CU (UG/L)	60	0	43	17	1
01049	LEAD, DISSOLVED (UG/L AS PB)	53	23	30	0	34
01050	LEAD, SUSPENDED (UG/L AS PB)	1	0	1	0	1
01051	LEAD, TOTAL (UG/L AS PB)	4	0	4	0	1
01114	LEAD, TOTAL RECOVERABLE IN WATER AS PB (UG/L)	61	0	44	17	1
71890	MERCURY, DISSOLVED (UG/L AS HG)	25	18	7	0	6
71895	MERCURY, SUSPENDED (UG/L AS HG)	4	0	4	0	1
71900	MERCURY, TOTAL (UG/L AS HG)	10	0	10	0	2
01065	NICKEL, DISSOLVED (UG/L AS NI)	36	6	30	0	30
01066	NICKEL, SUSPENDED (UG/L AS NI)	4	0	4	0	1
01067	NICKEL, TOTAL (UG/L AS NI)	4	0	4	0	1
01074	NICKEL, TOTAL RECOVERABLE IN WATER AS NI (UG/L)	7	0	7	0	1
01145	SELENIUM, DISSOLVED (UG/L AS SE)	35	28	7	0	14
01146	SELENIUM, SUSPENDED (UG/L AS SE)	4	0	4	0	1
01147	SELENIUM, TOTAL (UG/L AS SE)	64	0	31	33	2
01079	SILVER, TOTAL RECOVERABLE IN WATER AS AG (UG/L)	24	0	16	8	1
01090	ZINC, DISSOLVED (UG/L AS ZN)	54	24	30	0	35
01091	ZINC, SUSPENDED (UG/L ZN)	3	0	3	0	1
01092	ZINC, TOTAL (UG/L AS ZN)	4	0	4	0	1
01094	ZINC, TOTAL RECOVERABLE IN WATER AS ZN (UG/L)	75	0	44	31	1
00723	CYANIDE, DISSOLVED STD METHOD (UG/L)	62	0	42	20	1
		959	189	579	191	239 (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.

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	591	41	6.9	22	40.7	26.9	09/08/54-09/14/94	14.8
pH	649	249	38.4	41	75.9	15.8	05/01/59-03/10/97	17.1
Conductivity	675	140	20.7	44	81.5	15.3	09/08/54-03/10/97	15.9
Dissolved Oxygen	103	26	25.2	14	25.9	7.4	05/13/70-07/13/94	4.3
Water Temperature	811	135	16.6	36	66.7	22.5	09/08/54-03/10/97	19.1
Flow	596	238	39.9	12	22.2	49.7	09/08/54-03/10/97	14.0
Clarity/Turbidity	131	0	0.0	2	3.7	65.5	03/13/68-04/01/82	9.3
Nitrate/Nitrogen	373	73	19.6	19	35.2	19.6	09/08/54-09/14/94	9.3
Phosphate/Phosphorus	132	12	9.1	14	25.9	9.4	09/18/68-09/14/94	5.1
Chlorophyll	0	0	0.0	0	0.0	0.0	No Data For Group	0.0
Sulfates/Total Dissolved Solids/Hardness	730	185	25.3	29	53.7	25.2	09/08/54-01/24/97	17.2
Bacteria	182	0	0.0	2	3.7	91.0	01/23/68-04/01/82	12.8
Toxic Elements	959	189	19.7	38	70.4	25.2	01/23/68-09/14/94	36.0

Water Quality Observations
Outside STORET Edit Criteria for HOVE

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
HOVE0033	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	940614		225.0000000	11NPSWRD	HOVE_USGS_WCP	
HOVE0040	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	700707	1705	2500.0000000	21COL001	000062	
HOVE0040	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	750310	1720	1500.0000000	21COL001	000062	
HOVE0040	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	771107	1610	12000.0000000	21COL001	000062	
HOVE0040	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	790315	1200	2800.0000000	21COL001	000062	
HOVE0040	00945	SULFATE, TOTAL (MG/L AS SO4)	691120		2996.0000000	21COL001	000062	
HOVE0040	00945	SULFATE, TOTAL (MG/L AS SO4)	741113	1600	2923.0000000	21COL001	000062	
HOVE0040	00945	SULFATE, TOTAL (MG/L AS SO4)	750108	1005	2738.0000000	21COL001	000062	
HOVE0040	00945	SULFATE, TOTAL (MG/L AS SO4)	760211	1330	2553.0000000	21COL001	000062	
HOVE0040	00945	SULFATE, TOTAL (MG/L AS SO4)	760406	0830	2530.0000000	21COL001	000062	
HOVE0040	01503	ALPHA, DISSOLVED	741113	1600	102.0000000	21COL001	000062	
HOVE0040	01503	ALPHA, DISSOLVED	751119	1215	80.0000000	21COL001	000062	
HOVE0040	01503	ALPHA, DISSOLVED	760211	1330	153.0000000	21COL001	000062	
HOVE0040	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	680123	1010	4304.0000000	21COL001	000062	
HOVE0040	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	690205	0840	4266.0000000	21COL001	000062	
HOVE0040	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	691120		5221.0000000	21COL001	000062	
HOVE0040	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	710107	0930	4135.0000000	21COL001	000062	
HOVE0040	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	741113	1600	4658.0000000	21COL001	000062	
HOVE0040	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	750108	1005	4184.0000000	21COL001	000062	
HOVE0040	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	760406	0830	4340.0000000	21COL001	000062	
HOVE0044	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	790522	1200	1500.0000000	112WRD	09372000	
HOVE0044	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	890731	1200	0.0000000	112WRD	09372000	X
HOVE0044	00400	PH (STANDARD UNITS)	881011	1130	0.0000000	112WRD	09372000	X
HOVE0044	00403	PH, LAB, STANDARD UNITS SU	900509	1040	0.0000000	112WRD	09372000	X
HOVE0044	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	790103	0940	4100.0000000	112WRD	09372000	
HOVE0057	00440	BICARBONATE ION (MG/L AS HCO3)	940914		498.0000000	11NPSWRD	HOVE_NPS_STSD	
HOVE0058	00440	BICARBONATE ION (MG/L AS HCO3)	940914		465.0000000	11NPSWRD	HOVE_NPS_STSW	
HOVE0060	00440	BICARBONATE ION (MG/L AS HCO3)	540908		822.0000000	112WRD	372100109043001	
HOVE0061	00440	BICARBONATE ION (MG/L AS HCO3)	590501		529.0000000	112WRD	372313109044601	

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) HOVETABS.ZIP

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

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

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

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

(d) HOVEOV0.DOC - Overview of park and retrieved data.

(e) HOVEOV1.DOC - Station period of record table.

(f) HOVEOV2.DOC - Parameter period of record table.

(g) HOVEOV3.DOC - Station/parameter period of record table.

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

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

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

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

(l) HOVEBAD.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 HOVEOV1.DOC is in the subdirectory C:\WATER, you could type: PRINT C:\WATER\HOVEOV1.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) HOVEFIGS.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 HOVE0001. 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 HOVE0001) 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) HOVEPARM.ZIP

This file compresses HOVEPARM.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) HOVESITE.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) HOVEWQ.DBF - All water quality monitoring station locations within the project's study area downloaded from STORET.

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

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

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

(e) HOVEDAMS.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) HOVEMISC.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) HOVEEXEC.DOC - WordPerfect Ver. 5.1 copy of the Executive Summary in the report.

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

(f) HOVEWQ - 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 (HOVEWQA, HOVEWQB, HOVEWQC, etc.) and the index map name will end with an ampersand (&).

(g) HOVEIDG - 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 (HOVEIDGA, HOVEIDGB, HOVEIDGC, 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) HOVESEHY - 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 HOVEFIGS.ZIP and HOVETABS.ZIP, you can use the PRINTZIP program to print any of the PCL files in HOVEMISC.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) HOVERF3.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) HOVEWQMW.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: HOVEPARM.DBF in HOVEPARM.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: HOVEPARM.DBF in HOVEPARM.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: HOVEPARM.DBF in HOVEPARM.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: HOVEWQ.DBF in HOVESITE.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: HOVEWQ.DBF in HOVESITE.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: HOVEIFD.DBF in HOVESITE.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: HOVEIFD.DBF in HOVESITE.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: HOVEIFD.DBF in HOVESITE.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: HOVEDRIN.DBF in HOVESITE.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: HOVEDRIN.DBF in HOVESITE.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: HOVEDRIN.DBF in HOVESITE.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: HOVEGAGE.DBF in HOVESITE.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: HOVEGAGE.DBF in HOVESITE.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: HOVEDAMS.DBF in HOVESITE.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: HOVEDAMS.DBF in HOVESITE.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: HOVEDAMS.DBF in HOVESITE.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: HOVEDAMS.DBF in HOVESITE.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 HOVERF3.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 HOVERF3.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 HOVERF3.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 HOVERF3.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 HOVERF3.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 HOVERF3.ZIP
First Line = Catalog Unit Number (8 Characters)
Subsequent Lines:
L=DDMMSS,L=DDDMMSS,L=DDMMSS,L=DDDMMSS,L=DDMMSS,L=DDDMMSS, ...
Example:
02070010
L=391259,L=0770809,L=391220,L=0770749,L=391147,L=0770715,L=391120,L=0770633,
L=391058,L=0770535,L=391042,L=0770520,L=391016,L=0770427,L=390948,L=0770416,
L=390526,L=0765331,L=390500,L=0765149,L=390456,L=0765139,L=390357,L=0765123,
...
L=390744,L=0771007,L=390826,L=0771022,L=390910,L=0771022,L=390950,L=0771003,
L=391107,L=0770922,
There can be as many as four latitude/longitude pairs per line.

The following table provides the DBASE III+ database field structure of the Water Resources Division's "encyclopedia" file that documents the minimum and maximum parameter values found and the park(s) where they occurred. This file is intended for Water Resources Division internal use, but will be available to anyone upon request after Baseline Water Quality Data Inventory and Analysis reports have been completed for all parks.

Encyclopedia File: WRD File For Internal Use Only				
Field Name	**Start**	**Stop**	**Length**	**Field Description**
PARM	1	5	5	STORET Parameter Code
PARMNAME	6	45	40	Parameter Name
MINVAL	46	61	16.7	Minimum Value
MINVALPARK	62	65	4	Park Unit with Minimum Value
MAXVAL	66	71	16.7	Maximum Value
MAXVALPARK	72	75	4	Park Unit with Maximum Value

Appendix C

STORET Water Quality Control/Edit Checking

The following table provides the high and low values used by STORET since November 1983 for 190 common water quality parameters to screen or error check data. Data entered into STORET prior to November 1983, however, were not subjected to this edit/bounds check. Additionally, data from the USGS WATSTORE system that is loaded into STORET is never subjected to these edit criteria and agencies entering data in STORET can override these edit criteria to enter data values that fall outside a range. As a consequence, all data downloaded from STORET for the purposes of this project were filtered through these edit criteria to document values outside the generally accepted ranges. Decisions were then made on a case-by-case basis to retain or discard obviously incorrect data. Refer to the Water Quality Observations Outside STORET Edit Criteria section of the Interpretive Guide To Water Quality Results chapter for more information on this subject.

STORET Code	STORET Parameter Description	High Value	Low Value
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	37.0	-2.0
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	98.0	31.0
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	52.0	-40.0
00021	TEMPERATURE, AIR (DEGREES FAHRENHEIT)	125.0	-40.0
00026	TOXICS-IDENTIFY DATA COLLECTION BY EPA DIRECTIVE	1990.9	1977.0
00032	CLOUD COVER (PERCENT)	101.0	0.0
00035	WIND VELOCITY (MILES PER HOUR)	85.0	0.0
00036	WIND DIRECTION IN DEGREES FROM TRUE N (CLOCKWISE)	361.0	0.0
00045	PRECIPITATION, TOTAL (INCHES PER DAY)	15.0	0.0
00070	TURBIDITY, (JACKSON CANDLE UNITS)	1500.0	0.0
00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	101.0	0.0
00075	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	500.0	0.0
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	1000.0	0.0
00077	TRANSPARENCY, SECCHI DISC (INCHES)	600.0	0.0
00080	COLOR (PLATINUM-COBALT UNITS)	500.0	0.0
00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	500.0	0.0
00085	ODOR (THRESHOLD NUMBER AT ROOM TEMPERATURE)	250.0	0.0
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	60000.0	1.0
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	60000.0	1.0
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE (MG/L)	30.0	0.0

STORET Code	STORET Parameter Description	High Value	Low Value
00300	OXYGEN, DISSOLVED (MG/L)	30.0	0.0
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION%	200.0	0.0
00310	BOD, 5 DAY, 20 DEG C (MG/L)	150.0	0.0
00335	COD, .025N K2CR2O7 (MG/L)	1000.0	0.0
00340	COD, .25N K2CR2O7 (MG/L)	1000.0	0.0
00365	CHLORINE DEMAND, 15 MINUTE (MG/L)	15.0	0.0
00400	PH (STANDARD UNITS)	12.0	0.9
00403	PH, LAB, STANDARD UNITS, (STANDARD UNITS)	12.0	0.9
00405	CARBON DIOXIDE (MG/L AS CO2)	100.0	0.0
00406	PH, FIELD (STANDARD UNITS)	12.0	0.9
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	1000.0	0.0
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	750.0	0.0
00435	ACIDITY, TOTAL (MG/L AS CACO3)	1000.0	0.0
00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	1000.0	0.0
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	750.0	0.0
00440	BICARBONATE ION (MG/L AS HCO3)	450.0	0.0
00445	CARBONATE ION (MG/L AS CO3)	100.0	0.0
00480	SALINITY - PARTS PER THOUSAND	40.0	0.0
00500	RESIDUE, TOTAL (MG/L)	15000.0	0.0
00505	RESIDUE, TOTAL VOLATILE (MG/L)	10000.0	0.0
00510	RESIDUE, TOTAL FIXED (MG/L)	10000.0	0.0
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C), (MG/L)	20000.0	0.0
00520	RESIDUE, VOLATILE FILTRABLE (MG/L)	10000.0	0.0
00525	RESIDUE, FIXED FILTRABLE (MG/L)	10000.0	0.0
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10000.0	0.0
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	10000.0	0.0
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	10000.0	0.0
00545	RESIDUE, SETTLEABLE (ML/L)	1000.0	0.0
00546	RESIDUE, SETTLEABLE (MG/L)	1000.0	0.0

STORET Code	STORET Parameter Description	High Value	Low Value
00550	OIL & GREASE (SOXHLET EXTRACTION) TOTAL,REC., (MG/L)	250.0	0.0
00600	NITROGEN, TOTAL (MG/L AS N)	100.0	0.0
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	15.0	0.0
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	25.0	0.0
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	20.0	0.0
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	5.0	0.0
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	50.0	0.0
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	50.0	0.0
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	55.0	0.0
00635	NITROGEN, AMMONIA & ORG., TOTAL 1 DET (MG/L AS N)	70.0	0.0
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	30.0	0.0
00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	30.0	0.0
00655	PHOSPHATE, POLY (MG/L AS PO4)	30.0	0.0
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	30.0	0.0
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10.0	0.0
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	10.0	0.0
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	100.0	0.0
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	100.0	0.0
00685	CARBON, TOTAL INORGANIC (MG/L AS C)	100.0	0.0
00690	CARBON, TOTAL (MG/L AS C)	150.0	0.0
00720	CYANIDE, TOTAL (MG/L AS CN)	10.0	0.0
00745	SULFIDE, TOTAL (MG/L AS S)	1500.0	0.0
00746	SULFIDE, DISSOLVED (MG/L AS S)	1500.0	0.0
00760	SULFITE WASTE LIQUOR, PEARL BENSON INDEX (MG/L)	150.0	0.0
00900	HARDNESS, TOTAL (MG/L AS CACO3)	5000.0	0.0
00910	CALCIUM (MG/L AS CACO3)	3000.0	0.0
00915	CALCIUM, DISSOLVED (MG/L AS CA)	1000.0	0.0
00916	CALCIUM, TOTAL (MG/L AS CA)	1000.0	0.0
00920	MAGNESIUM (MG/L AS CACO3)	3000.0	0.0

STORET Code	STORET Parameter Description	High Value	Low Value
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	1000.0	0.0
00927	MAGNESIUM, TOTAL (MG/L AS MG)	1000.0	0.0
00929	SODIUM, TOTAL (MG/L AS NA)	5000.0	0.0
00930	SODIUM, DISSOLVED (MG/L AS NA)	5000.0	0.0
00931	SODIUM ADSORPTION RATIO	50.0	0.0
00935	POTASSIUM, DISSOLVED (MG/L AS K)	175.0	0.0
00937	POTASSIUM, TOTAL MG/L AS K)	175.0	0.0
00940	CHLORIDE, TOTAL IN WATER, (MG/L)	22000.0	0.0
00945	SULFATE, TOTAL (MG/L AS SO4)	2500.0	0.0
00946	SULFATE, DISSOLVED (MG/L AS SO4)	2500.0	0.0
00950	FLUORIDE, DISSOLVED (MG/L AS F)	15.0	0.0
00951	FLUORIDE, TOTAL (MG/L AS F)	15.0	0.0
00955	SILICA, DISSOLVED (MG/L AS SI02)	2000.0	0.0
00956	SILICA, TOTAL (MG/L AS SI02)	2000.0	0.0
01000	ARSENIC, DISSOLVED (UG/L AS AS)	5000.0	0.0
01002	ARSENIC, TOTAL (UG/L AS AS)	5000.0	0.0
01005	BARIUM, DISSOLVED (UG/L AS BA)	2000.0	0.0
01007	BARIUM, TOTAL (UG/L AS BA)	2000.0	0.0
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	2000.0	0.0
01012	BERYLLIUM, TOTAL (UG/L AS BE)	2000.0	0.0
01020	BORON, DISSOLVED (UG/L AS B)	5000.0	0.0
01022	BORON, TOTAL (UG/L AS B)	5000.0	0.0
01025	CADMIUM, DISSOLVED (UG/L AS CD)	500.0	0.0
01027	CADMIUM, TOTAL (UG/L AS CD)	500.0	0.0
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	2000.0	0.0
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	2000.0	0.0
01033	CHROMIUM, TRI-VAL (UG/L AS CR)	2000.0	0.0
01034	CHROMIUM, TOTAL (UG/L AS CR)	2000.0	0.0
01040	COPPER, DISSOLVED (UG/L AS CU)	2000.0	0.0

STORET Code	STORET Parameter Description	High Value	Low Value
01042	COPPER, TOTAL (UG/L AS CU)	5000.0	0.0
01045	IRON, TOTAL (UG/L AS FE)	56000.0	0.0
01046	IRON, DISSOLVED (UG/L AS FE)	56000.0	0.0
01047	IRON, FERROUS (UG/L AS FE)	56000.0	0.0
01049	LEAD, DISSOLVED (UG/L AS PB)	1000.0	0.0
01051	LEAD, TOTAL (UG/L AS PB)	1000.0	0.0
01055	MANGANESE, TOTAL (UG/L AS MN)	5000.0	0.0
01056	MANGANESE, DISSOLVED (UG/L AS MN)	5000.0	0.0
01065	NICKEL, DISSOLVED (UG/L AS NI)	2000.0	0.0
01067	NICKEL, TOTAL (UG/L AS NI)	2000.0	0.0
01075	SILVER, DISSOLVED (UG/L AS AG)	5000.0	0.0
01077	SILVER, TOTAL (UG/L AS AG)	5000.0	0.0
01090	ZINC, DISSOLVED (UG/L AS ZN)	25000.0	0.0
01092	ZINC, TOTAL (UG/L AS ZN)	25000.0	0.0
01105	ALUMINUM, TOTAL (UG/L AS AL)	20000.0	0.0
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	20000.0	0.0
01145	SELENIUM, DISSOLVED (UG/L AS SE)	100.0	0.0
01501	ALPHA, TOTAL	200.0	0.0
01503	ALPHA, DISSOLVED	75.0	0.0
01505	ALPHA, SUSPENDED	150.0	0.0
03501	BETA, TOTAL	3500.0	0.0
03503	BETA, DISSOLVED	3000.0	0.0
03505	BETA, SUSPENDED	1500.0	0.0
09503	RADIUM 226, DISSOLVED	500.0	0.0
13501	STRONTIUM 90, TOTAL	500.0	0.0
22703	URANIUM, NATURAL, DISSOLVED	500.0	0.0
31501	COLIFORM, TOT,MEMBRANE FILTER,IMMED.M-ENDO MED, 35C	24000000.0	0.0
31502	COLIFORM, TOTAL, 10/ML	24000000.0	0.0
31503	COLIFORM, TOT,MEMBR FILTER, DELAYED,M-ENDO MED, 35C	24000000.0	0.0

STORET Code	STORET Parameter Description	High Value	Low Value
31504	COLIFORM, TOT,MEMBR FILTER,IMMED,LES ENDO AGAR, 35C	24000000.0	0.0
31613	FECAL COLIFORM, MEMBR FILTER, M-FC AGAR,44.5C, 24HR	10000000.0	0.0
31615	FECAL COLIFORM, MPN, EC MED, 44.5C (TUBE 31614)	10000000.0	0.0
31616	FECAL COLIFORM, MEMBR FILTER,M-FC BROTH, 44.5C	10000000.0	0.0
31672	FECAL STREPTOCOCCI,PLATE COUNT M-ENTER AGAR,35C48HR	500000.0	0.0
31673	FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR	500000.0	0.0
31677	FECAL STREPTOCOCCI,MPN,AD-EVA, 35C (TUBE 31678)	500000.0	0.0
31679	FECAL STREPTOCOCCI, MF M-ENTEROCOCCUS AGAR,35C,48H	500000.0	0.0
31749	PLATE COUNT, TOTAL, TPC AGAR, 20C, 48 HRS	99999999.0	0.0
31751	PLATE COUNT, TOTAL, TPC AGAR, 35C, 24 HRS	99999999.0	0.0
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	500.0	0.0
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	750.0	0.0
32212	CHLOROPHYLL-B UG/L TRICHROMATIC UNCORRECTED	1000.0	0.0
32214	CHLOROPHYLL-C UG/L TRICHROMATIC UNCORRECTED	200.0	0.0
32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	500.0	0.0
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	200.0	0.0
32219	PHEOPHYTIN RATIO(OD 663)SPECTRO,BEFORE/AFTER ACID	2.0	0.0
32221	CHLOROPHYLL A,% OF(PHEOPHYTIN A+CHL A),SPEC-ACID.	101.0	0.0
32230	CHLOROPHYLL A (MG/L)	0.5	0.0
32231	CHLOROPHYLL B (MG/L)	0.8	0.0
32232	CHLOROPHYLL C (MG/L)	0.2	0.0
32234	CHLOROPHYLL, TOTAL (A+B+C) (MG/L)	1.0	0.0
32270	CHLOROFORM EXTRACTABLES TOTAL IN MG PER LITER	5.0	0.0
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	1500.0	0.0
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	10.0	0.0
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39340	GAMMA-BHC(LINDANE),WHOLE WATER, (UG/L)	20.0	0.0
39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER, (UG/L)	20.0	0.0
39360	DDD IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0

STORET Code	STORET Parameter Description	High Value	Low Value
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39782	LINDANE IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
50060	CHLORINE, TOTAL RESIDUAL (MG/L)	5.0	0.0
60050	ALGAE, TOTAL (CELLS/ML)	700000.0	0.0
70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), (MG/L)	4000.0	0.0
70505	PHOSPHATE, TOTAL,COLORIMETRIC METHOD (MG/L AS P)	10.0	0.0
70507	PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	10.0	0.0
71850	NITRATE NITROGEN, TOTAL (MG/L AS NO3)	65.0	0.0
71886	PHOSPHORUS, TOTAL, AS PO4 - (MG/L)	30.0	0.0
71890	MERCURY, DISSOLVED (UG/L AS HG)	10.0	0.0
71895	MERCURY, SUSPENDED (UG/L AS HG)	10.0	0.0
71900	MERCURY, TOTAL (UG/L AS HG)	10.0	0.0
74010	IRON, TOTAL (MG/L AS FE)	56000.0	0.0

Appendix D

STORET Administrative Parameters

STORET Code	Description of STORET Administrative Parameters
00022	LENGTH OF EXPOSURE OF SAMPLE OR TEST - DAYS
00026	TOXICS-IDENTIFY DATA COLLECTION BY EPA DIRECTIVE
00027	CODE NO FOR AGENCY COLLECTING SAMPLE
00028	CODE NO FOR AGENCY ANALYZING SAMPLE
00029	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE
00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION
00073	SAMPLE LOC CODE DEFINED BY THERMAL STRUCT & DEPTH
00111	RATIO OF FECAL COLIFORM TO FECAL STREPTOCOCCI
00115	SAMPLE TREATMENT CODE (1=RAW,2=TREATED)
00116	INTENSIVE SURVEY IDENTIFICATION NUMBER
00145	TOTAL PRODUCTION OF PRODUCT MANUFACTURED TONS/DAY
01273	TOTAL ACID PRIORITY POLLUTANTS MG/L
01274	TOTAL BASE-NEUTRAL PRIORITY POLLUTANTS MG/L
01275	TOTAL VOLATILE PRIORITY POLLUTANTS MG/L
01365	ANALYSIS DATE (DIOXIN) (YYMMDD)
04177	SAMPLE STABILIZATION, RECOVERY TEST CODE
04178	FIELD PROTOCOL(CONFDNCE ASSIGNED FIELD SAMPLE) CODE
04179	SAMPLE STATION LOCKED CODE
04180	CONDITION OF STATION SITE CODE
04181	LABORATORY QA/QC PLAN CONFIDENCE CODE
04182	SAMPLE TYPE CODE
04183	SAMPLE REMARKS CODE
30333	BAG MESH SIZE, BEDLOAD SAMPLER, MM
34772	NPDES NUMBER, CROSS REFERENCE CODE
34785	GAGE TYPE, METHOD CODE

STORET Code	Description of STORET Administrative Parameters
45575	GC MAKE AND MODEL INFORMATION CODE
45576	GC DETECTOR TYPE CODE
45577	GC COLUMN TYPE CODE
45580	METHOD OF ANALYSIS CODE
45581	LABORATORY LOCATION CODE
46107	SAMPLE LOCATION CODE (TREATMENT PLANT OPERATION)
46390	TOXICITY CHARACTERISTIC LEACHING PROCEDURE P OR F
46396	PROCESS TO SIGNIFICANTLY REDUCE PATHOGENS YES OR NO
46397	PROCESS TO FURTHER REDUCE PATHOGENS YES OR NO
47001	PERMIT EXPIRATION DATE (JULIAN CALENDAR)
47044	OBSERVATIONS,WASTE SITE-SEVERITY OF PROBLEMS CODE
47460	SUBSAMPLE - DECIMAL FRACTION OF WHOLE NUMBER
47477	COMPOSITION AND/OR DISPOSITION OF CATCH NUM CODE
70231	CURRENT DIRECTION (DEGREES FROM DOWNSTREAM FLOW)
71999	SAMPLE PURPOSE CODE
72032	NUMBER OF SPILLWAY GATES OPEN
73672	DATE OF ANALYSIS YYMMDD
73673	DATE OF EXTRACTION YYMMDD
74031	GRANT, PROJECT COST ELIGIBLE FOR CONSTRUCTION
74032	GRANT, AMOUNT OF PL 660 GRANT FOR THIS PROJECT
74033	GRANT, FEDERAL, OTHER THAN PL 660 GRANT
74034	GRANT, FUTURE PL 660 WHICH MAY APPLY TO THIS PROJ
74035	GRANT, TOTAL FEDERAL, WHICH APPLIES TO THIS PROJ
74036	GRANT, PROJ NUMBER ASSIGNED TO THIS APPLICATION
74037	GRANT, TYPE OF PROJECT TO WHICH GRANT APPLIES
74038	GRANT, STATUS OF PROJECT TO WHICH GRANT APPLIES
74039	PCS/STORET WATER QUALITY FILE INTERFACE YR/MO/DAY
74040	SURVEY NUMBER YYMMNO
74041	STORET STORAGE TRANSACTION DATE YR/MO/DAY

STORET Code	Description of STORET Administrative Parameters
74050	RADIOACTIVITY, GENERAL (PERMIT)
74051	ALGICIDES, GENERAL (PERMIT)
74052	CHLORINATED HYDROCARBONS, GENERAL (PERMIT)
74053	PESTICIDES, GENERAL (PERMIT)
74056	COLIFORM, TOTAL, GENERAL (PERMIT)
74065	STREAM FLOW CLASS
74066	ANNUAL RUNOFF
74067	SOIL CLASSIFICATION
74068	WATER QUALITY DESIGNATED USE CLASSIFICATION (IA)
74100	PRIMARY 1972 SIC CODE
74101	SECONDARY 1972 SIC CODE
74102	SECONDARY 1972 SIC CODE
74103	SECONDARY 1972 SIC CODE
74200	SAMPLE PRESERVATION METHODS ONE OR MORE IN COMB.
74205	LAND RESOURCE AREA (IOWA)
74206	SOIL EROSION POTENTIAL (IOWA)
74209	WATER QUALITY INDEX - STATE OF ILLINOIS, EPA
74210	FOREST STREAM WATER QUALITY INDEX CALC. NUMBER
74990	FISH SPECIES NUMERIC CODE - F&W SERVICE
74995	ANATOMY CODE
75000	SPECIES CODE-REMARK=SEX (M=MALE,F=FEMALE,U=UNK.)
81028	WITHDRAWAL OF GROUNDWATER (MILLION GAL/DAY)
82258	WATER CLASSIFICATION CODE (1-9) CODE
82292	DATA RELAY GROUND STATION SOURCE NODE CODE, CODE
82309	CONTAMINATION SOURCE POSSIBLE CODES NUMERIC CODE
82310	DEPTH CONFIDENCE IN REPORTED VALUES NUMERIC CODES
82373	FREQUENCY OF SAMPLING M=MON,Q=QUAR,Y=YR,R=RNFFCODE
82519	DRILLER REGISTRATION NUMBER ALPHA-NUMERIC CODE
82562	NARRATIVE REQUIREMENT EXCEEDANCES INTEGER

STORET Code	Description of STORET Administrative Parameters
82576	DAILY EXCURSION TIME, WATER MIN
82577	MONTHLY EXCURSION TIME, WATER TOTAL MIN
82578	DAY/MAXIMUM EXCURSION TIME, WATER MIN
82579	CODE NUMBER FOR PERSON COLLECTING SAMPLE
84002	CODE, GENERAL INFORMATION - ALPHA, NUMERIC CODE
84003	WATER SHED ID NUMBER (IOWA)
84005	FISH SPECIES CODE-FISH & WILDLIFE SER
84006	OWNERSHIP CLASSIFICATION OF LAKE, ILLINOIS SYSTEM
84010	PUBLIC ACCESS TO LAKE ILLINOIS SYSTEM
84011	CONFIDENCE CODE FOR GLC CONFIRMATION CODE
84012	PATIENT PARAMETERS (AGE, SEX, WT, ETC.) CODE
84013	SAMPLE PARAMETERS D=DESIGN SPECIMEN, S=SURPLUS
84027	CODE NUMBER FOR AGENCY COLLECTING SAMPLE
84028	CODE NO FOR AGENCY ANALYZING SAMPLE
84029	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE FIELD
84033	EGD ANALYTICAL DATA COMPLETENESS Y=YES N=NO CODE
84034	EGD SMPL NO.(SMPL.IDENT) NUMERIC=SCS ALPH+4NUM=JRB
84035	EGD SAMPLE CLASSIFICATION CATEGORY ALPHA CODE
84036	EGD INDUSTRIAL CATEGORY NUMERIC CODE
84037	EGD INDUSTRIAL CATEGORY NAME ALPHA CODE
84038	EGD LABORATORY NUMERIC CODE
84039	EGD LABORATORY NAME ALPHA CODE
84040	EGD SAMPLE STATUS (1-5,9,AND BLANK) NUMERIC CODE
84041	EGD ACID STATUS (1-5,9,AND BLANK) NUMERIC CODE
84042	EGD BASE STATUS (1-5,9AND BLANK) NUMERIC CODE
84043	EGD PESTICIDE STATUS (1-5,9,AND BLANK) NUMERIC CODE
84044	EGD VOA FRACT. STATUS INDICATOR (1-5,9,BLANK) CODE
84045	EGD ACID EXTRACT DATE (YYMMDD) NUMERIC CODE
84046	EGD BASE EXTRACTION DATE (YYMMDD) NUMERIC CODE

STORET Code	Description of STORET Administrative Parameters
84047	EGD PESTICIDE EXTRACTION DATE (YYMMDD) NUMERIC CODE
84048	EGD VOA FRACTION INJECTION DATE YYMMDD NUMERIC CODE
84049	EGD ACID CONC. FACTOR (FIVE NUMERIC DIGITS) CODE
84050	EGD BASE CONC.FACTOR (FIVE NUMERIC DIGITS) CODE
84051	EGD PESTICIDE CONC.FACTOR (FIVE NUMERIC DIGITS) CODE
84052	EGD VOA FRACTION CONC. FACTOR (5 NUMERIC DIGITS) CODE
84053	SAMPLE TYPE AND FREQUENCY OF COLLECTION CODE
84054	LITHOLOGY ALPHA-NUMERIC CODE
84055	AVAILABLE LOGS ALPHA-NUMERIC CODE
84056	WATER USE CATEGORY ALPHA-NUMERIC CODE
84057	INSPECTION TYPE ALPHA-NUMERIC CODE
84058	HYDROGEOLOGIC SYSTEM ALPHA-NUMERIC CODE
84059	WELL OWNERSHIP ALPHA-NUMERIC CODE
84060	TOPOGRAPHY ALPHA-NUMERIC CODE
84061	WELL USE ALPHA-NUMERIC CODE
84062	MEASURING POINT DESCRIPTION ALPHA-NUMERIC CODE
84063	DRILLING METHOD ALPHA-NUMERIC CODE
84064	WELL DATA AVAILABILITY ALPHA-NUMERIC CODE
84065	PERMIT COMPLIANCE DATA ALPHA-NUMERIC CODE
84067	NATURE OF MONITORING ALPHA-NUMERIC CODE
84073	REPLACES EXISTING WELL ALPHA-NUMERIC CODE
84074	AQUIFER TYPE (SEE USGS HANDBOOK) ALPHA CODE
84075	WELL PERMIT NUMBER ALPHA-NUMERIC CODE
84076	TSD MONITORING WELL TYPE ALPHA CODE
84077	TSD MONITORING WELL SAMPLING METHOD ALPHA CODE
84083	POLLUTION VERIFICATION ALPHA CODE
84084	WELL SAMPLE PURPOSE ALPHA CODE
84090	SAMPLE FILE CONTROL PROJECT IDENTIFICATION A-CODE
84091	INFILTRATION DATE/BEGINNING 'YYMMDD'

STORET Code	Description of STORET Administrative Parameters
84092	INFILTRATION DATE/ENDING 'YYMMDD'
84093	ENFORCEMENT FORM #2-C,DATA IDENTIFICATION CODE
84102	SAMPLE SPECIES-SUB ID ALPHA CODE
84103	DIOXIN LABORATORY ALPHA CODE
84104	DIOXIN STUDY ALPHA CODE
84112	SOURCE OF GEOHYDROLOGIC DATA CODE
84119	SOURCE OF EVACUATION DATA CODE
84121	REGULATING AGENCY CODE
84122	SAMPLE PURPOSE CODE
84126	SOURCE OF DEPTH DATA CODE
84127	METHOD OF DEPTH MEASUREMENT CODE
84128	SOURCE OF WATER-LEVEL DATA CODE
84129	DATA QUALITY
84141	LAKE, PHYSICAL CONDITION AT SAMPLE TIME, 1-5, CODE
84142	LAKE,RECREATIONAL SUITABILITY @ SMPL TIME,1-5, CODE
84164	SAMPLER TYPE, CODE
85300	PROBLEM CODE NES SURVEY
85327	WATER LEVEL AT SAMPLE COLLECTION TIME-CODE-NES
85332	CLOUD COVER AT SAMPLE COLLECTION TIME-CODE-NES
85553	WELL COMPLETION DATE (MONTH/YEAR)
85554	WELL WORKOVER DATE, LATEST (MONTH/YEAR)

Appendix E

STORET Parameters Not Suitable for Statistical Analysis

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
00001	X-SEC. LOC., HORIZ (FT. FROM R BANK LOOK UPSTR.)
00002	X-SEC. LOC., HORIZ (% FROM R BANK LOOK UPSTR.)
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)
00005	X-SEC. LOC., VERTICAL (PERCENT OF TOTAL DEPTH)
00006	DISTANCE FROM LOCATION IN X MILES
00007	DISTANCE FROM LOCATION IN Y MILES
00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE
00009	X-SEC. LOC.(FT FROM LEFT BANK LOOKING DOWNSTRM)
00027	CODE NO FOR AGENCY COLLECTING SAMPLE
00028	CODE NO FOR AGENCY ANALYZING SAMPLE
00033	WEATHER CODE FOR OCEAN-OBSERV. (WMO CODE 4677)
00037	WIND FORCE (BEAUFORT UNITS)
00038	WIND DIRECTION (WMO CODES 0885 + 0887)
00041	WEATHER (WMO CODE 4501)
00042	ALTITUDE IN FEET ABOVE MEAN SEA LEVEL
00043	CLOUD TYPE (WMO CODE 0500)
00044	CLOUD AMOUNT (WMO CODE 2700)
00047	TOTAL PARTIAL PRESSURE DISSOLVED GASES (MM HG)
00048	TOTAL PARTIAL PRESSURE DISSOLVED GASES (% SAT)
00049	SURFACE AREA IN SQUARE MILES
00050	EVAPORATION, TOTAL (INCHES PER DAY)
00051	SURFACE AREA IN SQUARE FEET
00053	SURFACE AREA, ACRES
00054	RESERVOIR STORAGE - ACRE FEET
00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION
00067	TIDE STAGE

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
00069	SEA WAVES(0=NONE;1=0-3";2=4-20";3=21-48";4=4-8')
00097	SAMPLING STATION LOCATION, VERTICAL (FEET)
00098	SAMPLING STATION LOCATION, VERTICAL (METERS)
00111	RATIO OF FECAL COLIFORM TO FECAL STREPTOCOCCI
00115	SAMPLE TREATMENT CODE (1=RAW,2=TREATED)
01300	OIL-GREASE (SEVERITY)
01305	DETERGENT SUDS (SEVERITY)
01310	GAS BUBBLES (SEVERITY)
01315	SLUDGE, FLOATING (SEVERITY)
01320	GARBAGE, FLOATING (SEVERITY)
01325	ALGAE, FLOATING MATS (SEVERITY)
01330	ODOR, ATMOSPHERIC (SEVERITY)
01331	TASTE (SEVERITY)
01335	SEWAGE SOLIDS, FRESH, FLOATING (SEVERITY)
01340	FISH, DEAD (SEVERITY)
01345	DEBRIS, FLOATING (SEVERITY)
01350	TURBIDITY (SEVERITY)
01351	FLOW, STRM,1DRY,2LOW,3NORM,4FLOOD,5ABOVE NORM,CODE
01355	ICE COVER, FLOATING OR SOLID (SEVERITY)
03595	BIOASSAY (96 HR), EFFLUENT, TOTAL CODE
03596	BIOASSAY (48 HR), EFFLUENT, TOTAL CODE
03597	BIOASSAY (24 HR), EFFLUENT, TOTAL CODE
03598	TOXICITY, EFFLUENT, TOTAL CODE
03599	TOXICITY, CHOICE OF SPECIES, EFFLUENT CODE
03600	TOXICITY, TROUT, EFFLUENT, TOTAL CODE
03601	TOXICITY, SAND DOLLAR, EFFLUENT CODE
03602	BIOCHEMICAL OXYGEN DEMAND, EFFLUENT, TOTAL CODE
03603	SOLIDS, TOTAL SUSPENDABLE, EFFLUENT, TOTAL CODE
03605	FLOW METER CALIBRATION, WATER CODE

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
03717	ONCORHYNCHUS MYKISS, WATER CODE
04117	TETHER LINE USED FOR COLLECTING SAMPLE CODE
04160	HALOCARBONS, PURGEABLE, SCAN, EFFLUENT CODE
04161	HALOCARBONS, PURGEABLE, SCAN, SLUDGE CODE
04162	AROMATIC, PURGEABLE, SCAN, EFFLUENT CODE
04163	AROMATIC, PURGEABLE, SCAN, SLUDGE CODE
04164	PHENOLIC, TOTAL, SCAN, EFFLUENT CODE
04165	PHENOLIC, TOTAL, SCAN, SLUDGE CODE
04166	PCB, TOTAL, SCAN, EFFLUENT CODE
04167	PCB, TOTAL, SCAN, SLUDGE CODE
04174	FREE LIQUIDS IN SEWAGE SLUDGE CODE
34765	AVIAN NUMERICAL SPECIES CODE (BIRDS)
34766	MAMMALIAN NUMERICAL SPECIES CODE
34771	MACROPHYTE, INSTREAM, VISUAL SIGHTING CODE
34773	ODOR, AMBIENT WATER CODE
34774	FISH, INSTREAM, VISUAL SIGHTING CODE
34775	STREAMBANK CHANNEL ALTERATIONS CODE
34776	HYDRAULIC STRUCTURES, INSTREAM CODE
34780	LAND USE, ADJACENT STREAM CODE
34781	SAMPLE POINTS, # OF LONGTDNL TRANSECTS, REACH CODE
34782	STREAM STAGE TREND CODE
34789	HABITATS, TYPES SAMPLED CODE
45613	FLOATING SOLIDS/VISIBLE FOAM, VISUAL, YES=1, NO=0, CODE
45614	SANITARY WASTE DISCHARGE ASSESSMENT, YES=1, NO=0, CODE
45615	INTERMITTENT DISCHARGE ASSESSMENT, YES=1, NO=0,CODE
46001	WATER APPEARANCE CODE (BASED ON FIELD ASSESSMENT)
46478	EQUIPMENT INSPECTION, VISUAL CODE
46486	TOXICITY,ACUTE 24HR(STATIC)CERIODAPHNIA (P/F) CODE
47454	FLOW METER REVOLUTIONS NUMBER

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
47455	LATITUDE, STARTING, OF A SAMPLE TOW DDMMSS
47456	LONGITUDE, STARTING, OF A SAMPLE TOW DDDMMSS
47457	LATITUDE, FINISHING, OF A SAMPLE TOW DDMMSS
47458	LONGITUDE, FINISHING, OF A SAMPLE TOW DDDMMSS
47459	LENGTH FREQUENCY NUMBER
47461	TIME THAT THE EQUIPMENT WAS SAMPLING MINUTES
47476	DIRECTION OF TOW IN RELATION TO CURRENT NUM CODE
50044	HYDROGRAPH LIMB, 1BASE, 2RISING, 3PEAK, 4FALLING, CODE
61390	DIATOMS,FIRST DOMINANT SPECIES OF UNITS - CODE
61391	DIATOMS,SECOND DOMINANT SPECIES OF UNITS - CODE
61392	DIATOMS,THIRD DOMINANT SPECIES OF UNITS - CODE
61393	DIATOMS,FOURTH DOMINANT SPECIES OF UNITS - CODE
70220	WAVE DIRECTION (WMO CODES 0885 + 0887)
70222	WAVE HEIGHT (WMO CODE 1555)
70223	WAVE PERIOD (WMO CODE 3155)
71090	BIVALVE SPECIES CODE
71500	EQUITABILITY INDEX,BENTHIC MACROINVER CODE
72000	ELEVATION OF LAND SURFACE DATUM (FT. ABOVE MSL)
72001	DEPTH, TOTAL OF HOLE (FT BELOW LAND SURFACE DATUM)
72002	DEPTH TO TOP OF WATER-BEARING ZONE SAMPLED (FT)
72003	DEPTH TO BOTTOM OF WATER-BEARING ZONE SAMPLED (FT)
72004	PUMP OR FLOW PERIOD PRIOR TO SAMPLING MINUTES
72005	SAMPLE SOURCE CODE (BM WELL DATA)
72006	SAMPLING CONDITION CODE (BM WELL DATA)
72007	FORMATION NAME CODE (BM WELL DATA)
72017	SERIES CODE (BM WELL DATA)
72018	SYSTEM CODE (BM WELL DATA)
72111	DIRECT READOUT GROUND STATN TRANSMIT EROR CODE NUM
74054	FECAL STREPTOCOCCI, GENERAL (PERMIT)

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
74055	FECAL COLIFORM, GENERAL (PERMIT)
80889	ACTIVATED SLUDGE PROCESS MODIFICATION CODE
81024	DRAINAGE AREA IN SQUARE MILES (SQ. MI.)
81637	SHELLFISH SPECIES NUMERIC CODE
82289	LAGOON OBSERVATION, VISUAL, Y=YES N=NO CODE
82398	SAMPLING METHOD (CODES)
82524	STORAGE COEFFICIENT NUMERICAL CODE
82923	ATMOSPHERIC DEPOSITION TYPE, WET CODE
83205	ATMOSPHERIC DEPOSITION TYPE, BULK CODE
84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)
84001	AQUIFER NAME CODE (SEE USGS CATALOG)
84004	LAKE TYPE ILLINOIS CLASSIFICATION SYSTEM
84007	ANATOMY ALPHA CODE
84008	LIFE STYLE/HABITAT OF THE INDIVIDUALS IN THE SAMPLE
84009	SHELLFISH SPECIES ALPHANUMERIC CODE
84014	SPECIES SEX CODE
84030	CLOUD AMOUNT ALPHA WEATHER CODES
84031	PHYSICAL WEATHER ALPHA WEATHER CODES
84032	STREAM CONDITION ALPHA WEATHER CODES
84066	OIL AND GREASE, VISUAL, ALPHA-NUMERIC CODE
84068	SERIES CODE ALPHA-NUMERIC CODE
84069	FORMATION CODE ALPHA-NUMERIC CODE
84070	METHOD OF TESTING WELL YIELD ALPHA-NUMERIC CODE
84071	WATER LEVEL MEASUREMENT CONDITIONS ALPHA-NUM CODE
84072	WATER LEVEL MEASUREMENT METHOD ALPHA-NUMERIC CODE
84078	GIARDIA LAMBLIA, 2HSO4 OR SUC GRAD, MICRO, CODE
84079	BACTERIA, CELLUOLYTIC, AEROBIC-ANAEROBIC, RT 5-7, CODE
84080	BACTERIA, HYDROCARBONOCLASTIC, SHAKE INC 32C/WK, CODE
84081	YERSINIA ENTEROCOLITICA, SB BROTH, MAC AGAR,22C, CODE

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
84082	SALMONELLA/SHIGELLA, QUANT OR QUAL, HVF OR SWAB, CODE
84085	ORGANICS, VOLATILE, DETECTED, NUMERIC CODE, CODE
84086	MACROINVERTEBRATE SPECIES NUMERIC CODE
84087	MACROINVERTEBRATE HABITAT CODE
84088	BIOLOGY 1 MACROINVERTEBRATE CODE
84089	BIOLOGY 2 MACROINVERTEBRATE CODE
84094	PHYTOPLANKTON SPECIES CODE, NUMERIC
84095	PHYTOPLANKTON SPECIES CODE, ALPHA
84096	SEVERITY OF NON-PLANKTON ALGAE-MAT COVERAGE CODE
84097	LAGOON MOUTH CONDITION CODE
84098	COLOR OF NON-PLANKTONIC ALGAE CODE
84099	WATER - RELATIVE WATER LEVEL CODE
84100	SEX(1-MALE,2-FEMALE,3-MIXED,4-UNKNOWN) NUM CODE
84101	METAFORM, BENTHIC, ADULT(A), PUPAE(P), LARVAE(L) CODE
84105	OIL-SEPARATOR OBSERVATION ASSESS (0=DID NOT,1=DID)
84106	EVAPORAT/BED OBS ASSESS (0=DID NOT LOOK, 1=DID LOOK)
84107	AREA INSPECTION, VISUAL (0=DID NOT, 1=DID) CODE
84108	DRAIN FIELD INSPECTION ASSESS (0=DID NOT, 1=DID) CODE
84109	SLUDGE BUILD-UP IN WATER (0=DID NOT OBS, 1=OBS) CODE
84110	POND OBSERVATION ASSESS WATER (0=DID NOT, 1=DID) CODE
84111	LITHOLOGIC MODIFIER CODE
84113	WELL INTAKE FINISH CODE
84114	WELL CASING MATERIAL CODE
84115	TYPE OF MATERIAL FROM WHICH OPENING IS MADE CODE
84116	DRILLING FLUID CODE
84117	TYPE OF SURFACE SEAL CODE
84118	METHOD OF DEVELOPMENT CODE
84120	PACKING MATERIAL CODE
84124	METHOD OF EVACUTAION CODE

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
84125	METHOD OF WATER-LEVEL MEASUREMENT CODE
84130	OUTFALL OBSERVATION, VISUAL, Y=YES N=NO CODE
84131	SAMPLING METHOD, CONFIDENCE CODE (A,B,C,D) CODE
84132	STREAMBANK, VEGETATIVE STABILITY RATING CODE
84133	STREAMBANK, STABILITY (BANK EROSION) RATING CODE
84134	PARTICLES, DEGREE SURROUNDED BY FINE SEDIMENT, CODE
84135	STREAMSIDE, (SHORELINE) COVER RATING CODE
84136	CANOPY TYPE CODE
84137	CHANNEL STABILITY RATING CODE (E,G,F,P) CODE
84138	COLIFORM, TOTAL, WATER, WHOLE, MPN, PRES=1, ABSNT=2, CODE
84139	ENTEROBACTER AGGLOMERANS, WTR, MF, PRES=1, ABSNT=2, CODE
84140	KLEBSIELLA PNEUMONIAE, WTR, WH, MF, PRES=1, ABSNT=2, CODE
84143	WELL, PURGING CONDITION CODE
84144	WELL, SELECTION CRITERIA CODE
84145	PROJECT COMPONENT CODE
84146	LAND USE, PREDOMINANT, WITHIN 100 FT OF WELL, CODE
84147	LAND USE, PREDOMINANT, 1/4 MI.RADIUS OF WELL, CODE
84148	LAND USE, PREDMNT., FRAC., WITHIN 1/4 MI OF WELL, CODE
84149	LAND USE, CHANGE, LAST 10 YRS, WITHIN 1/4MI WELL, CODE
84150	HABITAT QUALITY INDEX RATING CODE
84151	AQUATIC LIFE, USE CLASSES CODE
84152	STREAM, STAGE CLASS CODE
84153	STREAMBANKS, GRAZING DAMAGE CODE
84154	CHANNEL, MAJOR ALTERATIONS CODE
84155	RIFFLE/RUNS, OCCURRENCE CODE
84156	POOL, DESCRIPTION CODE
84157	SANDBARS, LARGE, OCCURRENCE CODE
84158	LAND USE, NEAR STREAM, PREDOMINANT CODE
84159	STREAM,COVER (INSTREAM SHELTER FOR ADULT FISH), CODE

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
84160	STREAM, DEGRADATION RATING CODE
84161	STREAM, ORDER CODE
84162	LAND RESOURCE AREA CODE
84163	FLOW, STREAM, CLASSIFICATION CODE
84165	DISCHARGE EVENT OBSERVATION, YES=1 NO=0, CODE
84166	STORM HYDROGRAPH, DIRECTION, (RISE,FALL), CODE
84167	MICROSCOPIC EXAMINATION CODE
84168	AVIAN SPECIES ALPHA CODE (BIRDS)
84169	MAMMALIAN ALPHA SPECIES CODE
84170	ALPHA AGE TEXT CODE
84200	LATITUDE/LONGITUDE COORDINATES OF WELL, METHOD CODE
84201	NATIONAL REFERENCE DATUM, ALTITUDE(VERTICAL) CODE
84202	ALTITUDE METHOD CODE
85000	STREAM MILE, ACTUAL MILES
85014	HABITAT, 1970 ACRES THIS TYPE FOR THIS STATION
85015	HAB., ESTIMATED ACRES THIS TYPE THIS STATION
85016	HAB., ESTIMATED ACRES THIS TYPE THIS STA. BY 1990
85017	HAB., ESTIMATED ACRES THIS TYPE THIS STA. BY 2000
85018	TYPE CODES: 1=CLEAR CUT/2=SELECT CUT/3=RNGE DEVLP
85019	ACRES, NO. ALTERED FROM 1965-1970 (0-5 YEARS OLD)
85020	ACRES, NO. ALTERED 1960-1965 (5-10 YEARS OLD)
85021	ACRES, NO. ALTERED 1955-1960 (10-15 YEARS OLD)
85022	ACRES, NO. ALTERED 1950-1955 (15-20 YEARS OLD)
85023	ACRES, NO. ALTERED BEFORE 1950 (20+ YEARS OLD)
85024	ACRES,PREDICTED YRLY.AVE.TO BE ALTERED IN FUTURE
85025	LANDOWNERS, CODES FOR ALL IN STATE OF OREGON
85026	ACRES, CURRENT OWNED THIS LANDOWNER THIS STATION
85027	ACRES, ESTIMATED OWNED BY L-O THIS STA. BY 1980
85028	ACRES, ESTIMATED OWNED BY L-O THIS STA. BY 1990

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
85029	ACRES, ESTIMATED OWNED BY L-O THIS STA. BY 2000
85030	LAND USES, CODES FOR ALL IN STATE OF OREGON
85031	ACRES, CURRENT DEDICATED TO THIS USE THIS STATION
85032	ACRES, ESTM. DEDICTD TO THIS USE THIS STA BY 1980
85033	ACRES, ESTM. DEDICTD TO THIS USE THIS STA BY 1990
85034	ACRES, ESTM. DEDICTD TO THIS USE BY YR.2000 --STA.
85035	HAB., INDICATED ANIMAL USES THIS TYPE IN WINTER
85036	HAB., INDICATED ANIMAL USES THIS TYPE IN SPRING
85037	HAB., INDICATED ANIMAL USES THIS TYPE IN SUMMER
85038	HAB., INDICATED ANIMAL USES THIS TYPE IN FALL
85039	HAB., INDICATED ANML USES THIS TYPE FOR WINTERING
85040	HAB., INDICATED ANML USES THIS TYPE FOR FEEDING
85041	HAB., INDICATED ANML USES TYPE FOR REARING YOUNG
85042	HAB., INDICATED BIRD USES THIS TYPE FOR NESTING
85043	HAB., INDICATED ANML USES THIS TYPE FOR SHELTER
85044	HAB., INDICATED ANML USES THIS TYPE FOR REST AREA
85045	ANML, SHOWS PRESENCE/ABSNC OF COMMENTS ON THIS ANML
85046	HAB.,ACRES OCCUPIED BY THIS ANML THIS UNIT & CO.
85050	ANIMALS ARE NOT PRESENT THIS STATION
85051	ANIMALS, ONLY A FEW ARE PRESENT THIS STATION
85052	ANIMALS COMMONLY SEEN; USE MODERATE THIS STATION
85053	ANIMALS FREQUENTLY SEEN; USE HEAVY THIS STATION
85070	OWNERSHIP (.1) AND ACCESS (.2) BY YEAR
85071	PRIVATE OWNERSHIP AND ACCESS MILEAGE
85072	FEDERAL OWNERSHIP AND ACCESS MILEAGE
85073	STATE OWNERSHIP AND ACCESS MILEAGE
85074	COUNTY OWNERSHIP AND ACCESS MILEAGE
85075	CITY OWNERSHIP AND ACCESS MILEAGE
85076	WATER YEAR DATA REFERS TO

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
85077	CALENDAR YEAR DATA REFERS TO
85088	MONTHS POLLUTION IS A PROBLEM JAN THRU JUNE
85089	MONTHS POLLUTION IS A PROBLEM JULY TO DECEMBER
85090	MAN-CAUSED CHANNEL CHANGE IN MILES
85091	STREAM BANK HABITAT DESTROYED IN MILES
85092	STREAMBED SILTED IN MILES
85093	TURBIDITY PROBLEM IN MILES
85094	SEVERITY: 1=ELIMINATES 2=INTERFERES 3=NO PROBLEM
85095	DURATION OF TURBIDITY PROBLEM IN MONTHS
85096	SEASON OF NATURAL DRY CHANNEL 1=SP 2=SU 3=F 4=W
85097	NATURAL DRY CHANNEL IN MILES
85098	MAN-CAUSED DRY CHANNEL SEASON 1=SP 2=SU 3=F 4=W
85099	MAN-CAUSED DRY CHANNEL IN MILES
85100	YEAR BARRIER IS PRESENT
85101	NUMBER OF NATURAL BARRIERS
85102	MILES BLOCKED BY NATURAL BARRIERS
85103	NUMBER OF NATURAL BARRIERS TO BE REMOVED
85104	NUMBER OF DAMS AND MAN CAUSED OBSTRUCTIONS
85105	MILES BLOCKED BY DAMS OR MAN CAUSED OBSTRUCTIONS
85106	NUMBER OF DAMS TO BE ALTERED
85107	MILES OF STREAM OCCUPIED BY IMPOUNDMENT
85108	LOWER END OF SECTION COVERED BY THIS FORM
85109	UPPER END OF SECTION COVERED BY THIS FORM
85110	LOWER LIMIT THIS SPECIES THIS FORM BY RIVER MILE
85111	UPPER LIMIT THIS SPECIES THIS FORM BY RIVER MILE
85112	STREAM SURVEY:1=COMPLETE 2=INCOMPLETE 3=NONE
85113	ABUNDANCE: 1=FSHWY/TAG&R 2=SURVEY 3=EST PLUS 4=EST
85114	ABUNDANCE: N=S&ST 1=ABUNDANT 4=SCARCE RGH FSH 3=SCARCE
85116	SQUARE YARDS OF SPAWNING AREA IN 1970

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
85117	SQUARE YARDS OF SPAWNING AREA IN 1980
85118	SQUARE YARDS OF SPAWNING AREA IN 1990
85119	SQUARE YARDS OF SPAWNING AREA IN 2000
85120	MILES OF REARING AREA IN 1970
85121	MILES OF REARING AREA IN 1980
85122	MILES OF REARING AREA IN 1990
85123	MILES OF REARING AREA IN 2000
85124	CATCH BY SPORT ANGLING IN 1970
85125	RECREATION DAYS SPENT ANGLING IN 1970
85126	RECREATION DAYS SPENT ANGLING IN 1980
85127	RECREATION DAYS SPENT ANGLING IN 1990
85128	RECREATION DAYS SPENT ANGLING IN 2000
85129	CONTRIBUTION TO COMMERCIAL CATCH IN 1970
85130	PERCENT OF TOTAL FISHING DONE FROM BOAT IN 1970
85131	PERCENT OF TOTAL FISHING DONE FROM BANK IN 1970
85132	PERCENT OF TOTAL FISHING DONE WITH LURE IN 1970
85133	PERCENT OF TOTAL FISHING DONE WITH BAIT IN 1970
85134	PERCENT OF TOTAL FISHING DONE WITH A FLY IN 1970
85146	YEAR THIS FACTOR HAS A LIMITING EFFECT
85157	MAN DAYS OF WATER SKIING
85158	SEVERITY: 1=INTERFERES 2=NO INTER. 3=NO ACTIVITY
85159	MAN DAYS OF BOATING OTHER THAN ANGLING
85160	SEVERITY: 1=INTERFERES 2=NO INTER. 3=NO ACTIVITY
85161	MAN DAYS OF SWIMMING
85162	SEVERITY: 1=INTERFERES 2=NO INTER. 3=NO ACTIVITY
85163	SEVERITY: 1=INTERFERES 2=NO INTER. 3=NOT PRESENT
85165	NUMBER OF MONTHS SUSPENDED SOLIDS ARE A PROBLEM
85167	NUMBER OF MONTHS PLANKTON IS A PROBLEM
85168	1=ELIMINATE PROD 2=REDUCE 3=NO INTER. 4=NOT PRES

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
85169	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85170	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85171	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85172	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85173	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85174	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85175	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85176	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85177	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85178	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85179	YEAR THIS NUMBER OF FACILITIES PRESENT
85180	NUMBER OF BOAT RAMPS
85181	NUMBER OF MOORAGES
85182	NUMBER OF PICNIC AREAS
85183	NUMBER OF CAMP AREAS
85184	NUMBER OF RESORTS
85185	YEAR THIS ZONED AREA PRESENT
85186	ACRES SET ASIDE FOR OTHER BOATING
85187	ACRES SET ASIDE FOR WATER SKIING
85188	MILES OF SHORE LOST TO ACCESS BY HOME SITES
85189	TOTAL MILES OF SHORELINE
85193	WILL RECR BE INC BY RELEASE OF FINGERL 0=NO 1=YES
85195	CATCH AND RECREATION ESTIMATE 1=BEST 4=POOREST
85333	PRECIPITATION-SAMPLE COLLECTION TIME-CODE- NES
85538	GAMMA SCAN DATE (YR,MO,DAY)
85539	DATE OF REPORT (YR,MO,DAY)
85658	TIME NIGHT CO2 HR
85661	TIME, INTERVAL DAY CO2 HR

Appendix F

National EPA Water Quality Criteria Summary[1]

The following table presents the national water quality criteria that were used to assess water quality data on a station-by-station basis and within the entire study area. Criteria are, for the most part, maximum values (except for dissolved oxygen, pH, and as noted). Criteria exist in any of four categories: Fresh Acute, Drinking Water, Marine Acute, and Other. Acute criteria are the highest 1-hour average concentrations which should not result in unacceptable impacts to aquatic organisms in either fresh or marine waters, respectively. The Drinking Water criteria are intended for human consumption; while the Other criteria represents National Park Service or other concerns. Parameters are listed in ascending order by STORET code. It is important to note that similar parameters often have non-consecutive codes. Consequently, scanning the entire list is necessary to obtain the criteria for all parameters of a particular type (eg. lead, copper, etc.). Refer to the Parameter Period of Record Tabulation to obtain the STORET code for any parameter measured in the park.

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
	00070				50[t]	TURBIDITY, JACKSON CANDLE UNITS	JTU	Physical
	00076				50[t]	TURBIDITY, HACH TURBIDIMETER, FORMAZIN TUR. UNITS	FTU	Physical
14808798	00154		250[s]			SULFATE (AS S) WHOLE WATER	MG/L	General Inorganic
7782447	00299				4.0[u]	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	MG/L	Dissolved Oxygen
7782447	00300				4.0[u]	OXYGEN, DISSOLVED	MG/L	Dissolved Oxygen
	00400				≤6.5, ≥9.0[#]	PH	SU	Physical
	00403				≤6.5, ≥9.0[#]	PH, LAB	SU	Physical
	00406				≤6.5, ≥9.0[#]	PH, FIELD	SU	Physical

[1]Sources: (1) U.S. Environmental Protection Agency, Quality Criteria for Water 1995, Final Draft; (2) U.S. Environmental Protection Agency, 40 CFR 141 - National Primary Drinking Water Regulations, and 40 CFR 143 - National Secondary Drinking Water Regulations, July 1, 1994; and (3) Others as Noted in Footnotes.

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
471341	00409				<200[=]	ALKALINITY, TOTAL, LOW LEVEL GRAN ANALYSIS	UEQ/L	General Inorganic
17778880	00613		1			NITRITE NITROGEN, DISSOLVED AS N	MG/L	Nitrogen
17778880	00615		1			NITRITE NITROGEN, TOTAL AS N	MG/L	Nitrogen
17778880	00618		10			NITRATE NITROGEN, DISSOLVED AS N	MG/L	Nitrogen
17778880	00620		10			NITRATE NITROGEN, TOTAL AS N	MG/L	Nitrogen
17778880	00628		10			NITRITE + NITRATE, SUSPENDED AS N	MG/L	Nitrogen
17778880	00630		10			NITRITE PLUS NITRATE, TOTAL 1 DET.	MG/L	Nitrogen
17778880	00631		10			NITRITE PLUS NITRATE, DISSOLVED 1 DET.	MG/L	Nitrogen
57125	00718	22	200	1.0		CYANIDE, WEAK ACID, DISSOCIABLE, WATER, WHOLE	UG/L	General Inorganic
57125	00719	22	200	1.0		CYANIDE, FREE,IN WATER&WASTEWATERS, HBG METHOD	UG/L	General Inorganic
57125	00720	0.022	0.2	0.001		CYANIDE, TOTAL	MG/L	General Inorganic
57125	00722	0.022	0.2	0.001		CYANIDE, FREE (AMENABLE TO CHLORINATION)	MG/L	General Inorganic
57125	00723	22	200	1.0		CYANIDE, DISSOLVED STD METHOD	UG/L	General Inorganic
57125	00724	22	200	1.0		CYANIDE COMPLEXED TO A RANGE OF COMPNDS, WATER	UG/L	General Inorganic
16887006	00940	860	250[s]			CHLORIDE,TOTAL IN WATER	MG/L	General Inorganic
16887006	00941	860	250[s]			CHLORIDE, DISSOLVED IN WATER	MG/L	General Inorganic
14808798	00945		250[s]			SULFATE, TOTAL (AS SO4)	MG/L	General Inorganic
14808798	00946		250[s]			SULFATE, DISSOLVED (AS SO4)	MG/L	General Inorganic
1332214	00948		7000000			ASBESTOS, WHOLE SAMPLE	CNT/L	General Inorganic
16984488	00950		4.0			FLUORIDE, DISSOLVED AS F	MG/L	General Inorganic

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
16984488	00951		4.0			FLUORIDE, TOTAL AS F	MG/L	General Inorganic
7782414	00953		4000			FLUORINE, TOTAL	UG/L	General Inorganic
7440382	00978	360	50	69		ARSENIC, TOTAL RECOVERABLE IN WATER AS AS	UG/L	Metal
7782492	00981	20	50	300		SELENIUM,TOTAL RECOVERABLE IN WATER AS SE	UG/L	Metal
7440280	00982	1400*	2.0	2130*		THALLIUM, TOTAL RECOVERABLE IN WATER AS TL	UG/L	Metal
7782492	00990	20	50	300		SELENITE, TOTAL RECOVERABLE INORGANIC	UG/L	Metal
7440382	00991	360	50	69		ARSENIC, TOTAL RECOVERABLE TRIVALENT INORGANIC	UG/L	Metal
7440382	00995	360	50	69		ARSENIC, INORGANIC DISS	UG/L	Metal
7440382	00996	360	50	69		ARSENIC, INORGANIC SUSP	UG/L	Metal
7440382	00997	360	50	69		ARSENIC, INORGANIC TOT	UG/L	Metal
7440417	00998	130*	4.0			BERYLLIUM,TOTAL RECOVERABLE IN WATER AS BE	UG/L	Metal
7440382	01000	360	50	69		ARSENIC, DISSOLVED	UG/L	Metal
7440382	01001	360	50	69		ARSENIC, SUSPENDED	UG/L	Metal
7440382	01002	360	50	69		ARSENIC, TOTAL	UG/L	Metal
7440393	01005		2000			BARIUM, DISSOLVED	UG/L	Metal
7440393	01006		2000			BARIUM, SUSPENDED	UG/L	Metal
7440393	01007		2000			BARIUM, TOTAL	UG/L	Metal
7440393	01009		2000			BARIUM,TOTAL RECOVERABLE IN WATER AS BA	UG/L	Metal
7440417	01010	130*	4.0			BERYLLIUM, DISSOLVED	UG/L	Metal
7440417	01011	130*	4.0			BERYLLIUM, SUSPENDED	UG/L	Metal

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
7440417	01012	130*	4.0			BERYLLIUM, TOTAL	UG/L	Metal
7440439	01025	3.9+	5.0	43		CADMIUM, DISSOLVED	UG/L	Metal
7440439	01026	3.9+	5.0	43		CADMIUM, SUSPENDED	UG/L	Metal
7440439	01027	3.9+	5.0	43		CADMIUM, TOTAL	UG/L	Metal
7440473	01030		100			CHROMIUM, DISSOLVED	UG/L	Metal
7440473	01031		100			CHROMIUM, SUSPENDED	UG/L	Metal
7440473	01032	16	100	1100		CHROMIUM, HEXAVALENT	UG/L	Metal
16065831	01033	1700+	100	10300*		CHROMIUM, TRI-VAL	UG/L	Metal
7440473	01034		100			CHROMIUM, TOTAL	UG/L	Metal
7440508	01040	18+	1300a	2.9		COPPER, DISSOLVED	UG/L	Metal
7440508	01041	18+	1300a	2.9		COPPER, SUSPENDED	UG/L	Metal
7440508	01042	18+	1300a	2.9		COPPER, TOTAL	UG/L	Metal
7439921	01049	82+	15a	220		LEAD, DISSOLVED	UG/L	Metal
7439921	01050	82+	15a	220		LEAD, SUSPENDED	UG/L	Metal
7439921	01051	82+	15a	220		LEAD, TOTAL	UG/L	Metal
7440280	01057	1400*	2.0	2130*		THALLIUM, DISSOLVED	UG/L	Metal
7440280	01058	1400*	2.0	2130*		THALLIUM, SUSPENDED	UG/L	Metal
7440280	01059	1400*	2.0	2130*		THALLIUM, TOTAL	UG/L	Metal
7440020	01065	1400+	100	75		NICKEL, DISSOLVED	UG/L	Metal
7440020	01066	1400+	100	75		NICKEL, SUSPENDED	UG/L	Metal

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
7440020	01067	1400[+]	100	75		NICKEL, TOTAL	UG/L	Metal
7440020	01074	1400[+]	100	75		NICKEL, TOTAL RECOVERABLE IN WATER AS NI	UG/L	Metal
7440224	01075	4.1[+]	100[s]	0.12		SILVER, DISSOLVED	UG/L	Metal
7440224	01076	4.1[+]	100[s]	0.12		SILVER, SUSPENDED	UG/L	Metal
7440224	01077	4.1[+]	100[s]	0.12		SILVER, TOTAL	UG/L	Metal
7440224	01079	4.1[+]	100[s]	0.12		SILVER, TOTAL RECOVERABLE IN WATER AS AG	UG/L	Metal
7440508	01089	0.018[+]	1.3[a]	0.0029		COPPER AS SUSPENDED BLACK OXIDE IN WATER	MG/L	General Inorganic
7440666	01090	120[+]	5000[s]	95		ZINC, DISSOLVED	UG/L	Metal
7440666	01091	120[+]	5000[s]	95		ZINC, SUSPENDED	UG/L	Metal
7440666	01092	120[+]	5000[s]	95		ZINC, TOTAL	UG/L	Metal
7440666	01094	120[+]	5000[s]	95		ZINC, TOTAL RECOVERABLE IN WATER AS ZN	UG/L	Metal
7440360	01095	88[p]	6.0	1500[p]		ANTIMONY, DISSOLVED	UG/L	Metal
7440360	01096	88[p]	6.0	1500[p]		ANTIMONY, SUSPENDED	UG/L	Metal
7440360	01097	88[p]	6.0	1500[p]		ANTIMONY, TOTAL	UG/L	Metal
7440439	01113	3.9[+]	5.0	43		CADMIUM,TOTAL RECOVERABLE IN WATER AS CD	UG/L	Metal
7439921	01114	82[+]	15[a]	220		LEAD, TOTAL RECOVERABLE IN WATER AS PB	UG/L	Metal
7440473	01118		100			CHROMIUM TOTAL RECOVERABLE IN WATER AS CR	UG/L	Metal
7440508	01119	18[+]	1300[a]	2.9		COPPER, TOTAL RECOVERABLE IN WATER AS CU	UG/L	Metal
7440280	01124	1400[*]	2.0	2130[*]		THALLIUM, ACID SOLUBLE, WATER, WHOLE	UG/L	Metal
7440280	01128	1400[*]	2.0	2130[*]		THALLIUM, TOTAL RECOVERABLE <95%	UG/L	Metal

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
7782492	01145	20	50	300		SELENIUM, DISSOLVED	UG/L	Metal
7782492	01146	20	50	300		SELENIUM, SUSPENDED	UG/L	Metal
7782492	01147	20	50	300		SELENIUM, TOTAL	UG/L	Metal
7782492	01167	20	50	300		SELENIUM, ACID SOLUBLE, WATER, WHOLE	UG/L	Metal
18540299	01220	16	100	1100		CHROMIUM, HEXAVALENT, DISSOLVED	UG/L	Metal
7440360	01268	88[p]	6.0	1500[p]		ANTIMONY (SB), WATER, TOTAL RECOVERABLE	UG/L	Metal
57125	01291	22	200	1.0		CYANIDE, FILTERABLE, TOTAL IN WATER	UG/L	General Inorganic
7440666	01303	0.120[+]	5.0[s]	0.095		ZINC, POTENTIALLY DISSOLVED WATER	MG/L	Metal
7440224	01304	0.0041[+]	0.1[s]	0.00012		SILVER, POTENTIALLY DISSOLVED WATER	MG/L	Metal
7440508	01306	0.018[+]	1.3[a]	0.0029		COPPER, POTENTIALLY DISSOLVED WATER	MG/L	Metal
18540299	01307	0.016	0.1	1.1		CHROMIUM, HEXAVALENT, POTENTIALLY DISSOLVED	MG/L	Metal
7440382	01309	0.36	0.05	0.069		ARSENIC, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal
7440393	01311		2.0			BARIUM, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal
7440417	01312	0.13[*]	0.004			BERYLLIUM, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal
7440439	01313	0.0039[+]	0.005	0.043		CADMIUM, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal
16065831	01314	1.7[+]	0.1	10.3[*]		CHROMIUM, TRIVALENT, POTENTIALLY DISSOLVED	MG/L	Metal
7439921	01318	0.082[+]	0.015[a]	0.220		LEAD, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal
7439976	01321	0.0024	0.002	0.0021		MERCURY, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal
7440020	01322	1.4[+]	0.1	0.075		NICKEL, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal
7782492	01323	0.020	0.050	0.300		SELENIUM, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
7440280	01324	1.4*	0.002	2.13*		THALLIUM, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal
7440611	01326		0.020c			URANIUM, POTENTIALLY DISSOLVED, WATER	MG/L	Metal
7440224	01523	4.1+	100s	0.12		SILVER, IONIC	UG/L	Metal
50328	03648		0.2			BENZO (A) PYRENE, LIQUID FRACTION, ELUTRIATE	UG/L	General Organic
122349	04035		4.0			SIMAZINE, DISSOLVED, WATER, TOTAL RECOVERABLE	UG/L	Pesticide
10028178	04124		20r			TRITIUM, TOTAL, WATER	PC/ML	Radiological
10028178	07000		20000r			TRITIUM, TOTAL	PC/L	Radiological
10028178	07005		20000r			TRITIUM, DISSOLVED	PC/L	Radiological
10028178	07010		20000r			TRITIUM, SUSPENDED	PC/L	Radiological
	09501		5.0			RADIUM 226, TOTAL	PC/L	Radiological
	09503		5.0			RADIUM 226, DISSOLVED	PC/L	Radiological
	09505		5.0			RADIUM 226, SUSPENDED	PC/L	Radiological
	11500		5.0			RADIUM 226 + RADIUM 228, DISSOLVED	PC/L	Radiological
	11501		5.0			RADIUM 228, TOTAL	PC/L	Radiological
	11503		5.0			RADIUM 226 + RADIUM 228, TOTAL	PC/L	Radiological
10098972	13501		8.0r			STRONTIUM 90, TOTAL	PC/L	Radiological
10098972	13503		8.0r			STRONTIUM 90, DISSOLVED	PC/L	Radiological
10098972	13505		8.0r			STRONTIUM 90, SUSPENDED	PC/L	Radiological
7782492	22675	20	50	300		SELENIUM, DISSOLVED ORGANIC	UG/L	Metal
7782492	22676	20	50	300		SELENIUM, HEXAVALENT, DISSOLVED	UG/L	Metal

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
7782492	22677	20	50	300		SELENIUM, TETRAVALENT, DISSOLVED	UG/L	Metal
7440382	22678	360	50	69		ARSENIC, DISSOLVED ORGANIC	UG/L	Metal
7440382	22679	850*	50	2319*		ARSENIC, PENTAVALENT,DISSOLVED	UG/L	Metal
7440382	22680	360	50	69		ARSENIC, TRIVALENT, DISSOLVED	UG/L	Metal
7440611	22703		20c			URANIUM, NATURAL DISSOLVED	UG/L	Metal
7440611	22705		20c			URANIUM, NATURAL SUSPENDED	UG/L	Metal
7440611	22706		20c			URANIUM, TOTAL AS U308	UG/L	Metal
7440611	22708		0.020c			URANIUM, NATURAL, TOTAL	MG/L	Radiological
7440611	28011		20c			URANIUM, NATURAL, TOTAL	UG/L	Radiological
88857	30191		7.0			DINOSEB, WATER, WHOLE RECOVERABLE	UG/L	Pesticide
75990	30200		200			DALAPON, WATER, WHOLE RECOVERABLE	UG/L	Pesticide
106934	30203		0.05			ETHANE, 1,2-DIBROMO-, WATER, WHOLE, RECOVERABLE	UG/L	Pesticide
	31501		1.0n		1000b	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	CFU/100ML	Bacteriological
	31503		1.0n		1000b	COLIFORM, TOTAL, MEMBRANE FILTER, DELAY. M-ENDO	CFU/100ML	Bacteriological
	31504		1.0n		1000b	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED. LES-ENDO	CFU/100ML	Bacteriological
	31505		1.0n		1000b	COLIFORM, TOTAL, MPN, CONF. TEST 35C (TUBE 31506)	MPN/100ML	Bacteriological
	31506		1.0n		1000b	COLIFORM, TOTAL, MPN, CONF. TEST, TUBE CONFIG	MPN/100ML	Bacteriological
	31507		1.0n		1000b	COLIFORM, TOTAL, MPN, COMP. TEST 35C (TUBE 31508)	MPN/100ML	Bacteriological
	31508		1.0n		1000b	COLIFORM, TOTAL, MPN, COMP. TEST, TUBE CONFIG	MPN/100ML	Bacteriological
	31613				200^	FECAL COLIFORM, MEMBRANE FILTER, AGAR	CFU/100ML	Bacteriological

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
	31614				200^	FECAL COLIFORM, MPN, TUBE CONFIGURATION	MPN/100ML	Bacteriological
	31615				200^	FECAL COLIFORM, MPN, EC MED, 44.5C (TUBE 31614)	MPN/100ML	Bacteriological
	31616				200^	FECAL COLIFORM, MEMBRANE FILTER, BROTH, 44.5C	CFU/100ML	Bacteriological
	31617				200^	FECAL COLIFORM, MPN, EIJKMAN, 44.5C (TUBE 31618)	MPN/100ML	Bacteriological
	31625				200^	FECAL COLIFORM, MF, M-FC, 0.7 UM	CFU/100ML	Bacteriological
	31648				126^	E. COLI, MTEC, MF	CFU/100ML	Bacteriological
	31649				33^	ENTEROCOCCI, ME, MF	CFU/100ML	Bacteriological
67663	32003	28900*	100[t]			CARBON CHLOROFORM AND CARBON ALCOHOL EXTRS.,TOTAL	UG/L	General Organic
67663	32005	28900*	100[t]			CARBON CHLOROFORM EXTRACTABLES	UG/L	General Organic
67663	32021	28900*	100[t]			CARBON CHLOROFORM EXTRACTS, ETHER INSOLUBLES OF	UG/L	General Organic
67663	32022	28900*	100[t]			CARBON CHLOROFORM EXTRACTS, WATER SOLUBLES OF	UG/L	General Organic
75274	32101		100[t]			BROMODICHLOROMETHANE, WHOLE WATER	UG/L	General Organic
56235	32102	35200*	5.0	50000*		CARBON TETRACHLORIDE, WHOLE WATER	UG/L	General Organic
107062	32103	118000*	5.0	113000*		1,2-DICHLOROETHANE,WHOLE WATER	UG/L	General Organic
75252	32104		100[t]			BROMOFORM, WHOLE WATER	UG/L	General Organic
124481	32105		100[t]			DIBROMOCHLOROMETHANE, WHOLE WATER	UG/L	General Organic
67663	32106	28900*	100[t]			CHLOROFORM, WHOLE WATER	UG/L	General Organic
56235	32260	35.2*	0.005	50*		CARBON TETRACHLORIDE EXTRACTABLES	MG/L	General Organic
67663	32270	28.9*	0.1[t]			CHLOROFORM EXTRACTABLES TOTAL	MG/L	General Organic
108883	34010	17500*	1000	6300*		TOLUENE IN WTR SMPLE GC-MS, HEXADECONE EXTR.	UG/L	General Organic

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

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
108907	34301		100			CHLOROBENZENE, TOTAL	UG/L	General Organic
108907	34302		100			CHLOROBENZENE, DISSOLVED	UG/L	General Organic
108907	34303		100			CHLOROBENZENE, SUSPENDED	UG/L	General Organic
124481	34306		100[t]			CHLORODIBROMOMETHANE, TOTAL	UG/L	General Organic
124481	34307		100[t]			CHLORODIBROMOMETHANE, DISSOLVED	UG/L	General Organic
124481	34308		100[t]			CHLORODIBROMOMETHANE, SUSPENDED	UG/L	General Organic
67663	34316	28900[*]	100[t]			CHLOROFORM, DISSOLVED	UG/L	General Organic
67663	34317	28900[*]	100[t]			CHLOROFORM, SUSPENDED	UG/L	General Organic
57125	34325	0.022	0.2	0.001		CYANIDE, SUSPENDED	MG/L	General Inorganic
75274	34328		100[t]			DICHLOROBROMOMETHANE, DISSOLVED	UG/L	General Organic
75274	34329		100[t]			DICHLOROBROMOMETHANE, SUSPENDED	UG/L	General Organic
122667	34346	270[*]				1,2-DIPHENYLHYDRAZINE, TOTAL	UG/L	General Organic
122667	34347	270[*]				1,2-DIPHENYLHYDRAZINE, DISSOLVED	UG/L	General Organic
122667	34348	270[*]				1,2-DIPHENYLHYDRAZINE, SUSPENDED	UG/L	General Organic
33213659	34356	0.22		0.034		ENDOSULFAN, BETA, TOTAL	UG/L	Pesticide
33213659	34357	0.22		0.034		ENDOSULFAN, BETA, DISSOLVED	UG/L	Pesticide
33213659	34358	0.22		0.034		ENDOSULFAN, BETA, SUSPENDED	UG/L	Pesticide
959988	34361	0.22		0.034		ENDOSULFAN, ALPHA, TOTAL	UG/L	Pesticide
959988	34362	0.22		0.034		ENDOSULFAN, ALPHA, DISSOLVED	UG/L	Pesticide
959988	34363	0.22		0.034		ENDOSULFAN, ALPHA, SUSPENDED	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
100414	34371	32000*	700	430*		ETHYLBENZENE, TOTAL	UG/L	General Organic
100414	34372	32000*	700	430*		ETHYLBENZENE, DISSOLVED	UG/L	General Organic
100414	34373	32000*	700	430*		ETHYLBENZENE, SUSPENDED	UG/L	General Organic
206440	34376	3980*		40*		FLUORANTHENE, TOTAL	UG/L	General Organic
206440	34377	3980*		40*		FLUORANTHENE, DISSOLVED	UG/L	General Organic
206440	34378	3980*		40*		FLUORANTHENE, SUSPENDED	UG/L	General Organic
77474	34386	7.0*	50	7.0*		HEXACHLOROCYCLOPENTADIENE, TOTAL	UG/L	General Organic
77474	34387	7.0*	50	7.0*		HEXACHLOROCYCLOPENTADIENE, DISSOLVED	UG/L	General Organic
77474	34388	7.0*	50	7.0*		HEXACHLOROCYCLOPENTADIENE, SUSPENDED	UG/L	General Organic
87683	34391	90*		32*		HEXACHLOROBUTADIENE, TOTAL	UG/L	General Organic
87683	34392	90*		32*		HEXACHLOROBUTADIENE, DISSOLVED	UG/L	General Organic
87683	34393	90*		32*		HEXACHLOROBUTADIENE, SUSPENDED	UG/L	General Organic
67721	34396	980*		940*		HEXACHLOROETHANE, TOTAL	UG/L	General Organic
67721	34397	980*		940*		HEXACHLOROETHANE, DISSOLVED	UG/L	General Organic
67721	34398	980*		940*		HEXACHLOROETHANE, SUSPENDED	UG/L	General Organic
118741	34401	6.0[p]	1.0			HEXACHLOROBENZENE, DISSOLVED	UG/L	General Organic
118741	34402	6.0[p]	1.0			HEXACHLOROBENZENE, SUSPENDED	UG/L	General Organic
193395	34403		0.40[c]			INDENO (1,2,3-CD) PYRENE, TOTAL	UG/L	General Organic
193395	34404		0.40[c]			INDENO (1,2,3-CD) PYRENE, DISSOLVED	UG/L	General Organic
193395	34405		0.40[c]			INDENO (1,2,3-CD) PYRENE, SUSPENDED	UG/L	General Organic

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
78591	34408	117000*		12900*		ISOPHORONE, TOTAL	UG/L	Pesticide
78591	34409	117000*		12900*		ISOPHORONE, DISSOLVED	UG/L	Pesticide
78591	34410	117000*		12900*		ISOPHORONE, SUSPENDED	UG/L	Pesticide
75092	34423		5.0			METHYLENE CHLORIDE, TOTAL	UG/L	General Organic
75092	34424		5.0			METHYLENE CHLORIDE, DISSOLVED	UG/L	General Organic
75092	34425		5.0			METHYLENE CHLORIDE, SUSPENDED	UG/L	General Organic
91203	34443	2300*		2350*		NAPHTHALENE, DISSOLVED	UG/L	General Organic
91203	34444	2300*		2350*		NAPHTHALENE, SUSPENDED	UG/L	General Organic
98953	34447	27000*		6680*		NITROBENZENE, TOTAL	UG/L	General Organic
98953	34448	27000*		6680*		NITROBENZENE, DISSOLVED	UG/L	General Organic
98953	34449	27000*		6680*		NITROBENZENE, SUSPENDED	UG/L	General Organic
59507	34452	30*				PARACHLOROMETA CRESOL, TOTAL	UG/L	General Organic
59507	34453	30*				PARACHLOROMETA CRESOL, DISSOLVED	UG/L	General Organic
59507	34454	30*				PARACHLOROMETA CRESOL, SUSPENDED	UG/L	General Organic
87865	34459	20***	1.0	13		PCP (PENTACHLOROPHENOL), DISSOLVED	UG/L	Pesticide
87865	34460	20***	1.0	13		PCP (PENTACHLOROPHENOL), SUSPENDED	UG/L	Pesticide
85018	34461	30p		7.7p		PHENANTHRENE, TOTAL	UG/L	General Organic
85018	34462	30p		7.7p		PHENANTHRENE, DISSOLVED	UG/L	General Organic
85018	34463	30p		7.7p		PHENANTHRENE, SUSPENDED	UG/L	General Organic
108952	34466	10200*		5800*		PHENOL, DISSOLVED	UG/L	General Organic

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
108952	34467	10200*		5800*		PHENOL, SUSPENDED	UG/L	General Organic
127184	34475	5280*	5.0	10200*		TETRACHLOROETHYLENE, TOTAL	UG/L	General Organic
127184	34476	5280*	5.0	10200*		TETRACHLOROETHYLENE, DISSOLVED	UG/L	General Organic
127184	34477	5280*	5.0	10200*		TETRACHLOROETHYLENE, SUSPENDED	UG/L	General Organic
108883	34481	17500*	1000	6300*		TOLUENE, DISSOLVED	UG/L	General Organic
108883	34482	17500*	1000	6300*		TOLUENE, SUSPENDED	UG/L	General Organic
79016	34485	45000*	5.0	2000*		TRICHLOROETHYLENE, DISSOLVED	UG/L	General Organic
79016	34486	45000*	5.0	2000*		TRICHLOROETHYLENE, SUSPENDED	UG/L	General Organic
75014	34493		2.0			VINYL CHLORIDE, DISSOLVED	UG/L	General Organic
75014	34494		2.0			VINYL CHLORIDE, SUSPENDED	UG/L	General Organic
75354	34501		7.0			1,1-DICHLOROETHYLENE, TOTAL	UG/L	General Organic
75354	34502		7.0			1,1-DICHLOROETHYLENE, DISSOLVED	UG/L	General Organic
75354	34503		7.0			1,1-DICHLOROETHYLENE, SUSPENDED	UG/L	General Organic
71556	34506		200	31200*		1,1,1-TRICHLOROETHANE, TOTAL	UG/L	General Organic
71556	34507		200	31200*		1,1,1-TRICHLOROETHANE, DISSOLVED	UG/L	General Organic
71556	34508		200	31200*		1,1,1-TRICHLOROETHANE, SUSPENDED	UG/L	General Organic
79005	34511		5.0			1,1,2-TRICHLOROETHANE, TOTAL	UG/L	General Organic
79005	34512		5.0			1,1,2-TRICHLOROETHANE, DISSOLVED	UG/L	General Organic
79005	34513		5.0			1,1,2-TRICHLOROETHANE, SUSPENDED	UG/L	General Organic
79345	34516			9020*		1,1,2,2-TETRACHLOROETHANE, TOTAL	UG/L	General Organic

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
79345	34517			9020*		1,1,2,2-TETRACHLOROETHANE, DISSOLVED	UG/L	General Organic
79345	34518			9020*		1,1,2,2-TETRACHLOROETHANE, SUSPENDED	UG/L	General Organic
107062	34531	118000*	5.0	113000*		1,2-DICHLOROETHANE, TOTAL	UG/L	General Organic
107062	34532	118000*	5.0	113000*		1,2-DICHLOROETHANE, DISSOLVED	UG/L	General Organic
107062	34533	118000*	5.0	113000*		1,2-DICHLOROETHANE, SUSPENDED	UG/L	General Organic
95501	34536		600			1,2-DICHLOROBENZENE, TOTAL	UG/L	General Organic
95501	34537		600			1,2-DICHLOROBENZENE, DISSOLVED	UG/L	General Organic
95501	34538		600			1,2-DICHLOROBENZENE, SUSPENDED	UG/L	General Organic
78875	34541		5.0			1,2-DICHLOROPROPANE, TOTAL	UG/L	General Organic
78875	34542		5.0			1,2-DICHLOROPROPANE, DISSOLVED	UG/L	General Organic
78875	34543		5.0			1,2-DICHLOROPROPANE, SUSPENDED	UG/L	General Organic
156605	34546		100			TRANS-1,2-DICHLOROETHENE, TOTAL, IN WATER	UG/L	General Organic
156605	34547		100			TRANS-1,2-DICHLOROETHENE, DISSOLVED	UG/L	General Organic
156605	34548		100			TRANS-1,2-DICHLOROETHENE, SUSPENDED	UG/L	General Organic
120821	34551		70			1,2,4-TRICHLOROBENZENE, TOTAL	UG/L	General Organic
120821	34552		70			1,2,4-TRICHLOROBENZENE, DISSOLVED	UG/L	General Organic
120821	34553		70			1,2,4-TRICHLOROBENZENE, SUSPENDED	UG/L	General Organic
541731	34566		600			1,3-DICHLOROBENZENE, TOTAL	UG/L	General Organic
541731	34567		600			1,3-DICHLOROBENZENE, DISSOLVED	UG/L	General Organic
541731	34568		600			1,3-DICHLOROBENZENE, SUSPENDED	UG/L	General Organic

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
106467	34571		75			1,4-DICHLOROBENZENE, TOTAL	UG/L	General Organic
106467	34572		75			1,4-DICHLOROBENZENE, DISSOLVED	UG/L	General Organic
106467	34573		75			1,4-DICHLOROBENZENE, SUSPENDED	UG/L	General Organic
95578	34586	4380*				2-CHLOROPHENOL, TOTAL	UG/L	General Organic
95578	34587	4380*				2-CHLOROPHENOL, DISSOLVED	UG/L	General Organic
95578	34588	4380*				2-CHLOROPHENOL, SUSPENDED	UG/L	General Organic
120832	34601	2020*				2,4-DICHLOROPHENOL, TOTAL	UG/L	General Organic
120832	34602	2020*				2,4-DICHLOROPHENOL, DISSOLVED	UG/L	General Organic
120832	34603	2020*				2,4-DICHLOROPHENOL, SUSPENDED	UG/L	General Organic
105679	34606	2120*				2,4-DIMETHYLPHENOL, TOTAL	UG/L	General Organic
105679	34607	2120*				2,4-DIMETHYLPHENOL, DISSOLVED	UG/L	General Organic
105679	34608	2120*				2,4-DIMETHYLPHENOL, SUSPENDED	UG/L	General Organic
121142	34611	330*		590*		2,4-DINITROTOLUENE, TOTAL	UG/L	General Organic
121142	34612	330*		590*		2,4-DINITROTOLUENE, DISSOLVED	UG/L	General Organic
121142	34613	330*		590*		2,4-DINITROTOLUENE, SUSPENDED	UG/L	General Organic
72548	34651	0.6*		3.6*		P,P'-DDD, DISSOLVED	UG/L	Pesticide
72548	34652	0.6*		3.6*		P,P'-DDD, SUSPENDED	UG/L	Pesticide
72559	34653	1050*		14*		P,P'-DDE, DISSOLVED	UG/L	Pesticide
72559	34654	1050*		14*		P,P'-DDE, SUSPENDED	UG/L	Pesticide
50293	34655	1.1		0.13		P,P'-DDT, DISSOLVED	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
50293	34656	1.1		0.13		P,P'-DDT, SUSPENDED	UG/L	Pesticide
1746016	34675	0.01*	0.00003			2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN(TCDD), TOT	UG/L	General Organic
1746016	34676	0.01*	0.00003			2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN(TCDD), DISS	UG/L	General Organic
1746016	34677	0.01*	0.00003			2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN(TCDD), SUSP	UG/L	General Organic
108952	34694	10200*		5800*		PHENOL (C6H5OH) - SINGLE COMPOUND, TOTAL	UG/L	General Organic
91203	34696	2300*		2350*		NAPHTHALENE, TOTAL	UG/L	General Organic
75990	38432		200			DALAPON, WATER, TOTAL	UG/L	Pesticide
75990	38433		200			DALAPON, WATER, DISSOLVED	UG/L	Pesticide
75990	38434		200			DALAPON, WATER, SUSPENDED	UG/L	Pesticide
96128	38437		0.2			DIBROMOCHLOROPROPANE, WATER, TOTAL	UG/L	Pesticide
96128	38438		0.2			DIBROMOCHLOROPROPANE, WATER, DISSOLVED	UG/L	Pesticide
96128	38439		0.2			DIBROMOCHLOROPROPANE WATER, SUSPENDED	UG/L	Pesticide
96128	38760		0.2			DBCP, WATER, TOTAL	UG/L	Pesticide
96128	38761		0.2			DBCP, WATER, DISSOLVED	UG/L	Pesticide
96128	38762		0.2			DBCP, WATER, SUSPENDED	UG/L	Pesticide
88857	38779		7.0			DINOSEB, DISSOLVED	UG/L	Pesticide
88857	38780		7.0			DINOSEB, SUSPENDED	UG/L	Pesticide
23135220	38865		200			OXAMYL, TOTAL	UG/L	Pesticide
23135220	38866		200			OXAMYL, DISSOLVED	UG/L	Pesticide
23135220	38867		200			OXAMYL, SUSPENDED	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
145733	38926		100			ENDOTHALL, WHOLE WATER SAMPLE	UG/L	Pesticide
2921882	38932	0.083		0.011		CHLORPYRIFOS, TOTAL RECOVERABLE	UG/L	Pesticide
2921882	38933	0.083		0.011		CHLORPYRIFOS, DISSOLVED	UG/L	Pesticide
2163806	38935		50			MONOSODIUM METHANEARSONATE (MSMA)	UG/L	Pesticide
2921882	39012	0.083		0.011		DURSBAN, FLAME PHOTOMETRIC, WATER SAMPLE	UG/L	Pesticide
56382	39015	0.065				ETHYLPARATHION, FLAME IONIFATION, WATER SAMPLE	UG/L	Pesticide
122349	39025		4.0			SIMAZINE, COULSON CONDUCTIVITY WATER SAMPLE	UG/L	Pesticide
87865	39032	20***	1.0	13		PCP (PENTACHLOROPHENOL) WHOLE WATER SAMPLE	UG/L	Pesticide
1912249	39033		3.0			ATRAZINE IN WHOLE WATER SAMPLE	UG/L	Pesticide
118741	39039	6.0[p]	1.0			HEXACHLOROBENZENE WATER SAMPLE, ELECTRON CPT	UG/L	Pesticide
93721	39045		50			2,4,5-TP INCLUDES ACIDS & SALTS WATER SAMPLE	UG/L	Pesticide
116063	39053		3.0			ALDICARB IN WHOLE WATER	UG/L	Pesticide
122349	39055		4.0			SIMAZINE IN WHOLE WATER	UG/L	Pesticide
117817	39100	2000*	6.0			BIS(2-ETHYLHEXYL) PHTHALATE, WHOLE WATER	UG/L	General Organic
117817	39103	2000*	6.0			BIS(2-ETHYLHEXYL) PHTHALATE, DISSOLVED	UG/L	General Organic
117817	39104	2000*	6.0			BIS(2-ETHYLHEXYL) PHTHALATE, SUSPENDED	UG/L	General Organic
	39117	0.94*		2.994*		PHTHLATE ESTERS IN WATER	MG/L	General Organic
75014	39175		2.0			VINYL CHLORIDE-WHOLE WATER SAMPLE	UG/L	General Organic
79016	39180	45000*	5.0	2000*		TRICHLOROETHYLENE-WHOLE WATER SAMPLE	UG/L	General Organic
50293	39300	1.1		0.13		P,P' DDT IN WHOLE WATER SAMPLE	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
72548	39310	0.6*		3.6*		P,P' DDD IN WHOLE WATER SAMPLE	UG/L	Pesticide
72559	39320	1050*		14*		P,P' DDE IN WHOLE WATER SAMPLE	UG/L	Pesticide
309002	39330	3.0		1.3		ALDRIN IN WHOLE WATER SAMPLE	UG/L	Pesticide
309002	39331	3.0		1.3		ALDRIN IN FILT. FRAC. OF WAT. SAMP.	UG/L	Pesticide
309002	39332	3.0		1.3		ALDRIN IN SUSP. FRAC. OF WAT. SAMP.	UG/L	Pesticide
58899	39340	2.0	0.2	0.16		GAMMA-BHC(LINDANE), WHOLE WATER	UG/L	Pesticide
58899	39341	2.0	0.2	0.16		GAMMA-BHC(LINDANE), DISSOLVED	UG/L	Pesticide
58899	39342	2.0	0.2	0.16		GAMMA-BHC(LINDANE), SUSPENDED	UG/L	Pesticide
57749	39350	2.4	2.0	0.09		CHLORDANE(TECH MIX & METABS), WHOLE WATER	UG/L	Pesticide
57749	39352	2.4	2.0	0.09		CHLORDANE(TECH MIX & METABS), DISSOLVED	UG/L	Pesticide
57749	39353	2.4	2.0	0.09		CHLORDANE(TECH MIX & METABS), SUSPENDED	UG/L	Pesticide
72548	39360	0.6*		3.6*		DDD IN WHOLE WATER SAMPLE	UG/L	Pesticide
72548	39361	0.6*		3.6*		DDD IN FILT. FRAC. OF WATER SMAPLE	UG/L	Pesticide
72548	39362	0.6*		3.6*		DDD IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
72559	39365	1050*		14*		DDE IN WHOLE WATER SAMPLE	UG/L	Pesticide
72559	39366	1050*		14*		DDE IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
72559	39367	1050*		14*		DDE IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
50293	39370	1.1		0.13		DDT IN WHOLE WATER SAMPLE	UG/L	Pesticide
50293	39371	1.1		0.13		DDT IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
50293	39372	1.1		0.13		DDT IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
60571	39380	2.5		0.71		DIELDRIN IN WHOLE WATER SAMPLE	UG/L	Pesticide
60571	39381	2.5		0.71		DIELDRIN IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
60571	39382	2.5		0.71		DIELDRIN IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
115297	39388	0.22		0.034		ENDOSULFAN IN WHOLE WATER SAMPLE	UG/L	Pesticide
72208	39390	0.18	2.0	0.037		ENDRIN IN WHOLE WATER SAMPLE	UG/L	Pesticide
72208	39391	0.18	2.0	0.037		ENDRIN IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
72208	39392	0.18	2.0	0.037		ENDRIN IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
8001352	39400	0.73	3.0	0.21		TOXAPHENE IN WHOLE WATER SAMPLE	UG/L	Pesticide
8001352	39401	0.73	3.0	0.21		TOXAPHENE IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
8001352	39402	0.73	3.0	0.21		TOXAPHENE IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
76448	39410	0.52	0.4	0.053		HEPTACHLOR IN WHOLE WATER SAMPLE	UG/L	Pesticide
76448	39411	0.52	0.4	0.053		HEPTACHLOR IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
76448	39412	0.52	0.4	0.053		HEPTACHLOR IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
1024573	39420	0.52	0.2	0.053		HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE	UG/L	Pesticide
1024573	39421	0.52	0.2	0.053		HEPTACHLOR EPOXIDE IN FILT. FRAC. WATER SAMPLE	UG/L	Pesticide
1024573	39422	0.52	0.2	0.053		HEPTACHLOR EPOXIDE IN SUSP. FRAC. WATER SAMPLE	UG/L	Pesticide
72435	39478		40			METHOXYCHLOR IN WHOLE WATER DISSOLVED	UG/L	Pesticide
72435	39479		40			METHOXYCHLOR IN WHOLE WATER SUSPENDED	UG/L	Pesticide
72435	39480		40			METHOXYCHLOR IN WHOLE WATER SAMPLE	UG/L	Pesticide
56382	39540	0.065				PARATHION IN WHOLE WATER SAMPLE	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
56382	39542	0.065				PARATHION IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
56382	39543	0.065				PARATHION IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
1912249	39630		3.0			ATRAZINE(AATREX) IN WHOLE WATER SAMPLE	UG/L	Pesticide
1912249	39632		3.0			ATRAZINE DISSOLVED IN WATER	PPB	Pesticide
118741	39700	6.0[p]	1.0			HEXACHLOROBENZENE IN WHOLE WATER SAMPLE	UG/L	General Organic
87683	39702	90[*]		32[*]		HEXACHLOROBUTADIENE IN WHOLE WATER SAMPLE	UG/L	General Organic
1918021	39720		500			PICLORAM IN WHOLE WATER SAMPLE	UG/L	Pesticide
94757	39730		70			2,4-D IN WHOLE WATER SAMPLE	UG/L	Pesticide
94757	39732		70			2,4-D IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
94757	39733		70			2,4-D IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
93721	39760		50			SILVEX IN WHOLE WATER SAMPLE	UG/L	Pesticide
93721	39762		50			SILVEX IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
93721	39763		50			SILVEX IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
58899	39782	2.0	0.2	0.16		LINDANE IN WHOLE WATER SAMPLE	UG/L	Pesticide
1071836	39941		700			ROUNDUP IN WHOLE WATER SAMPLE (GLYPHOSATE)	UG/L	Pesticide
7782505	45650	0.019		0.013		CHLORINE, IN ORGANIC COMPOUNDS, WATER, WHOLE	MG/L	General Inorganic
56382	46315	0.065				ETHYL PARATHION IN WHOLE WATER SAMPLE	UG/L	Pesticide
58899	46322	2.0	0.2	0.16		LINDANE PLUS ISOMERS IN WHOLE WATER SAMPLE	UG/L	Pesticide
76448	46326	0.52	0.4	0.053		HEPTACHLOR AND METABOLITES IN WHOLE H2O SAMPLE	UG/L	Pesticide
15972608	46342		2.0			ALACHLOR (LASSO), WATER, DISSOLVED	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
7782505	46472	0.019		0.013		CHLORINE, TOTAL RESIDUAL, AVERAGE VALUE, WATER	MG/L	General Inorganic
7782505	46473	0.019		0.013		CHLORINE, FREE AVAILABLE, AVERAGE VALUE, WATER	MG/L	General Inorganic
57125	46479	22	200	1.0		CYANIDE, DISSOLVED, WATER	UG/L	General Inorganic
7440382	46551	360	50	69		ARSENIC, FIELD ACIDIFIED W/HNO3, LAB FILTERED	UG/L	Metal
7440393	46558		2000			BARIUM, FIELD ACIDIFIED W/HNO3-LAB FILT	UG/L	Metal
7440439	46559	3.9[+]	5.0	43		CADMIUM,FIELD ACIDIFIED-HNO3-LAB FILTER	UG/L	Metal
7440473	46560		100			CHROMIUM, FIELD ACIDIFIED-HNO3-LAB FILT.	UG/L	Metal
7440508	46562	18[+]	1300[a]	2.9		COPPER, FIELD ACIDIFIED-HNO3- LAB FILTER.	UG/L	Metal
7439921	46564	82[+]	15[a]	220		LEAD, FIELD ACIDIFIED-HNO3-LAB FILTERED	UG/L	Metal
7440224	46566	4.1[+]	100[s]	0.12		SILVER, FIELD ACIDIFIED-HNO3-LAB FILTER.	UG/L	Metal
7440666	46567	120[+]	5000[s]	95		ZINC, EXTRACTABLE, FIELD ACID W/HNO3,LAB FILTR	UG/L	Metal
56382	49011	0.065				UNKNOWNS AS PARATHION IN WHOLE WATER SAMPLE	UG/L	Pesticide
7782505	50058	0.019		0.013		CHLORINE DOSE	MG/L	General Inorganic
7782505	50060	0.019		0.013		CHLORINE, TOTAL RESIDUAL	MG/L	General Inorganic
7782505	50064	0.019		0.013		CHLORINE, FREE AVAILABLE	MG/L	General Inorganic
7782505	50066	0.019		0.013		CHLORINE, COMBINED AVAILABLE	MG/L	General Inorganic
7782505	50074	0.019		0.013		CHLORITE, WHOLE WATER	MG/L	General Inorganic
16887006	70352	860	250[s]			CHLORIDE, ORGANIC	MG/L	General Organic
14797558	71850		44			NITRATE NITROGEN, TOTAL (AS NO3)	MG/L	Nitrogen
14797558	71851		44			NITRATE NITROGEN, DISSOLVED (AS NO3)	MG/L	Nitrogen

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
14797650	71855		3.3			NITRITE NITROGEN, TOTAL (AS NO2)	MG/L	Nitrogen
14797650	71856		3.3			NITRITE NITROGEN, DISSOLVED (AS NO2)	MG/L	Nitrogen
7439976	71890	2.4	2.0	2.1		MERCURY, DISSOLVED	UG/L	Metal
7439976	71895	2.4	2.0	2.1		MERCURY, SUSPENDED	UG/L	Metal
7439976	71900	2.4	2.0	2.1		MERCURY, TOTAL	UG/L	Metal
7439976	71901	2.4	2.0	2.1		MERCURY,TOTAL RECOVERABLE IN WATER AS HG	UG/L	Metal
7440439	71946	3.9[+]	5.0	43		CADMIUM, EXTRACTABLE	UG/L	Metal
7440473	71947		100			CHROMIUM, EXTRACTABLE	UG/L	Metal
7439921	71949	82[+]	15[a]	220		LEAD, EXTRACTABLE	UG/L	Metal
7440666	71950	120[+]	5000[s]	95		ZINC, EXTRACTABLE	UG/L	Metal
7440508	71951	18[+]	1300[a]	2.9		COPPER, EXTRACTABLE	UG/L	Metal
1336363	76011	2000	500	10000		PCBS, SUSPENDED, WATER	NG/L	General Organic
1336363	76012	2000	500	10000		PCBS, TOTAL RECOVERABLE, WATER	NG/L	General Organic
156592	77093		70			CIS-1,2-DICHLOROETHYLENE, WHOLE WATER	UG/L	General Organic
100425	77128		100			STYRENE, WHOLE WATER	UG/L	General Organic
106489	77296			29700[*]		P-CHLOROPHENOL, WHOLE WATER	UG/L	General Organic
106934	77651		0.05			1,2-DIBROMOETHANE, WHOLE WATER	UG/L	General Organic
95954	77687	100[p]		240[p]		2,4,5-TRICHLOROPHENOL, WHOLE WATER	UG/L	General Organic
935955	77769			440[*]		2,3,5,6-TETRACHLOROPHENOL, WHOLE WATER	UG/L	General Organic
103231	77903		400			BIS (2-ETHYLHEXYL) ADIPATE, WHOLE WATER	UG/L	General Organic

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
18540299	78247	16	100	1100		CHROMIUM, HEXAVALENT, TOTAL RECOVERABLE	UG/L	Metal
57125	78248	22	200	1.0		CYANIDE, TOTAL RECOVERABLE, WATER, WHOLE	UG/L	Metal
	78456	11*		12*		HALOMETHANES, SUMMATION, WHOLE WATER	MG/L	General Organic
14808798	78462		250s			SULFATE, WATER, DISSOLVED AS S	MG/L	Metal
85007	78885		20			DIQUAT DIBROMIDE (REGLONE) WHOLE WATER SAMPLE	UG/L	Pesticide
7440611	80020		20c			URANIUM, DISS. BY EXTRACTION FLUOROMETRIC	UG/L	Radiological
16065831	80357	1700	100	10300*		CHROMIUM, TRIVALENT, DISSOLVED	UG/L	Metal
57125	81208	0.022	0.2	0.001		CYANIDE,FREE (NOT AMENABLE TO CHLORINATION)	MG/L	General Inorganic
608731	81283	100*		0.34*		BENZENEHEXACHLORIDE, WHOLE WATER	UG/L	Pesticide
88857	81287		7.0			DNBP(C10H12N2O5), WHOLE WATER SAMPLE	UG/L	Pesticide
26638197	81327	23000*	5.0	10300*		DICHLOROPROPANE, WHOLE WATER SAMPLE	UG/L	General Organic
25321226	81333	1120*		1970*		DICHLOROBENZENE ISOMER, WHOLE WATER SAMPLE	UG/L	General Organic
2921882	81403	0.083		0.011		DURSBAN (CHLOROPYRIFOS) WHOLE WATER SAMPLE	UG/L	Pesticide
1563662	81405		40			CARBOFURAN (EURADAN) WHOLE WATER SAMPLE	UG/L	Pesticide
76017	81501	7240*		390*		PENTACHLOROETHANE, WHOLE WATER SAMPLE	UG/L	General Organic
25321226	81524	1120*		1970*		DICHLOROBENZENE, WHOLE WATER SAMPLE	UG/L	General Organic
25322207	81549	9320*				TETRACHLOROETHANE, WHOLE WATER SAMPLE	UG/L	General Organic
26638197	81703	23*	0.005*	10.3*		DICHLOROPROPANE, WHOLE WATER SAMPLE	MG/L	General Organic
7440508	81750	18+	1300a	2.9		COPPER, INTERSTITIAL WATERFROM SEDIMENTS	UG/L	Metal
7440020	81752	1400+	100	75		NICKEL, INTERSTITIAL WATER FROM SEDIMENTS	UG/L	Metal

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
7440666	81754	120[+]	5000[s]	95		ZINC, INTERSTITIAL WATER FROM SEDIMENTS	UG/L	Metal
25323891	81853	18000[*]				TRICHLOROETHANE, WHOLE WATER SAMPLE	UG/L	General Organic
7439976	81931	2.4	2.0	2.1		MERCURY (HG) SUSPENDED FRACTION OF WATER	UG/G	Metal
7440666	81933	120[+]	5000[s]	95		ZINC (ZN) SUSPENDED FRACTION OF WATER	UG/G	Metal
7439921	81936	82[+]	15[a]	220		LEAD (PB) DISSOLVED CATIONIC SPECIES	UG/L	Metal
7440439	81937	3.9[+]	5.0	43		CADMIUM (CD) DISSOLVED CATIONIC SPECIES	UG/L	Metal
7440473	81938		100			CHROMIUM (CR) DISSOLVED CATIONIC SPECIES	UG/L	Metal
7440508	81939	18[+]	1300[a]	2.9		COPPER (CU) DISSOLVED CATIONIC SPECIES	UG/L	Metal
7440666	81940	120[+]	5000[s]	95		ZINC (ZN) DISSOLVED CATIONIC SPECIES	UG/L	Metal
7440473	81941		100			CHROMIUM (CR) DISSOLVED ANIONIC SPECIES	UG/L	Metal
7440508	81942	18[+]	1300[a]	2.9		COPPER (CU) DISSOLVED ANIONIC SPECIES	UG/L	Metal
7440666	81943	120[+]	5000[s]	95		ZINC (ZN) DISSOLVED ANIONIC SPECIES	UG/L	Metal
	82078				50[l]	TURBIDITY, FIELD	NTU	Physical
	82079				50[l]	TURBIDITY, LAB	NTU	Physical
88857	82226		7.0			2 SECONDARY BUTYL 4,6-DINITROPHENOL	UG/L	Pesticide
16887006	82295	860000	250000[s]			CHLORIDE DISSOLVED AS CL IN WATER	UG/L	General Inorganic
72435	82350		40			METHOXYCHLOR, DISSOLVED IN WATER	UG/L	Pesticide
72435	82351		40			METHOXYCHLOR, SUSPENDED IN WATER	UG/L	Pesticide
115297	82354	0.22		0.034		ENDOSULFAN, DISSOLVED IN WATER	UG/L	Pesticide
115297	82355	0.22		0.034		ENDOSULFAN, SUSPENDED IN WATER	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
57125	82573	0.022	0.2	0.001		CYANIDE/CHLORINATION IN WATER	MG/L	General Inorganic
1646873	82586		4.0			ALDICARB SULFOXIDE, WATER, TOTAL RECOVERABLE	UG/L	General Organic
1646884	82587		2.0			ALDICARB SULFONE, WHOLE WATER, TOTAL RECOVERABLE	UG/L	General Organic
23135220	82613		200			OXAMYL, WHOLE WATER, TOTAL RECOVERABLE	UG/L	Pesticide
1563662	82615		40			CARBOFURAN, WHOLE WATER, TOTAL RECOVERABLE	UG/L	Pesticide
116063	82619		3.0			ALDICARB, WHOLE WATER, TOTAL RECOVERABLE	UG/L	Pesticide
33213659	82624	0.22		0.034		ENDOSULFAN, BETA, WH WATER, TOTAL RECOVERABLE	UG/L	Pesticide
96128	82625		0.2			DIBROMOCHLOROPROPANE, WATER, TOTAL RECOVERABLE	UG/L	Pesticide

Footnote Key:

[*]Insufficient Data to Develop Criteria. Value Presented is the L.O.E.L. - Lowest Observed Effect Level.

[+]Hardness Dependent Criteria (100 mg/L $CaCO_3$ Used).

[***]pH Dependent Criteria (7.8 pH Used).

[=]Rule of thumb criterion used by the NPS Air Quality Division for determining sensitivity to acid deposition.

[^]Freshwater bathing criterion, EPA geometric mean based on at least 5 samples equally spaced over a 30-day period; Enterococci marine water bathing criterion 35 CFU/100 ml.

[#]EPA freshwater aquatic life chronic criterion; marine criterion is ≤6.5, ≥8.5.

[!]Arizona state standard.

[a]EPA action level, 40 CFR 141.80.

[b]California and Florida state bathing water standards.

[c]A Compilation of Water Quality Goals, California Regional Water Quality Control Board Central Valley Region, Sacramento, California, September, 1991.

[n]Total coliform drinking water maximum contaminant level (1 cfu/100ml or 1 mpn/100ml) was not used in water quality criteria comparisons.

[p]Proposed Criterion.

[r]Average annual concentration assumed to produce a total body or organ dose of 4 mrem/year, 40 CFR 141.16.

[s]EPA National Secondary Drinking Water Regulation, 40 CFR 143.

[t]The maximum contaminant level for the sum of the concentrations of trihalomethanes is 100 µg/L, 40 CFR 141.12.

[u]Coldwater criterion one day minimum; warmwater criterion seven day mean minimum.

Appendix G

Inventory Data Evaluation and Analysis (IDEA)
Servicewide Inventory and Monitoring Program "Level I"
Parameter Groups

The following table provides the Servicewide Inventory and Monitoring Program's "Level I" water quality inventory parameter groups (National Park Service 1993). In order to determine the presence and/or absence of data for each of these parameter groups in the park, the parameter groups had to be defined by STORET parameter codes. This table provides the STORET codes and parameter descriptions for each parameter comprising one of the Servicewide Inventory and Monitoring Program's "Level I" water quality parameter groups. Additional parameters could have been incorporated into each group, but an effort was made to represent each group with the parameters deemed to most likely occur in STORET and parks. The Toxic Elements Parameter Group was defined as the EPA's Clean Water Act Section 304(a) Priority Toxic Pollutants (40 CFR 131.36). Parameters are listed in ascending order of STORET code within each parameter group. It is important to note that similar parameters often have non-consecutive codes. Consequently, scanning the entire list is necessary to find all the parameters of a particular type (eg. lead, copper, etc.). Refer to the Parameter Period of Record Tabulation to obtain the STORET code for any parameter measured in the park.

STORET Code	Water Temperature Parameter Group	C.A.S. Number
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	-
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	-
STORET Code	**Flow Parameter Group[1]**	**C.A.S. Number**
00056	FLOW RATE, GALLONS/DAY	-
00058	FLOW RATE, GALLONS/MIN.	-
00059	FLOW RATE, INSTANTANEOUS, GALLONS/MINUTE	-
00060	FLOW, STREAM, MEAN DAILY CFS	-
00061	FLOW, STREAM, INSTANTANEOUS CFS	-
00065	STAGE, STREAM (FEET)	-
00067	TIDE STAGE CODE	-
00072	STAGE, STREAM (METERS)	-

[1]Tide stage is included in the Flow Parameter Group for coastal parks.

STORET Code	Clarity/Turbidity Parameter Group	C.A.S. Number
00070	TURBIDITY, (JACKSON CANDLE UNITS)	-
00075	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	-
00076	TURBIDITY, HACH TURBIDIMETER (FORMAZIN TURB UNIT)	-
00077	TRANSPARENCY, SECCHI DISC (INCHES)	-
00078	TRANSPARENCY, SECCHI DISC (METERS)	-
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	-
82078	TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS NTU	-
82079	TURBIDITY, LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	-
STORET Code	**Conductivity Parameter Group**	**C.A.S. Number**
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	-
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	-
00096	SALINITY AT 25 DEGREES C (MG/ML)	-
00480	SALINITY - PARTS PER THOUSAND	-
STORET Code	**Dissolved Oxygen Parameter Group**	**C.A.S. Number**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE (MG/L)	7782447
00300	OXYGEN, DISSOLVED (MG/L)	7782447
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION	7782447
00389	OXYGEN, DISSOLVED, LAB ANAL. BY PROBE OF FIELD SAMPLE (MG/L)	7782447
STORET Code	**pH Parameter Group**	**C.A.S. Number**
00400	PH (STANDARD UNITS)	-
00403	PH, LAB (STANDARD UNITS)	-
00406	PH, FIELD (STANDARD UNITS)	-

STORET Code	Alkalinity Parameter Group	C.A.S. Number
00409	ALKALINITY, TOTAL, LOW LEVEL GRAN ANALYSIS (µEQ/L)	471341
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	471341
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	77098
00430	ALKALINITY, CARBONATE (MG/L AS CACO3)	471341
00435	ACIDITY, TOTAL (MG/L AS CACO3)	471341
00440	BICARBONATE ION (MG/L AS HCO3)	71523
00445	CARBONATE ION (MG/L AS CO3)	3812326

STORET Code	Nitrate/Nitrogen Parameter Group	C.A.S. Number
00600	NITROGEN, TOTAL (MG/L AS N)	17778880
00602	NITROGEN, DISSOLVED (MG/L AS N)	17778880
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	17778880
00607	NITROGEN, ORGANIC, DISSOLVED (MG/L AS N)	17778880
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	17778880
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	17778880
00612	AMMONIA, UNIONZED (MG/L AS N)	7664417
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	17778880
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	17778880
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	17778880
00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	17778880
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	17778880
00631	NITRITE PLUS NITRATE, DISSOLVED 1 DET. (MG/L AS N)	17778880
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	14798039
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	14798039
71850	NITRATE NITROGEN, TOTAL (MG/L AS NO3)	14797558
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	14797558
71855	NITRITE NITROGEN, TOTAL (MG/L AS NO2)	14797650
71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	14797650

STORET Code	Phosphate/Phosphorus Parameter Group	C.A.S. Number
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	14265442
00655	PHOSPHATE, POLY (MG/L AS PO4)	14265442
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	14265442
00665	PHOSPHORUS, TOTAL (MG/L AS P)	7723140
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	7723140
00670	PHOSPHORUS, TOTAL ORGANIC (MG/L AS P)	7723140
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	7723140
70505	PHOSPHORUS, TOTAL, COLORIMETRIC METHOD (MG/L AS P)	7723140
70507	PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	7723140

STORET Code	Sulfates/Total Dissolved Solids/Hardness Parameter Group	C.A.S. Number
00900	HARDNESS, TOTAL (MG/L AS CACO3)	471341
00945	SULFATE, TOTAL (MG/L AS SO4)	14808798
00946	SULFATE, DISSOLVED (MG/L AS SO4)	14808798
70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), (MG/L)	-

STORET Code	Chlorophyll Parameter Group	C.A.S. Number
32209	CHLOROPHYLL A (UG/L) FLUOROMETRIC CORRECTED	479618
32210	CHLOROPHYLL A (UG/L) TRICHROMATIC UNCORRECTED	479618
32211	CHLOROPHYLL A (UG/L) SPECTROPHOTOMETRIC ACID METH.	479618
32217	CHLOROPHYLL A (UG/L) FLUOROMETRIC UNCORRECTED	479618
32223	CHLOROPHYLL A (MG/M2) SPECTROPHOTOMETRIC CORRECTED	479618
32228	CHLOROPHYLL A (MG/M2) PERIPHYTON SPECTRO.	479618
32229	CHLOROPHYLL A (MG/M2) FLUOR. CORRECTED, SUBSTRATER	479618
32230	CHLOROPHYLL A (MG/L)	479618

STORET Code	Bacteria Parameter Group	C.A.S. Number
00111	RATIO OF FECAL COLIFORM TO FECAL STREPTOCOCCI	-
31501	COLIFORM, TOT, MEMBRANE FILTER, IMMED., M-ENDO MED,35C	-
31503	COLIFORM, TOT, MEMBRANE FILTER, DELAY, M-ENDO MED, 35C	-
31504	COLIFORM, TOT, MEMBRANE FILTER, IMMED., LES-ENDO AGAR, 35C	-
31505	COLIFORM, TOT, MPN, CONFIRMED TEST,35C(TUBE 31506)	-
31506	COLIFORM, TOT, MPN, CONFIRMED TEST, TUBE CONFIG.	-
31507	COLIFORM, TOT, MPN, COMPLETED TEST,35C(TUBE 31508)	-
31508	COLIFORM, TOT, MPN, COMPLETED TEST, TUBE CONFIG.	-
31613	FECAL COLIFORM, MEMBR, FILTER,M-FC AGAR,44.5C,24HR	-
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	-
31615	FECAL COLIFORM, MPN, EC MED, 44.5C (TUBE 31614)	-
31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5C	-
31617	FECAL COLIFORM, MPN,EIJKMAN TEST,44.5C(TUBE 31618)	-
31625	FECAL COLIFORM, MF, M-FC, 0.7 UM	-
31648	E. COLI - MTEC-MF	-
31649	ENTEROCOCCI- ME-MF	-
31673	FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR	-
31676	FECAL STREPTOCOCCI, MPN, KF BROTH, TUBE CONFIG.	-
31677	FECAL STREPTOCOCCI, MPN, AD-EVA, 35C (TUBE 31678)	-
31751	PLATE COUNT, TOTAL, TPC AGAR, 35C, 24 HRS	-

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants)	C.A.S. Number
00718	CYANIDE, WEAK ACID, DISSOC. WATER, WHOLE (UG/L)	57125
00719	CYANIDE, FREE, IN WATER & WASTEWATERS, HBG (UG/L)	57125
00720	CYANIDE, TOTAL (MG/L AS CN)	57125
00722	CYANIDE, FREE (AMENABLE TO CHLORINATION) (MG/L)	57125
00723	CYANIDE, DISSOLVED STD METHOD (UG/L)	57125
00724	CYANIDE COMPLEXED TO A RANGE OF COMPNDS (UG/L)	57125

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
00969	CHRYSOTILE ASBESTOS FIBERS/LITER	1332214
00973	AMPHIBOLE ASBESTOS FIBERS/LITER	1332214
00976	AMBIGUOUS ASBESTOS FIBERS/LITER	1332214
00977	NON-AMPHIBOLE NON-CHRYSOTILE ASBESTOS FIBERS/LITER	1332214
00978	ARSENIC, TOTAL RECOVERABLE IN WATER AS AS	7440382
00981	SELENIUM, TOTAL RECOVERABLE IN WATER AS SE (UG/L)	7782492
00982	THALLIUM, TOTAL RECOVERABLE IN WATER AS (UG/L)	7440280
00990	SELENITE, TOTAL RECOVERABLE INORGANIC (UG/L)	7782492
00991	ARSENIC, TOTAL RECOVER. TRIVALENT INORGANIC (UG/L)	7440382
00995	ARSENIC, INORGANIC DISSOLVED (UG/L AS AS)	7440382
00996	ARSENIC, INORGANIC SUSPENDED (UG/L AS AS)	7440382
00997	ARSENIC, INORGANIC TOTAL (UG/L AS AS)	7440382
00998	BERYLLIUM, TOTAL RECOVERABLE IN WATER AS BE (UG/L)	7440417
01000	ARSENIC, DISSOLVED (UG/L AS AS)	7440382
01001	ARSENIC, SUSPENDED (UG/L AS AS)	7440382
01002	ARSENIC, TOTAL (UG/L AS AS)	7440382
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	7440417
01011	BERYLLIUM, SUSPENDED (UG/L AS BE)	7440417
01012	BERYLLIUM, TOTAL (UG/L AS BE)	7440417
01025	CADMIUM, DISSOLVED (UG/L AS CD)	7440439
01026	CADMIUM, SUSPENDED (UG/L AS CD)	7440439
01027	CADMIUM, TOTAL (UG/L AS CD)	7440439
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	7440473
01031	CHROMIUM, SUSPENDED (UG/L AS CR)	7440473
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	7440473
01033	CHROMIUM, TRI-VAL (UG/L AS CR)	16065831
01034	CHROMIUM, TOTAL (UG/L AS CR)	7440473
01040	COPPER, DISSOLVED (UG/L AS CU)	7440508

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
01041	COPPER, SUSPENDED (UG/L AS CU)	7440508
01042	COPPER, TOTAL (UG/L AS CU)	7440508
01049	LEAD, DISSOLVED (UG/L AS PB)	7439921
01050	LEAD, SUSPENDED (UG/L AS PB)	7439921
01051	LEAD, TOTAL (UG/L AS PB)	7439921
01057	THALLIUM, DISSOLVED (UG/L AS TL)	7440280
01058	THALLIUM, SUSPENDED (UG/L AS TL)	7440280
01059	THALLIUM, TOTAL (UG/L AS TL)	7440280
01065	NICKEL, DISSOLVED (UG/L AS NI)	7440020
01066	NICKEL, SUSPENDED (UG/L AS NI)	7440020
01067	NICKEL, TOTAL (UG/L AS NI)	7440020
01074	NICKEL, TOTAL RECOVERABLE IN WATER AS NI (UG/L)	7440020
01075	SILVER, DISSOLVED (UG/L AS AG)	7440224
01076	SILVER, SUSPENDED (UG/L AS AG)	7440224
01077	SILVER, TOTAL (UG/L AS AG)	7440224
01079	SILVER, TOTAL RECOVERABLE IN WATER AS AG (UG/L)	7440224
01089	COPPER AS SUSPENDED BLACK OXIDE IN WATER (MG/L)	7440508
01090	ZINC, DISSOLVED (UG/L AS ZN)	7440666
01091	ZINC, SUSPENDED (UG/L ZN)	7440666
01092	ZINC, TOTAL (UG/L AS ZN)	7440666
01094	ZINC, TOTAL RECOVERABLE IN WATER AS ZN (UG/L)	7440666
01095	ANTIMONY, DISSOLVED (UG/L AS SB)	7440360
01096	ANTIMONY, SUSPENDED (UG/L AS SB)	7440360
01097	ANTIMONY, TOTAL (UG/L AS SB)	7440360
01113	CADMIUM, TOTAL RECOVERABLE IN WATER AS CD (UG/L)	7440439
01114	LEAD, TOTAL RECOVERABLE IN WATER AS PB (UG/L)	7439921
01118	CHROMIUM, TOTAL RECOVERABLE IN WATER AS CR (UG/L)	7440473
01119	COPPER,TOTAL RECOVERABLE IN WATER AS CU (UG/L)	7440508

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
01124	THALLIUM, ACID SOLUBLE, WATER, WHOLE (UG/L)	7440280
01128	THALLIUM,TOTAL RECOVERABLE <95%, UG/L AS TL	7440280
01138	SELENIUM, IN WATER, LBS/DAY	7782492
01145	SELENIUM, DISSOLVED (UG/L AS SE)	7782492
01146	SELENIUM, SUSPENDED (UG/L AS SE)	7782492
01147	SELENIUM, TOTAL (UG/L AS SE)	7782492
01167	SELENIUM, ACID SOLUBLE, WATER, WHOLE (UG/L)	7782492
01220	CHROMIUM, HEXAVALENT, DISSOLVED IN (UG/L AS CR)	18540299
01252	ARSENIC, LB/DAY/CFS STREAM FLOW	7440382
01253	CADMIUM, LB/DAY/CFS STREAM FLOW	7440439
01254	CHROMIUM, TOTAL (LBS/DAY/CFS STREAM FLOW)	7740473
01255	CHROMIUM, HEXAVALENT, LB/DAY/CFS STREAM FLOW	18540299
01256	COPPER, LB/DAY/CFS STREAM FLOW	7440508
01257	CYANIDE LB/DAY/CFS STREAM FLOW	57125
01259	LEAD, LB/DAY/CFS STREAM FLOW	7439921
01260	MERCURY, LB/DAY/CFS STREAM FLOW	7439976
01261	NICKEL, LB/DAY/CFS STREAM FLOW	7440020
01263	SILVER, LB/DAY/CFS STREAM FLOW	7440224
01264	ZINC LB/DAY/CFS STREAM FLOW	7440666
01268	ANTIMONY, (SB), WATER, TOTAL RECOVERABLE (UG/L)	7440360
01291	CYANIDE, FILTERABLE, TOTAL IN WATER (UG/L)	57125
01303	ZINC, POTENTIALLY DISSOLVED WATER (MG/L)	7440666
01304	SILVER, POTENTIALLY DISSOLVED WATER (MG/L)	7440224
01306	COPPER, POTENTIALLY DISSOLVED WATER (MG/L)	7440508
01307	CHROMIUM, HEXAVALENT, POTENT. DISS. WATER (MG/L)	18540299
01309	ARSENIC, POTENTIALLY, DISSOLVED, WATER (MG/L)	7440382
01312	BERYLLIUM, POTENTIALLY, DISSOLVED, WATER (MG/L)	7440417
01313	CADMIUM, POTENTIALLY, DISSOLVED, WATER (MG/L)	7440439

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
01314	CHROMIUM, TRIVALENT, POTENT., DISS., WATER (MG/L)	16065831
01318	LEAD, POTENTIALLY, DISSOLVED, WATER (MG/L)	7439921
01321	MERCURY, POTENTIALLY, DISSOLVED, WATER (MG/L)	7439976
01322	NICKEL, POTENTIALLY, DISSOLVED, WATER (MG/L)	7440020
01323	SELENIUM, POTENTIALLY, DISSOLVED, WATER (MG/L)	7782492
01324	THALLIUM, POTENTIALLY, DISSOLVED, WATER (MG/L)	7440280
01523	SILVER, IONIC (UG/L)	7440224
22675	SELENIUM, DISSOLVED ORGANIC (UG/L)	7782492
22676	SELENIUM, HEXAVALENT, DISSOLVED (UG/L)	7782492
22677	SELENIUM, TETRAVALENT, DISSOLVED	7782492
22678	ARSENIC, DISSOLVED ORGANIC (UG/L)	7440382
22679	ARSENIC, PENTAVALENT, DISSOLVED (UG/L)	7440382
22680	ARSENIC, TRIVALENT, DISSOLVED (UG/L)	7440382
30197	2-CHLOROETHYLVINYL ETHER,WATER,WHL,RECOVER (UG/L)	110758
30201	CHLOROMETHANE, WATER, WHOLE, RECOVERABLE (UG/L)	74873
30202	BROMOMETHANE, WATER, WHOLE, RECOVERABLE (UG/L)	74839
32003	CARBON CHLOROFORM AND CARBON ALCOHOL EXT. (UG/L)	67663
32005	CARBON CHLOROFORM EXTRACTABLES (UG/L)	67663
32021	CARBON CHLOROFORM EXTRACTS, ETHER INSOLUBLE (UG/L)	67663
32022	CARBON CHLOROFORM EXTRACTS, WATER SOLUBLES (UG/L)	67663
32101	BROMODICHLOROMETHANE, WHOLE WATER (UG/L)	75274
32102	CARBON TETRACHLORIDE, WHOLE WATER, (UG/L)	56235
32103	1,2-DICHLOROETHANE, WHOLE WATER (UG/L)	107062
32104	BROMOFORM, WHOLE WATER, (UG/L)	75252
32105	DIBROMOCHLOROMETHANE, WHOLE WATER, (UG/L)	124481
32106	CHLOROFORM, WHOLE WATER (UG/L)	67663
32260	CARBON TETRACHLORIDE EXTRACTABLES (MG/L)	56235
32270	CHLOROFORM EXTRACTABLES TOTAL IN MG PER LITER	67663

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34010	TOLUENE IN WTR SMPLE GC-MS, HEXADECONE EXT. (UG/L)	108883
34030	BENZENE IN WTR SMPLE GC-MS, HEXADECONE EXT. (UG/L)	71432
34198	BHC-DELTA, WATER, WHOLE (LBS/DAY)	319868
34200	ACENAPHTHYLENE, TOTAL (UG/L)	208968
34201	ACENAPHTHYLENE, DISSOLVED (UG/L)	208968
34202	ACENAPHTHYLENE, SUSPENDED (UG/L)	208968
34205	ACENAPHTHENE, TOTAL (UG/L)	83329
34206	ACENAPHTHENE, DISSOLVED (UG/L)	83329
34207	ACENAPHTHENE, SUSPENDED (UG/L)	83329
34210	ACROLEIN, TOTAL (UG/L)	107028
34211	ACROLEIN, DISSOLVED (UG/L)	107028
34212	ACROLEIN, SUSPENDED (UG/L)	107028
34215	ACRYLONITRILE, TOTAL (UG/L)	107131
34216	ACRYLONITRILE, DISSOLVED (UG/L)	107131
34217	ACRYLONITRILE, SUSPENDED (UG/L)	107131
34220	ANTHRACENE, TOTAL (UG/L)	120127
34221	ANTHRACENE, DISSOLVED (UG/L)	120127
34222	ANTHRACENE, SUSPENDED (UG/L)	120127
34225	ASBESTOS (FIBROUS) TOTAL (UG/L)	1332214
34226	ASBESTOS (FIBROUS) DISSOLVED (UG/L)	1332214
34227	ASBESTOS (FIBROUS) SUSPENDED (UG/L)	1332214
34230	BENZO(B)FLUORANTHENE, WHOLE WATER (UG/L)	205992
34231	BENZO(B)FLUORANTHENE, DISSOLVED (UG/L)	205992
34232	BENZO(B)FLUORANTHENE, SUSPENDED (UG/L)	205992
34235	BENZENE, DISSOLVED (UG/L)	71432
34236	BENZENE, SUSPENDED (UG/L)	71432
34239	BENZIDINE, DISSOLVED (UG/L)	92875
34240	BENZIDINE, SUSPENDED (UG/L)	92875

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34242	BENZO(K)FLUORANTHENE, TOTAL (UG/L)	207089
34243	BENZO(K)FLUORANTHENE, DISSOLVED (UG/L)	207089
34244	BENZO(K)FLUORANTHENE, SUSPENDED (UG/L)	207089
34247	BENZO-A-PYRENE, TOTAL (UG/L)	50328
34248	BENZO-A-PYRENE, DISSOLVED (UG/L)	50328
34249	BENZO-A-PYRENE, SUSPENDED (UG/L)	50328
34253	A-BHC-ALPHA, DISSOLVED (UG/L)	319846
34254	A-BHC-ALPHA, SUSPENDED (UG/L)	319846
34255	B-BHC-BETA, DISSOLVED (UG/L)	319857
34256	B-BHC-BETA, SUSPENDED (UG/L)	319857
34259	DELTA BENZENE HEXACHLORIDE, TOTAL (UG/L)	319868
34260	DELTA BENZENE HEXACHLORIDE, DISSOLVED (UG/L)	319868
34261	DELTA BENZENE HEXACHLORIDE, SUSPENDED (UG/L)	319868
34265	R-BHC (LINDANE) GAMMA, DISSOLVED (UG/L)	58899
34266	R-BHC (LINDANE) GAMMA, SUSPENDED (UG/L)	58899
34273	BIS (2-CHLOROETHYL) ETHER, TOTAL (UG/L)	111444
34274	BIS (2-CHLOROETHYL) ETHER, DISSOLVED (UG/L)	111444
34275	BIS (2-CHLOROETHYL) ETHER, SUSPENDED (UG/L)	111444
34278	BIS (2-CHLOROETHOXY) METHANE, TOTAL (UG/L)	111911
34279	BIS (2-CHLOROETHOXY) METHANE, DISSOLVED (UG/L)	111911
34280	BIS (2-CHLOROETHOXY) METHANE, SUSPENDED (UG/L)	111911
34288	BROMOFORM, DISSOLVED (UG/L)	75252
34289	BROMOFORM, SUSPENDED (UG/L)	75252
34292	N-BUTYL BENZYL PHTHALATE, WHOLE WATER (UG/L)	85687
34293	N-BUTYL BENZYL PHTHALATE, DISSOLVED (UG/L)	85687
34294	N-BUTYL BENZYL PHTHALATE, SUSPENDED (UG/L)	85687
34297	CARBON TETRACHLORIDE, DISSOLVED (UG/L)	56235
34298	CARBON TETRACHLORIDE, SUSPENDED (UG/L)	56235

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34301	CHLOROBENZENE, TOTAL (UG/L)	108907
34302	CHLOROBENZENE, DISSOLVED (UG/L)	108907
34303	CHLOROBENZENE, SUSPENDED (UG/L)	108907
34306	CHLORODIBROMOMETHANE, TOTAL (UG/L)	124481
34307	CHLORODIBROMOMETHANE, DISSOLVED (UG/L)	124481
34308	CHLORODIBROMOMETHANE, SUSPENDED (UG/L)	124481
34311	CHLOROETHANE, TOTAL (UG/L)	75003
34312	CHLOROETHANE, DISSOLVED (UG/L)	75003
34313	CHLOROETHANE, SUSPENDED (UG/L)	75003
34316	CHLOROFORM, DISSOLVED (UG/L)	67663
34317	CHLOROFORM, SUSPENDED (UG/L)	67663
34320	CHRYSENE, TOTAL (UG/L)	218019
34321	CHRYSENE, DISSOLVED (UG/L)	218019
34322	CHRYSENE, SUSPENDED (UG/L)	218019
34325	CYANIDE, SUSPENDED (MG/L)	57125
34327	DI-N-BUTYL PHTHALATE, DISSOLVED (UG/L)	84742
34328	DICHLOROBROMOMETHANE, DISSOLVED (UG/L)	75274
34329	DICHLOROBROMOMETHANE, SUSPENDED (UG/L)	75274
34336	DIETHYL PHTHALATE, TOTAL (UG/L)	84662
34337	DIETHYL PHTHALATE, DISSOLVED (UG/L)	84662
34338	DIETHYL PHTHALATE, SUSPENDED (UG/L)	84662
34341	DIMETHYL PHTHALATE, TOTAL (UG/L)	131113
34342	DIMETHYL PHTHALATE, DISSOLVED (UG/L)	131113
34343	DIMETHYL PHTHALATE, SUSPENDED (UG/L)	131113
34346	1,2-DIPHENYLHYDRAZINE, TOTAL (UG/L)	122667
34347	1,2-DIPHENYLHYDRAZINE, DISSOLVED (UG/L)	122667
34348	1,2-DIPHENYLHYDRAZINE, SUSPENDED (UG/L)	122667
34351	ENDOSULFAN SULFATE, TOTAL (UG/L)	1031078

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34352	ENDOSULFAN SULFATE, DISSOLVED (UG/L)	1031078
34353	ENDOSULFAN SULFATE, SUSPENDED (UG/L)	1031078
34356	ENDOSULFAN, BETA, TOTAL (UG/L)	33213659
34357	ENDOSULFAN, BETA, DISSOLVED (UG/L)	33213659
34358	ENDOSULFAN, BETA, SUSPENDED (UG/L)	33213659
34361	ENDOSULFAN, ALPHA, TOTAL (UG/L)	959988
34362	ENDOSULFAN, ALPHA, DISSOLVED (UG/L)	959988
34363	ENDOSULFAN, ALPHA, SUSPENDED (UG/L)	959988
34371	ETHYLBENZENE, TOTAL (UG/L)	100414
34372	ETHYLBENZENE, DISSOLVED (UG/L)	100414
34373	ETHYLBENZENE, SUSPENDED (UG/L)	100414
34376	FLUORANTHENE, TOTAL (UG/L)	206440
34377	FLUORANTHENE, DISSOLVED (UG/L)	206440
34378	FLUORANTHENE, SUSPENDED (UG/L)	206440
34381	FLUORENE, TOTAL (UG/L)	86737
34382	FLUORENE, DISSOLVED (UG/L)	86737
34383	FLUORENE, SUSPENDED (UG/L)	86737
34386	HEXACHLOROCYCLOPENTADIENE, TOTAL (UG/L)	77474
34387	HEXACHLOROCYCLOPENTADIENE, DISSOLVED (UG/L)	77474
34388	HEXACHLOROCYCLOPENTADIENE, SUSPENDED (UG/L)	77474
34391	HEXACHLOROBUTADIENE, TOTAL (UG/L)	87683
34392	HEXACHLOROBUTADIENE, DISSOLVED (UG/L)	87683
34393	HEXACHLOROBUTADIENE, SUSPENDED (UG/L)	87683
34396	HEXACHLOROETHANE, TOTAL (UG/L)	67721
34397	HEXACHLOROETHANE, DISSOLVED (UG/L)	67721
34398	HEXACHLOROETHANE, SUSPENDED (UG/L)	67721
34401	HEXACHLOROBENZENE, DISSOLVED (UG/L)	118741
34402	HEXACHLOROBENZENE, SUSPENDED (UG/L)	118741

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34403	INDENO (1,2,3-CD) PYRENE, TOTAL (UG/L)	193395
34404	INDENO (1,2,3-CD) PYRENE, DISSOLVED (UG/L)	193395
34405	INDENO (1,2,3-CD) PYRENE, SUSPENDED (UG/L)	193395
34408	ISOPHORONE, TOTAL (UG/L)	78591
34409	ISOPHORONE, DISSOLVED (UG/L)	78591
34410	ISOPHORONE, SUSPENDED (UG/L)	78591
34413	METHYL BROMIDE, TOTAL (UG/L)	74839
34414	METHYL BROMIDE, DISSOLVED (UG/L)	74839
34415	METHYL BROMIDE, SUSPENDED (UG/L)	74839
34418	METHYL CHLORIDE, TOTAL (UG/L)	74873
34419	METHYL CHLORIDE, DISSOLVED (UG/L)	74873
34420	METHYL CHLORIDE, SUSPENDED (UG/L)	74873
34423	METHYLENE CHLORIDE, TOTAL (UG/L)	75092
34424	METHYLENE CHLORIDE, DISSOLVED (UG/L)	75092
34425	METHYLENE CHLORIDE, SUSPENDED (UG/L)	75092
34428	N-NITROSODI-N-PROPYLAMINE, TOTAL (UG/L)	621647
34429	N-NITROSODI-N-PROPYLAMINE, DISSOLVED (UG/L)	621647
34430	N-NITROSODI-N-PROPYLAMINE, SUSPENDED (UG/L)	621647
34433	N-NITROSODIPHENYLAMINE, TOTAL (UG/L)	86306
34434	N-NITROSODIPHENYLAMINE, DISSOLVED (UG/L)	86306
34435	N-NITROSODIPHENYLAMINE, SUSPENDED (UG/L)	86306
34438	N-NITROSODIMETHYLAMINE, TOTAL (UG/L)	62759
34439	N-NITROSODIMETHYLAMINE, DISSOLVED (UG/L)	62759
34440	N-NITROSODIMETHYLAMINE, SUSPENDED (UG/L)	62759
34443	NAPHTHALENE, DISSOLVED (UG/L)	91203
34444	NAPHTHALENE, SUSPENDED (UG/L)	91203
34447	NITROBENZENE, TOTAL (UG/L)	98953
34448	NITROBENZENE, DISSOLVED (UG/L)	98953

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34449	NITROBENZENE, SUSPENDED (UG/L)	98953
34452	PARACHLOROMETA CRESOL, TOTAL (UG/L)	59507
34453	PARACHLOROMETA CRESOL, DISSOLVED (UG/L)	59507
34454	PARACHLOROMETA CRESOL, SUSPENDED (UG/L)	59507
34457	PCB - 1242, DISSOLVED (UG/L)	53469219
34458	PCB - 1242, SUSPENDED (UG/L)	53469219
34459	PCP (PENTACHLOROPHENOL), DISSOLVED (UG/L)	87865
34460	PCP (PENTACHLOROPHENOL), SUSPENDED (UG/L)	87865
34461	PHENANTHRENE, TOTAL (UG/L)	85018
34462	PHENANTHRENE, DISSOLVED (UG/L)	85018
34463	PHENANTHRENE, SUSPENDED (UG/L)	85018
34466	PHENOL, DISSOLVED (UG/L)	108952
34467	PHENOL, SUSPENDED (UG/L)	108952
34469	PYRENE, TOTAL (UG/L)	129000
34470	PYRENE, DISSOLVED (UG/L)	129000
34471	PYRENE, SUSPENDED (UG/L)	129000
34475	TETRACHLOROETHYLENE, TOTAL (UG/L)	127184
34476	TETRACHLOROETHYLENE, DISSOLVED (UG/L)	127184
34477	TETRACHLOROETHYLENE, SUSPENDED (UG/L)	127184
34481	TOLUENE, DISSOLVED (UG/L)	108883
34482	TOLUENE, SUSPENDED (UG/L)	108883
34485	TRICHLOROETHYLENE, DISSOLVED (UG/L)	79016
34486	TRICHLOROETHYLENE, SUSPENDED (UG/L)	79016
34493	VINYL CHLORIDE, DISSOLVED (UG/L)	75014
34494	VINYL CHLORIDE, SUSPENDED (UG/L)	75014
34496	1,1-DICHLOROETHANE, TOTAL (UG/L)	75343
34497	1,1-DICHLOROETHANE, DISSOLVED (UG/L)	75343
34498	1,1-DICHLOROETHANE, SUSPENDED (UG/L)	75343

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34501	1,1-DICHLOROETHYLENE, TOTAL (UG/L)	75354
34502	1,1-DICHLOROETHYLENE, DISSOLVED (UG/L)	75354
34503	1,1-DICHLOROETHYLENE, SUSPENDED (UG/L)	75354
34506	1,1,1-TRICHLOROETHANE, TOTAL (UG/L)	71556
34507	1,1,1-TRICHLOROETHANE, DISSOLVED (UG/L)	71556
34508	1,1,1-TRICHLOROETHANE, SUSPENDED (UG/L)	71556
34511	1,1,2-TRICHLOROETHANE, TOTAL (UG/L)	79005
34512	1,1,2-TRICHLOROETHANE, DISSOLVED (UG/L)	79005
34513	1,1,2-TRICHLOROETHANE, SUSPENDED (UG/L)	79005
34516	1,1,2,2-TETRACHLOROETHANE, TOTAL (UG/L)	79345
34517	1,1,2,2-TETRACHLOROETHANE, DISSOLVED (UG/L)	79345
34518	1,1,2,2-TETRACHLOROETHANE, SUSPENDED (UG/L)	79345
34521	BENZO(GHI)PERYLENE1,12-BENZOPERYLENE, TOTAL (UG/L)	191242
34522	BENZO(GHI)PERYLENE1,12-BENZOPERYLENE, DISS. (UG/L)	191242
34523	BENZO(GHI)PERYLENE1,12-BENZOPERYLENE, SUSP. (UG/L)	191242
34526	BENZO(A)ANTHRACENE1,2-BENZANTHRACENE, TOTAL (UG/L)	56553
34527	BENZO(A)ANTHRACENE1,2-BENZANTHRACENE, DISS. (UG/L)	56553
34528	BENZO(A)ANTHRACENE1,2-BENZANTHRACENE, SUSP. (UG/L)	56553
34531	1,2-DICHLOROETHANE, TOTAL (UG/L)	107062
34532	1,2-DICHLOROETHANE, DISSOLVED (UG/L)	107062
34533	1,2-DICHLOROETHANE, SUSPENDED (UG/L)	107062
34536	1,2-DICHLOROBENZENE, TOTAL (UG/L)	95501
34537	1,2-DICHLOROBENZENE, DISSOLVED (UG/L)	95501
34538	1,2-DICHLOROBENZENE, SUSPENDED (UG/L)	95501
34541	1,2-DICHLOROPROPANE, TOTAL (UG/L)	78875
34542	1,2-DICHLOROPROPANE, DISSOLVED (UG/L)	78875
34543	1,2-DICHLOROPROPANE, SUSPENDED (UG/L)	78875
34546	TRANS-1,2-DICHLOROETHENE, TOTAL, IN WATER (UG/L)	156605

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34547	TRANS-1,2-DICHLOROETHENE, DISSOLVED (UG/L)	156605
34548	TRANS-1,2-DICHLOROETHENE, SUSPENDED (UG/L)	156605
34551	1,2,4-TRICHLOROBENZENE, TOTAL (UG/L)	120821
34552	1,2,4-TRICHLOROBENZENE, DISSOLVED (UG/L)	120821
34553	1,2,4-TRICHLOROBENZENE, SUSPENDED (UG/L)	120821
34556	1,2,5,6-DIBENZANTHRACENE, TOTAL (UG/L)	53703
34557	1,2,5,6-DIBENZANTHRACENE, DISSOLVED (UG/L)	53703
34558	1,2,5,6-DIBENZANTHRACENE, SUSPENDED (UG/L)	53703
34561	1,3-DICHLOROPROPENE, TOTAL (UG/L)	542756
34562	1,3-DICHLOROPROPENE, DISSOLVED (UG/L)	542756
34563	1,3-DICHLOROPROPENE, SUSPENDED (UG/L)	542756
34566	1,3-DICHLOROBENZENE, TOTAL (UG/L)	541731
34567	1,3-DICHLOROBENZENE, DISSOLVED (UG/L)	541731
34568	1,3-DICHLOROBENZENE, SUSPENDED (UG/L)	541731
34571	1,4-DICHLOROBENZENE, TOTAL (UG/L)	106467
34572	1,4-DICHLOROBENZENE, DISSOLVED (UG/L)	106467
34573	1,4-DICHLOROBENZENE, SUSPENDED (UG/L)	106467
34576	2-CHLOROETHYL VINYL ETHER, TOTAL (UG/L)	110758
34577	2-CHLOROETHYL VINYL ETHER, DISSOLVED (UG/L)	110758
34578	2-CHLOROETHYL VINYL ETHER, SUSPENDED (UG/L)	110758
34581	2-CHLORONAPHTHALENE, TOTAL (UG/L)	91587
34582	2-CHLORONAPHTHALENE, DISSOLVED (UG/L)	91587
34583	2-CHLORONAPHTHALENE, SUSPENDED (UG/L)	91587
34586	2-CHLOROPHENOL, TOTAL (UG/L)	95578
34587	2-CHLOROPHENOL, DISSOLVED (UG/L)	95578
34588	2-CHLOROPHENOL, SUSPENDED (UG/L)	95578
34591	2-NITROPHENOL, TOTAL (UG/L)	88755
34592	2-NITROPHENOL, DISSOLVED (UG/L)	88755

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34593	2-NITROPHENOL, SUSPENDED (UG/L)	88755
34596	DI-N-OCTYL PHTHALATE, TOTAL (UG/L)	117840
34597	DI-N-OCTYL PHTHALATE, DISSOLVED (UG/L)	117840
34598	DI-N-OCTYL PHTHALATE, SUSPENDED (UG/L)	117840
34601	2,4-DICHLOROPHENOL, TOTAL (UG/L)	120832
34602	2,4-DICHLOROPHENOL, DISSOLVED (UG/L)	120832
34603	2,4-DICHLOROPHENOL, SUSPENDED (UG/L)	120832
34606	2,4-DIMETHYLPHENOL, TOTAL (UG/L)	105679
34607	2,4-DIMETHYLPHENOL, DISSOLVED (UG/L)	105679
34608	2,4-DIMETHYLPHENOL, SUSPENDED (UG/L)	105679
34611	2,4-DINITROTOLUENE, TOTAL (UG/L)	121142
34612	2,4-DINITROTOLUENE, DISSOLVED (UG/L)	121142
34613	2,4-DINITROTOLUENE, SUSPENDED (UG/L)	121142
34616	2,4-DINITROPHENOL, TOTAL (UG/L)	51285
34617	2,4-DINITROPHENOL, DISSOLVED (UG/L)	51285
34618	2,4-DINITROPHENOL, SUSPENDED (UG/L)	51285
34621	2,4,6-TRICHLOROPHENOL, TOTAL (UG/L)	88062
34622	2,4,6-TRICHLOROPHENOL, DISSOLVED (UG/L)	88062
34623	2,4,6-TRICHLOROPHENOL, SUSPENDED (UG/L)	88062
34626	2,6-DINITROTOLUENE, TOTAL (UG/L)	606202
34627	2,6-DINITROTOLUENE, DISSOLVED (UG/L)	606202
34628	2,6-DINITROTOLUENE, SUSPENDED (UG/L)	606202
34631	3,3'-DICHLOROBENZIDINE, TOTAL (UG/L)	91941
34632	3,3'-DICHLOROBENZIDINE, DISSOLVED (UG/L)	91941
34633	3,3'-DICHLOROBENZIDINE, SUSPENDED (UG/L)	91941
34636	4-BROMOPHENYL PHENYL ETHER, TOTAL (UG/L)	101553
34637	4-BROMOPHENYL PHENYL ETHER, DISSOLVED (UG/L)	101553
34638	4-BROMOPHENYL PHENYL ETHER, SUSPENDED (UG/L)	101553

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34641	4-CHLOROPHENYL PHENYL ETHER, TOTAL (UG/L)	7005723
34642	4-CHLOROPHENYL PHENYL ETHER, DISSOLVED (UG/L)	7005723
34643	4-CHLOROPHENYL PHENYL ETHER, SUSPENDED (UG/L)	7005723
34646	4-NITROPHENOL, TOTAL (UG/L)	100027
34647	4-NITROPHENOL, DISSOLVED (UG/L)	100027
34648	4-NITROPHENOL, SUSPENDED (UG/L)	100027
34651	P,P'-DDD, DISSOLVED (UG/L)	72548
34652	P,P'-DDD, SUSPENDED (UG/L)	72548
34653	P,P'-DDE, DISSOLVED (UG/L)	72559
34654	P,P'-DDE, SUSPENDED (UG/L)	72559
34655	P,P'-DDT, DISSOLVED (UG/L)	50293
34656	P,P'-DDT, SUSPENDED (UG/L)	50293
34657	DNOC (4,6-DINITRO-ORTHO-CRESOL), TOTAL (UG/L)	534521
34658	DNOC (4,6-DINITRO-ORTHO-CRESOL), DISSOLVED (UG/L)	534521
34659	DNOC (4,6-DINITRO-ORTHO-CRESOL), SUSPENDED (UG/L)	534521
34662	PCB - 1221, DISSOLVED (UG/L)	11104282
34663	PCB - 1221, SUSPENDED (UG/L)	11104282
34665	PCB - 1232, DISSOLVED (UG/L)	11141165
34666	PCB - 1232, SUSPENDED (UG/L)	11141165
34671	PCB - 1016, TOTAL (UG/L)	12674112
34672	PCB - 1016, DISSOLVED (UG/L)	12674112
34673	PCB - 1016, SUSPENDED (UG/L)	12674112
34675	2,3,7,8-TETRACHLORODIBENZO-PDIOXIN(TCDD),TOT(UG/L)	1746016
34676	2,3,7,8-TETRACHLORODIBENZO-PDIOXIN(TCDD)DISS(UG/L)	1746016
34677	2,3,7,8-TETRACHLORODIBENZO-PDIOXIN(TCDD)SUSP(UG/L)	1746016
34694	PHENOL(C6H5OH)-SINGLE COMPOUND TOTAL (UG/L)	108952
34696	NAPHTHALENE, TOTAL (UG/L)	91203
34750	2,3,7,8-TETRACHLORODIBENZO-PDIOXIN(TCDD)TOT(PG/L)	1746016

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34751	2,3,7,8-TETRACHLORODIBENZO-PDIOXIN(TCDD)DISS(PG/L)	1746016
34752	2,3,7,8-TETRACHLORODIBENZO-PDIOXIN(TCDD)SUSP(PG/L)	1746016
39032	PCP (PENTACHLOROPHENOL) WHOLE WATER SAMPLE (UG/L)	87865
39039	HEXACHLOROBENZENE WATER SAMPLE,ELECTRON CPT (UG/L)	118741
39100	BIS(2-ETHYLHEXYL) PHTHALATE, WHOLE WATER (UG/L)	117817
39103	BIS(2-ETHYLHEXYL) PHTHALATE, DISSOLVED, (UG/L)	117817
39104	BIS(2-ETHYLHEXYL) PHTHALATE, SUSPENDED, (UG/L)	117817
39107	PHTHALATES,DIETHYLHEXYL SUS.FRAC.WTR DWT (MG/KG)	117817
39110	DI-N-BUTYL PHTHALATE, WHOLE WATER (UG/L)	84742
39114	DI-N-BUTYL PHTHALATE, SUSPENDED (UG/L)	84742
39115	PHTHALATES,DIBUTYL SUS.FRAC.WATER DWT (UG/KG)	84742
39120	BENZIDINE IN WHOLE WATER SAMPLE (UG/L)	92875
39175	VINYL CHLORIDE-WHOLE WATER SAMPLE (UG/L)	75014
39180	TRICHLOROETHYLENE-WHOLE WATER SAMPLE (UG/L)	79016
39300	P,P' DDT IN WHOLE WATER SAMPLE (UG/L)	50293
39310	P,P' DDD IN WHOLE WATER SAMPLE (UG/L)	72548
39320	P,P' DDE IN WHOLE WATER SAMPLE (UG/L)	72559
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	309002
39331	ALDRIN IN FILT. FRAC. OF WAT. SAMP. (UG/L)	309002
39332	ALDRIN IN SUSP. FRAC. OF WAT. SAMP. (UG/L)	309002
39336	BHC-ALPHA, WATER, WHOLE (LBS/DAY)	319846
39337	ALPHA BENZENE HEXACHLORIDE IN WHOLE WATER (UG/L)	319846
39338	BETA BENZENE HEXACHLORIDE IN WHOLE WATER (UG/L)	319857
39340	GAMMA-BHC(LINDANE), WHOLE WATER (UG/L)	58899
39341	GAMMA-BHC(LINDANE), DISSOLVED (UG/L)	58899
39342	GAMMA-BHC(LINDANE), SUSPENDED (UG/L)	58899
39344	BHC-GAMMA, WATER, WHOLE (LBS/DAY)	58899
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATER (UG/L)	57749

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
39352	CHLORDANE(TECH MIX & METABS), DISSOLVED (UG/L)	57749
39353	CHLORDANE(TECH MIX & METABS), SUSPENDED (UG/L)	57749
39360	DDD IN WHOLE WATER SAMPLE (UG/L)	72548
39361	DDD IN FILT. FRAC. OF WATER SMAPLE (UG/L)	72548
39362	DDD IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	72548
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	72559
39366	DDE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	72559
39367	DDE IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	72559
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	50293
39371	DDT IN FILT. FRAC. OF WATER SAMPLE (UG/L)	50293
39372	DDT IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	50293
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	60571
39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	60571
39382	DIELDRIN IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	60571
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	72208
39391	ENDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	72208
39392	ENDRIN IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	72208
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	8001352
39401	TOXAPHENE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	8001352
39402	TOXAPHENE IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	8001352
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	76448
39411	HEPTACHLOR IN FILT. FRAC. OF WATER SAMPLE (UG/L)	76448
39412	HEPTACHLOR IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	76448
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	1024573
39421	HEPTACHLOR EPOXIDE IN FILT. FRAC. WAT. SAM. (UG/L)	1024573
39422	HEPTACHLOR EPOXIDE IN SUSP. FRAC. WAT. SAM. (UG/L)	1024573
39488	PCB - 1221 IN THE WHOLE WATER SAMPLE (UG/L)	11104282
39492	PCB - 1232 PCB SERIES WHOLE WATER SAMPLE (UG/L)	11141165

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
39496	PCB - 1242 PCB SERIES WHOLE WATER SAMPLE (UG/L)	53469219
39500	PCB - 1248 PCB SERIES WHOLE WATER SAMPLE (UG/L)	12672296
39501	PCB - 1248 IN FILT. FRAC. OF WATER SAMPLE (UG/L)	12672296
39502	PCB - 1248 IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	12672296
39504	PCB - 1254 PCB SERIES WHOLE WATER SAMPLE (UG/L)	11097691
39505	PCB - 1254 IN FILT. FRAC. OF WATER SAMPLE (UG/L)	11097691
39506	PCB - 1254 IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	11097691
39508	PCB - 1260 PCB SERIES WHOLE WATER SAMPLE (UG/L)	11096825
39509	PCB - 1260 IN FILT. FRAC. OF WATER SAMPLE (UG/L)	11096825
39510	PCB - 1260 IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	11096825
39700	HEXACHLOROBENZENE IN WHOLE WATER SAMPLE (UG/L)	118741
39702	HEXACHLOROBUTADIENE IN WHOLE WATER SAMPLE (UG/L)	87683
39782	LINDANE IN WHOLE WATER SAMPLE (UG/L)	58899
39920	DNOC IN WHOLE WATER SAMPLE (UG/L)	534521
46322	LINDANE PLUS ISOMERS IN WHOLE WATER SAMPLE (UG/L)	58899
46323	DELTA-BHC IN WHOLE WATER SAMPLE (UG/L)	319868
46326	HEPTACHLOR AND METABOLITES IN WH. H2O SAMP. (UG/L)	76448
46479	CYANIDE, DISSOLVED, WATER (UG/L)	57125
46551	ARSENIC, FIELD ACIDIFIED W/HNO3, LAB FILT. (UG/L)	7440382
46559	CADMIUM, FIELD ACIDIFIED-HNO3-LAB FILTER (UG/L-CD)	7440439
46560	CHROMIUM, FIELD ACIDIFIED-HN03-LAB FILT. (UG/L-CR)	7440473
46562	COPPER, FIELD ACIDIFIED-HNO3-LAB FILTER. (UG/L-CU)	7440508
46564	LEAD, FIELD ACIDIFIED-HNO3-LAB FILTERED (UG/L-PB)	7439921
46566	SILVER, FIELD ACIDIFIED-HNO3-LAB FILTER.(UG/L-AG)	7440224
46567	ZINC, EXTRACT. FIELD ACID W/HNO3, LAB FILT. (UG/L)	7440666
70012	PARACHLOROMETA CRESOL, WATER, WHOLE (LBS/DAY)	59507
70017	HEXACHLOROCYCLOPENTADIENE, WATER, WHOLE (LBS/DAY)	77474
70021	LEAD, (TCLP), WATER, TOTAL (MG/L)	7439921

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
71890	MERCURY, DISSOLVED (UG/L AS HG)	7439976
71895	MERCURY, SUSPENDED (UG/L AS HG)	7439976
71900	MERCURY, TOTAL (UG/L AS HG)	7439976
71901	MERCURY, TOTAL RECOVERABLE IN WATER AS HG (UG/L)	7439976
71946	CADMIUM, EXTRACTABLE (UG/L AS CD)	7440439
71947	CHROMIUM, EXTRACTABLE (UG/L AS CR)	7440473
71949	LEAD, EXTRACTABLE (UG/L AS PB)	7439921
71950	ZINC, EXTRACTABLE (UG/L AS ZN)	7440666
71951	COPPER, EXTRACTABLE (UG/L AS CU)	7440508
73063	CHLOROGUAIACOL,4-, TOTAL, WATER (UG/L)	16766306
73522	PROPANE, 2,2'-OXYBIS(1-CHLORO)- TOTAL (UG/L)	108601
77163	1,3-DICHLOROPROPENE-1, WHOLE WATER (UG/L)	542756
77354	1,1-DICHLORO-2,2-DIFLUOROETHANE WHOLE WATER (UG/L)	471432
77771	3-CHLORO-4-HYDROXYBENZOPHENONE, WHOLE WATER (UG/L)	55191203
78113	ETHYL BENZENE WHOLE WATER SAMPLE (UG/L)	100414
78124	BENZENE IN WATER (VOLATILE ANALYSIS) (UG/L)	71432
78131	TOLUENE IN WHOLE WATER (VOLATILE ANALYSIS) (UG/L)	108883
78208	2,4-DINITRO-O-CRESOL IN WHOLE WATER SAMPLE (UG/L)	534521
78247	CHROMIUM, HEXAVALENT, TOTAL RECOVERABLE, WT (UG/L)	18540299
78248	CYANIDE, TOTAL RECOVERABLE, WATER, WHOLE (UG/L)	57125
80357	CHROMIUM, TRIVALENT, DISSOLVED, AS CR	16065831
81208	CYANIDE, FREE (NOT AMEN. TO CHLORINATION) (MG/L)	57125
81210	CYANIDE - STATE OF ILLINOIS (MG/L)	57125
81214	CADMIUM - STATE OF ILLINOIS (MG/L)-COLD	7440439
81215	CHROMIUM - STATE OF ILLINOIS (MG/L), COLD DIGEST	18540299
81216	CHROMIUM(TRI)-STATE OF ILLINOIS (MG/L)-COLD DIGEST	16065831
81217	CHROMIUM, TOTAL - STATE OF ILLINOIS (MG/L) COLD DIGEST	7440473
81218	COPPER, STATE OF ILLINOIS, MG/L, COLD DIGEST	7440508

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
81220	LEAD, STATE OF ILLINOIS, MG/L, COLD DIGEST	7439921
81222	NICKEL - STATE OF ILLINOIS, MG/L, COLD DIGEST	7440020
81223	SILVER, STATE OF ILLINOIS, MG/L, COLD DIGEST	7440224
81224	ZINC - STATE OF ILLINOIS, MG/L, COLD DIGEST	7440666
81642	SILVER (AG) IN WATER POUNDS PER DAY (LBS/DAY)	7440224
81750	COPPER, INTERSTITIAL WATER FROM SEDIMENTS (UG/L)	7440508
81751	LEAD, INTERSTITIAL WATER FROM SEDIMENTS (UG/L)	7439921
81752	NICKEL, INTERSTITIAL WATER FROM SEDIMENTS (UG/L)	7440020
81753	CADMIUM, INTERSTITIAL WATER FROM SEDIMENT	7440439
81754	ZINC, INTERSTITIAL WATER FROM SEDIMENTS (UG/L)	7440666
81766	HEPTACHLOR EPOXIDE IN EPILITHIC ALGAE SED. (UG/KG)	1024573
81931	MERCURY (HG) SUSPENDED FRACTION OF WATER (UG/G)	7439976
81932	CADMIUM (CD) SUSPENDED FRACTION OF WATER (UG/G)	7440439
81933	ZINC (ZN) SUSPENDED FRACTION OF WATER (UG/G)	7440666
81934	LEAD (PB) SUSPENDED FRACTION OF WATER (UG/G)	7439921
81936	LEAD (PB) DISSOLVED CATIONIC SPECIES (UG/L)	7439921
81937	CADMIUM (CD) DISSOLVED CATIONIC SPECIES (UG/L)	7440439
81938	CHROMIUM, DISSOLVED CATIONIC SPECIES (UG/L)	7440473
81939	COPPER (CU) DISSOLVED CATIONIC SPECIES (UG/L)	7440508
81940	ZINC (ZN) DISSOLVED CATIONIC SPECIES (UG/L)	7440666
81941	CHROMIUM, DISSOLVED ANIONIC SPECIES (UG/L)	7440473
81942	COPPER (CU) DISSOLVED ANIONIC SPECIES (UG/L)	7440508
81943	ZINC (ZN) DISSOLVED ANIONIC SPECIES (UG/L)	7440666
82058	CHROMIUM, TOTAL, PERCENT REMOVAL	7440473
82399	CHROMIUM, HEXAVALENT (KG/BATCH)	18540299
82512	M,P-DICHLOROBENZENE (MEASURES 1,3&1,4) TOT. (UG/L)	541731
82573	CYANIDE/CHLORINATION IN WATER (MG/L)	57125
82621	HEXACHLOROBENZENE, WATER, TOTAL RECOVER. (UG/L)	118741

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
82622	ENDRIN ALDEHYDE, WH. WATER, TOTAL RECOVER. (UG/L)	7421934
82623	ENDOSULFAN SULFATE, WATER, TOTAL RECOVER. (UG/L)	1031078
82624	ENDOSULFAN, BETA, WH. WATER, TOTAL RECOVER. (UG/L)	33213659
82626	1,2-DIPHENYLHYDRAZINE, WATER, TOTAL RECOVER. (UG/L)	122667
82627	PARACHLOROMETA CRESOL, WATER, TOTAL RECOVER. (UG/L)	59507
85006	ZINC, TOTAL - (#/DAY)	7440666
85007	CHROMIUM, TOTAL (#/DAY)	7440473
85010	NICKEL, TOTAL - (#/DAY)	7440020
85013	MERCURY, TOTAL - (#/DAY)	7439976

Appendix H

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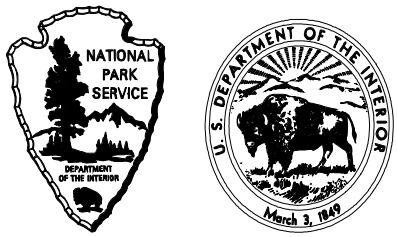
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As the nation's principal conservation agency, the Department of the Interior has the responsibility for most of our nationally owned public lands and natural and cultural resources. This includes fostering wise use of our land and water resources,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