Baseline Water Quality Data

Inventory and Analysis

Whiskeytown National Recreation Area



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

WHISKEYTOWN NATIONAL RECREATION AREA

National Park Service
Water Resources Division
Fort Collins, CO 80525

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EXECUTIVE SUMMARY

This document presents the results of surface-water-quality data retrievals for the Whiskeytown Unit (WHIS) of the Whiskeytown-Shasta-Trinity National Recreation Area 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 WHIS study area from the IFD, DRINKS, GAGES, and DAMS databases located no industrial/municipal dischargers; three drinking water intakes; seven active or inactive U. S. Geological Survey (USGS) and U. S. Bureau of Reclamation (BOR) water gages (including lake and stream); and two water impoundments. The results of the STORET retrieval for the study area yielded 71,773 observations for 275 separate parameters collected by the NPS, USGS, EPA, BOR, and California Water Resources Control Board (CWRCB) at 198 monitoring stations from 1901 through 1998[†]. Approximately 45 percent of the observations within the study area were entered by the NPS from data collected from 1962 through 1998. Of the 198 monitoring stations, 141 were located within the park boundary (see Station Period of Record Tabulation). Twenty-nine stations within the study area (13 within the park boundary) were established but contained no data. Two stations within the park boundary did not contain data appropriate for statistical analysis.

Most of the monitoring stations represent either one-time or intensive single-year sampling efforts by the collecting agencies. Twenty-one stations within the study area (17 within the park boundary) yielded longer-term records consisting of multiple observations for several important water quality parameters (see Station Period of Record Tabulation). The stations yielding the longest-term records within the park boundary are: (1) Whiskeytown Reservoir (WHIS 0029); (2) Willow Creek (WHIS 0175); (3) Clear Creek at the National Environmental Education Development (NEED) Camp Bridge (WHIS 0009); (4) Clear Creek above Whiskeytown Reservoir (WHIS 0154); and (5) Clear Creek at bridge below NEED Camp (WHIS 0008). The stations yielding the longer-term records within the study area, but outside of the park boundary, are: (1) Clear Creek near Igo (WHIS 0002); (2) Clear Creek at French Gulch (WHIS 0194); (3) Grass Valley Creek near French Gulch (WHIS 0047); and (4) Clear Creek near Igo (WHIS 0003)[††].

Screening criteria consisting of published EPA water-quality criteria and instantaneous concentration values selected

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[†]Of the 71,773 observations reported in the study area, four elevation values, entered into STORET by the BOR and CWRCB, were dated 01/01/01. The fifth oldest observation in STORET for the WHIS study area was collected in 1952. Consequently, a more representative period of record for observations in the study area would be from 1952 through 1998.

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

by the WRD were used to identify potential water quality problems within the study area. While the criteria represent important threshold concentrations of pollutants, it is important to remember that criteria may have been exceeded due to any number of natural or anthropogenic factors, including errors in field, laboratory, and/or recording procedures. The reader is advised to read the Introduction for additional caveats in interpreting the exceeded criteria in this report. The results of the WHIS water quality criteria screen found 21 groups of parameters that exceeded screening criteria at least once within the study area. Dissolved oxygen, pH, cyanide, antimony, arsenic, cadmium, copper, lead, mercury, nickel, selenium, silver, and zinc exceeded their respective EPA criteria for the protection of freshwater aquatic life. Chloride, sulfate, nitrate, antimony, arsenic, cadmium, chromium, copper, lead, mercury, nickel, thallium, and zinc exceeded their respective EPA drinking water criteria. Fecal-indicator bacteria concentrations (total coliform and fecal coliform) and turbidity exceeded the WRD screening limits for freshwater bathing and aquatic life, respectively.

Dissolved oxygen concentrations were measured 4,485 times at 42 monitoring stations from 1955 through 1998. Of the 4,331 observations used in the criteria analysis (see Remark Code Screen in the Methodology for explanation), 121 concentrations at two stations within the park, in Whiskeytown Reservoir near the dam (WHIS 0033) and Oak Bottom Spray Tributary (WHIS 0137), were less than or equal to the 4 milligrams per liter (mg/L) EPA criterion for the protection of freshwater aquatic life from 1973 through 1998. Approximately 98 percent of the observations exceeding the criterion were reported during depth sampling in Whiskeytown Reservoir near the dam (WHIS 0033) during 1997 and 1998.

The pH was measured 4,633 times at 76 monitoring stations from 1952 through 1998. Of the 4,630 observations used in the criteria analysis (see Remark Code Screen in the Methodology for explanation), 2,219 observations at 24 stations were outside the pH range of 6.5 to 9.0 standard units (SU) (EPA chronic criteria for freshwater aquatic life) from 1952 through 1994. One observation of 9.1 SU, within the park in Clear Creek above Whiskeytown Reservoir (WHIS 0154), exceeded the upper limit of the pH range in August 1979. Two-thousand-two-hundred-eighteen observations were less than or equal to pH 6.5. Approximately 99 percent of the observations less than or equal to pH 6.5 were reported from 11 stations in Spring Creek from 1952 through 1994. The lowest pH of .55 SU was reported at the Richmond Portal at Iron Mountain Mine (WHIS 0187) in January 1984.

Turbidity was measured 1,638 times at 47 monitoring stations from 1965 through 1998. Twenty-two observations at nine stations within the park, in Clear Creek (WHIS 0016, WHIS 0151, WHIS 0154, WHIS 0170), Willow Creek (WHIS 0175), Crystal Creek (WHIS 0162), Paige Boulder Creek (WHIS 0012), Brandy Creek (WHIS 0044), and Mill Creek (WHIS 0148), equaled or exceeded the WRD screening criterion of 50 Jackson Candle/Formazin/Nephelometric Turbidity Units (JTU/FTU/NTU) from 1973 through 1983. Approximately 41 percent of the observations exceeding the criterion were reported from four stations in Clear Creek (WHIS 0016, WHIS 0151, WHIS 0154, WHIS 0170), including the highest observation of 620 FTU above Whiskeytown Reservoir (WHIS 0154) in March 1983.

Total coliform concentrations were measured 183 times at 45 monitoring stations from 1976 through 1991. Fourteen concentrations at ten stations within the park, in Whiskeytown Reservoir (WHIS 0040, WHIS 0055, WHIS 0057, WHIS 0072, WHIS 0101, WHIS 0107, WHIS 0108, WHIS 0122, WHIS 0125) and Brandy Creek (WHIS 0048), exceeded the WRD bathing water screening criterion of 1,000 Colony Forming Units/Most Probable Number per 100 milliliters (CFU/MPN/100 ml) from 1976 through 1991. The highest concentration of at least 2,400 MPN/100 ml was reported three times at a cove on the north shore area of Whiskeytown Reservoir (WHIS 0072) during July 1976 and July 1977 and once south of park headquarters (WHIS 0040) in July 1976. Fecal coliform concentrations were measured 222 times at 52 monitoring stations from 1976 through 1998. Twelve concentrations at nine stations, within the park in Whiskeytown Reservoir (WHIS 0022, WHIS 0029, WHIS 0040, WHIS 0057, WHIS 0072, WHIS 0101, WHIS 0122) and Clear Creek above Whiskeytown Reservoir (WHIS 0152) and north of the park in Clear Creek above French Gulch Park (WHIS 0197), exceeded the WRD bathing water screening criterion of 200 CFU/MPN/100 ml from 1976 through 1997. The highest concentration of 1,100 MPN/100 ml was reported four times at four stations in Whiskeytown Reservoir, along the north shore (WHIS 0072, WHIS 0101) during July 1977 and near Brandy Creek Beach (WHIS 0057) and Oak Bottom Beach (WHIS 0122) in July 1986.

Chloride concentrations (including dissolved and total) were measured 351 times at 57 monitoring stations from 1952 through 1998. One total concentration of 277 mg/L at the Richmond Portal at Iron Mountain Mine (WHIS 0187) exceeded the secondary drinking water criterion of 250 mg/L in February 1984.

Total cyanide concentrations were measured nine times at four monitoring stations (WHIS 0008, WHIS 0058, WHIS 0112, WHIS 0187) from 1977 through 1998. Of the eight observations used in the criteria analysis (see EPA Water Quality Criteria Analysis for Station in the Interpretive Guide To Water Quality Results for explanation), one concentration of .03 mg/L within the park in Whiskeytown Reservoir near Brandy Creek (WHIS 0058) exceeded the acute freshwater criterion of .022 mg/L in January 1979.

Sulfate concentrations (including dissolved and total) were measured 240 times at 60 monitoring stations from 1952 through 1998. Sixty-three total concentrations at 16 stations near Iron Mountain Mine exceeded the secondary drinking water criterion of 250 mg/L during 1983 and 1984. Approximately 49 percent of the observations exceeding the criterion were reported from four stations in Spring Creek (WHIS 0097, WHIS 0102, WHIS 0141, WHIS 0145) during 1984. The highest concentration of 72,000 mg/L was reported at the Richmond Portal at Iron Mountain Mine (WHIS 0187) in January 1984.

Nitrate concentrations (including dissolved and total as N and dissolved and total as NO_3) were measured 1,177 times at 52 monitoring stations from 1952 through 1997. One total as N concentration of 10.5 mg/L within the park in Clear Creek at Coggins Bridge (WHIS 0151) exceeded the drinking water criterion of 10 mg/L for nitrate as N in April 1974.

Total antimony concentrations were measured 51 times at 25 monitoring stations from 1983 through 1998. Eighteen concentrations at the Richmond Portal at Iron Mountain Mine (WHIS 0187) exceeded the drinking water criterion of 6 micrograms per liter (µg/L) during 1983 and 1984. Fifteen of these 18 concentrations also exceeded the acute freshwater criterion of 88 µg/L during 1984, including the highest concentration of 740 µg/L in January 1984.

Arsenic concentrations (including dissolved and total) were measured 124 times at 40 monitoring stations from 1955 through 1998. Of the 121 observations used in the criteria analysis (see Remark Code Screen in the Methodology for explanation), 23 total concentrations at six stations, near Iron Mountain Mine (WHIS 0102, WHIS 0145, WHIS 0150, WHIS 0166, WHIS 0187) and in French Gulch Creek (WHIS 0195), exceeded the drinking water criterion of 50 µg/L from 1983 through 1997. Eighteen of these 23 concentrations also exceeded the acute freshwater criterion of 360 µg/L during 1983 and 1984. Approximately 88 percent of the observations exceeding the criteria were reported at the Richmond Portal at Iron Mountain Mine (WHIS 0187) during 1983 and 1984, including the highest concentration of 48,000 µg/L in January 1984.

Cadmium concentrations (including dissolved and total) were measured 234 times at 44 monitoring stations from 1971 through 1998. Of the 220 observations used in the criteria analysis (see Remark Code Screen in the Methodology and EPA Water Quality Criteria Analysis for Station in the Interpretive Guide To Water Quality Results for explanation), 108 concentrations at 22 stations exceeded the acute freshwater criterion of 3.9 µg/L from 1976 through 1984. One-hundred-five of these 108 concentrations also exceeded the drinking water criterion of 5.0 µg/L. Approximately 98 percent of the observations exceeding the criteria were reported at 20 stations near Iron Mountain Mine, including the highest concentration of 14,500 µg/L at the Richmond Portal at Iron Mountain Mine (WHIS 0187) in February 1984.

Chromium concentrations (including dissolved, dissolved hexavalent, and total) were measured 117 times at 40 monitoring stations from 1955 through 1998. Of the 102 observations used in the criteria analysis (see EPA Water Quality Criteria Analysis for Station in the Interpretive Guide To Water Quality Results for explanation), two total concentrations of 200 µg/L at the Richmond Portal at Iron Mountain Mine (WHIS 0187) exceeded the drinking water criterion of 100 µg/L in January and May 1984.

Copper concentrations (including dissolved and total) were measured 3,914 times at 57 monitoring stations from 1952 through 1998. Of the 3,913 observations used in the criteria analysis (see Remark Code Screen in the

Methodology for explanation), 3,770 concentrations at 32 stations equaled or exceeded the acute freshwater criterion of 18 µg/L from 1952 through 1997. Two-thousand-eight-hundred-ninety-five of these 3,770 concentrations also exceeded the drinking water criterion of 1,300 µg/L from 1969 through 1994. Approximately 98 percent of the observations exceeding the criteria were reported from seven stations near the Spring Creek Reservoir (WHIS 0078, WHIS 0081, WHIS 0082, WHIS 0083, WHIS 0084, WHIS 0097, WHIS 0102) from 1969 through 1994. The highest concentration of 264,000 µg/L was reported at the Richmond Portal at Iron Mountain Mine (WHIS 0187) in February 1984.

Lead concentrations (including dissolved and total) were measured 123 times at 42 monitoring stations from 1955 through 1998. Of the 119 observations used in the criteria analysis (see Remark Code Screen in the Methodology for explanation), 28 total concentrations at nine stations, near Iron Mountain Mine (WHIS 0102, WHIS 0142, WHIS 0145, WHIS 0150, WHIS 0166, WHIS 0168, WHIS 0187, WHIS 0189) and in Clear Creek (WHIS 0197), exceeded the drinking water criterion of 15 µg/L from 1983 through 1997. Twenty of these 28 concentrations also exceeded the acute freshwater criterion of 82 µg/L during 1983 and 1984. Seventy-five percent of the observations exceeding the criteria were reported at the Richmond Portal at Iron Mountain Mine (WHIS 0187) during 1983 and 1984, including the highest concentration of 4,900 µg/L in January 1984.

Mercury concentrations (including dissolved and total) were measured 106 times at 39 monitoring stations from 1971 through 1998. Five total concentrations, ranging from 2.6 µg/L to 7.2 µg/L at three stations near Iron Mountain Mine, at the Richmond Portal (WHIS 0187), in Spring Creek (WHIS 0145), and Boulder Creek (WHIS 0189), exceeded the drinking water criterion of 2 µg/L and the acute freshwater criterion of 2.4 µg/L during 1983 and 1984. The highest concentration of 7.2 µg/L was reported at the Richmond Portal at Iron Mountain Mine (WHIS 0187) in February 1984.

Total nickel concentrations were measured 88 times at 33 monitoring stations from 1983 through 1998. Of the 74 observations used in the criteria analysis (see EPA Water Quality Criteria Analysis for Station in the Interpretive Guide To Water Quality Results for explanation), five concentrations, ranging from 110 µg/L to 1,580 µg/L at four stations near Iron Mountain Mine, in Slickrock Creek (WHIS 0142, WHIS 0169), at the Richmond Portal (WHIS 0187), and in Spring Creek (WHIS 0145), exceeded the drinking water criterion of 100 µg/L during 1983 and 1984. The highest concentration of 1,580 µg/L, reported in Slickrock Creek below the plant at Iron Mountain Mine (WHIS 0169), also exceeded the acute freshwater criterion of 1,400 µg/L in May 1984.

Selenium concentrations (including dissolved and total) were measured 101 times at 36 monitoring stations from 1971 through 1998. Three total concentrations, ranging from 20 µg/L to 22 µg/L at two stations near Iron Mountain Mine, at the Richmond Portal (WHIS 0187) and in Slickrock Creek (WHIS 0169), equaled or exceeded the acute freshwater criterion of 20 µg/L during 1984. The highest concentration of 22 µg/L was reported in Slickrock Creek below the plant at Iron Mountain Mine (WHIS 0169) in June 1984.

Total silver concentrations were measured 97 times at 39 monitoring stations from 1977 through 1998. Of the 92 observations used in the criteria analysis (see EPA Water Quality Criteria Analysis for Station in the Interpretive Guide To Water Quality Results for explanation), 13 concentrations at the Richmond Portal at Iron Mountain Mine (WHIS 0187) exceeded the acute freshwater criterion of 4.1 µg/L during 1984. The highest concentration of 34.5 µg/L was reported in February 1984.

Total thallium concentrations were measured 57 times at 25 monitoring stations from 1983 through 1998. Twenty concentrations at three stations near Iron Mountain Mine, at the Richmond Portal (WHIS 0187) and in Boulder Creek (WHIS 0150, WHIS 0166), exceeded the drinking water criterion of 2 µg/L during 1983 and 1984. Eighteen of the 20 observations exceeding the criterion were reported at the Richmond Portal at Iron Mountain Mine (WHIS 0187) during 1983 and 1984, including the highest concentration of 270 µg/L in January 1984.

Zinc concentrations (including dissolved and total) were measured 2,921 times at 47 monitoring stations from 1952 through 1998. Of the 2,920 observations used in the criteria analysis (see Remark Code Screen in the Methodology for explanation), 2,795 concentrations at 28 stations equaled or exceeded the acute freshwater criterion of 120 µg/L from 1952 through 1994. One-thousand-eight-hundred-ninety-nine of these 2,795

concentrations also exceeded the drinking water criterion of 5,000 µg/L from 1970 through 1994. Approximately 98 percent of the observations exceeding the criteria were reported from six stations near the Spring Creek Reservoir (WHIS 0078, WHIS 0082, WHIS 0083, WHIS 0084, WHIS 0097, WHIS 0102) from 1970 through 1994. The highest concentration of 1,820,000 µg/L was reported at the Richmond Portal at Iron Mountain Mine (WHIS 0187) in February 1984.

The IDEA conducted for WHIS indicates that STORET data exist for all 13 Level I parameter groups in the study area. For the groups Flow, Clarity/Turbidity, and Sulfates/Total Dissolved Solids/Hardness, less than 25 percent of the observations were recorded since 1985. Overall, approximately 51 percent of the observations for Level I parameter groups were recorded since 1985. Data for only one group, Conductivity, were recorded at more than half of the 169 monitoring stations with data. Relative to other parameter groups, data were limited for the groups Alkalinity, Chlorophyll, and Bacteria. Results for 54 of the 126 EPA priority toxic pollutants (consisting of inorganic and organic parameters, metals, and pesticides) were retrieved from STORET.

Surface water resources in the WHIS study area include Whiskeytown and Spring Creek Reservoirs and other smaller impoundments; Clear, Spring, Whiskey, Willow, and numerous other perennial and intermittent creeks; Mexican, Sheep, and other springs; and a few small ponds. The data inventories and analyses contained in this report indicate that surface waters within the study area have been impacted by human activities. Potential natural sources of contaminants include erosion from seasonal precipitation. Potential anthropogenic sources of contaminants include mining activities; municipal wastewater discharges; timber harvesting; stormwater runoff; boating and other recreational activities; agricultural operations; and atmospheric deposition.

TABLE OF CONTENTS

EXECUTIVE SUMMARY v

TABLE OF CONTENTS xi

I. INTRODUCTION 1
- Goal 1
- Purpose 1
- Objectives 1
- Document Overview 2
- Caveats 2
- Key Personnel 3

II. METHODOLOGY 5
- Delineation of Park Study Area 5
- Data Sources 5
- Data Retrieval and Analysis Procedures 7
- Park Unit Databases 8
- Screening Methodologies and Procedures 9
  - STORET Edit Criteria 9
  - Date Screen 10
  - Station Type Screen 10
  - Phase 0 Parameter Screen 11
  - Phase 1 Parameter Screen 11
  - Media Type Screen 11
  - Remark Code Screen 11
  - Composite Type Screen 13
  - Phase 2 Parameter Screen 14
  - Observations/Period of Record Screen 15
- Statistical Definitions 17

III. INTERPRETIVE GUIDE TO WATER QUALITY RESULTS 19
- Overview 19
- Regional Location Map 19
- Water Quality Monitoring Locations Map(s) 19
- Dischargers, Drinking Intakes, Gages, and Impoundments Map(s) 20
- Industrial Facilities Discharges, Drinking Water Intakes, Water Gages, and Water Impoundments Table 20
- Representative Mean Annual Hydrograph for Seasonal Analysis 20
- Contacts for Agency Codes Retrieved 21
- Quantity of Data Retrieved by Agency Code 21
- Station Period of Record Tabulation 21
- Parameter Period of Record Tabulation 22
- Station/Parameter Period of Record Tabulation 22
- Station-By-Station Results 22
  - Station Inventory for Station 23
  - Parameter Inventory for Station 23
  - EPA Water Quality Criteria Analysis for Station 23
  - Time Series Plots for Station 24
  - Annual Analysis for Station 25
  - Annual Box-and-Whiskers Plots for Station 25

Seasonal Analysis for Station 25
Seasonal Box-and-Whiskers Plots for Station 26
EPA Water Quality Criteria Analysis for Entire Park Study Area 26
NPS Servicewide Inventory and Monitoring Program
"Level I" Water Quality Inventory Data Evaluation and Analysis (IDEA) 26
Water Quality Observations Outside STORET Edit Criteria for Park 28

IV. WATER QUALITY RESULTS 29
Overview 31
Regional Location Map 32
Water Quality Monitoring Locations Map(s) 33
Dischargers, Drinking Intakes, Gages, and Impoundments Map(s) 40
Industrial Facilities Discharges, Drinking Water Intakes, Water Gages,
and Water Impoundments Table 41
Representative Mean Annual Hydrograph for Seasonal Analysis 42
Contacts for Agency Codes Retrieved 43
Quantity of Data Retrieved by Agency Code 44
Station Period of Record Tabulation 45
Parameter Period of Record Tabulation 48
Station/Parameter Period of Record Tabulation 52
Station-By-Station Results 91
WHIS0001 Clear C Blw Placer Rd 93
WHIS0002 Clear Creek Near Igo 94
WHIS0003 Clear C Nr Igo CA 154
WHIS0004 Clear Creek at Igo Gage (Placer Bridge) 159
WHIS0005 Salt Creek at Buck Hollow 161
WHIS0006 Clear C A Need Camp 162
WHIS0007 Clear Creek Below N.E.E.D. Camp 163
WHIS0008 Clear Creek at Bridge Below N.E.E.D. Camp 165
WHIS0009 Clear Creek N.E.E.D. Camp Bridge 167
WHIS0010 Orofino Gulch; at Confluence of Road 177
WHIS0011 Paige Boulder Ck; Below Last Confl E of Cabin 178
WHIS0012 Paige Boulder Creek 180
WHIS0013 Paige Boulder Creek; at Peltier Confluence 185
WHIS0014 Clear C Ab Paige Bar 186
WHIS0015 Clear Creek Above Paige Bar 187
WHIS0016 Clear Creek Peltier Bridge 189
WHIS0017 Whiskeytown Lake at Whiskeytown Dam Outlet Works 194
WHIS0018 Clear Creek Water District Intake Below Dam 195
WHIS0019 Clear C A Whiskeytown Dam 196
WHIS0020 Brandy Ck; at Road Junction Above "Rockslides" 197
WHIS0021 West of Dam 199
WHIS0022 West Side of Dam 200
WHIS0023 Brandy Creek; at Sheep Camp Bridge 201
WHIS0024 Mid-Dam 203
WHIS0025 45-011 Centerville CSD -Whiskeytown Lake Intake 204
WHIS0026 45-011 Centerville CSD-Whiskeytown Lake Intake 205
WHIS0027 45-016 Clear Creek CSD-Whiskeytown Lake Intake 206
WHIS0028 45-016 Clear Creek CSD-Whiskeytown Lakeintake 208
WHIS0029 Whiskeytown Reservoir 210
WHIS0030 Whiskeytown Lake Intake (Reservoir) 241
WHIS0031 Whiskeytown Res at Dam 246
WHIS0032 Whiskeytown Reservoir Near the Main Dam 249
WHIS0033 Whiskeytown Reservoir Near the Dam 251

WHIS0034 East Side of Dam 253
WHIS0035 Clear Cr Above Whiskeytown Dam, Whiskeytown Lake 254
WHIS0036 East Beach; South Side 265
WHIS0037 East Beach; North Side 266
WHIS0038 Brandy Creek; at Main Powerline Overcrossing 267
WHIS0039 Below Park Headquarters 268
WHIS0040 South of Park Headquarters 269
WHIS0041 45-506 Headquarters (Whiskeytown Lake) 270
WHIS0042 Headquarters (Whiskeytown Lake) 272
WHIS0043 Background in Eastern Portion of Lake 275
WHIS0044 Brandy Creek 276
WHIS0045 Brandy Creek NW 1/4 SW 1/4 Sect. 20 T32N R6W 280
WHIS0046 Unnamed Gulch NE 1/4 SE 1/4 Sect. 20 T32N R6W 282
WHIS0047 Grass Valley C Nr French Gulch CA 284
WHIS0048 Brandy Creek; Approx. 50 Feet Above Lake 286
WHIS0049 Upstream of Spring Crk Pwr Intak Temp Cntrl Crtn 287
WHIS0050 Approx. 50 M Downstream of Spring Creek Curtains 288
WHIS0051 Downstrm of Spring Crk Pwr Intak Temp Cntrl Crtn 290
WHIS0052 Spring Creek Power Conduit Intake, Whiskeytown L 291
WHIS0053 Gaging Station 293
WHIS0054 Whiskeytown Lake Intake (Spring Creek Tunnel) 294
WHIS0055 Gaging Station Area 298
WHIS0056 Whiskeytown Res Nr Igo 299
WHIS0057 Brandy Creek Beach Area 300
WHIS0058 Raw Water at Brandy Creek 301
WHIS0059 Brandy Creek Area 303
WHIS0060 45-013 Shasta CSD -Whiskeytown Lake Intake 304
WHIS0061 45-013 Shasta CSD - Whiskeytown Lake Intake 306
WHIS0062 Approx. 50 M Upstream of Spring Creek Curtains 307
WHIS0063 45-505 Brandy Creek (Whiskeytown Lake) 309
WHIS0064 Brandy Creek East Swim Beach 311
WHIS0065 Approx. 6.0 Km Downstream of Oak Bottom Curtains 312
WHIS0066 299 East; West of Gaging Station 314
WHIS0067 Buckeye Water Treatment Plant - Spring Ck Tunnel 315
WHIS0068 Mouth of Brandy Creek Cove 317
WHIS0069 Brandy Creek Marina 318
WHIS0070 Brandy Creek Windsurfing Area 319
WHIS0071 299 East B/W Bridge and Visitors Info. Center 320
WHIS0072 Cove on North Shore Area 321
WHIS0073 Mid-Lake East of Brandy Creek Area 322
WHIS0074 Brandy Creek Spray Field 323
WHIS0075 Approx. 4.5 Km Downstream of Oak Bottom Curtains 326
WHIS0076 Clear Cr 2 Mi Above Whiskeytown D, Whiskeytown L 328
WHIS0077 Cove Next to Dry Creek Group Campground 342
WHIS0078 Spring Creek Mixture of Spill and Outlet Waters 343
WHIS0079 Background Near Brandy Creek 345
WHIS0080 Picnic Area on Southwest Shore 346
WHIS0081 Spring Cr Power Plant Tailrace 347
WHIS0082 Spring Creek at Spring Creek Debris Dam Outlet 349
WHIS0083 Spring Creek Debris Dam Reservoir Spill 366
WHIS0084 Spring Creek Debris Dam Reservoir Surface @ Dam 378
WHIS0085 Spring Cr Below Sf Spring Cr 397
WHIS0086 Dry Creek Springs 398
WHIS0087 45-508 Dry Creek Springs 399

WHIS0088 Mid-Channel Under Whiskey Creek Bridge 401
WHIS0089 Approx. 2.5 Km Downstream of Oak Bottom Curtains 402
WHIS0090 Crystal Cr at Crystal Cr Cons Cmp 404
WHIS0091 Background B/W Oak Bottom and Brandy Creek 405
WHIS0092 Unnamed Spring NE 1/4 NE 1/4 Sect. 15 T32N R6W 406
WHIS0093 Boulder Creek 408
WHIS0094 Mid-Lake Whiskey Creek 412
WHIS0095 Cove on Southwest Shore; South of Oak Bottom 413
WHIS0096 Background Near Oak Bottom 414
WHIS0097 Spring Ck Outflow From Spring Creek Debris Dam 415
WHIS0098 Sf Spring Ck at SCDD Nr Iron Mt Mine 417
WHIS0099 Spring Ck 100Ft Bl Confluence of SF in SCDD 418
WHIS0100 Narrow Cove on N. Shore; E. of Oak Bottom Marina 419
WHIS0101 North Shore West of Bridge 420
WHIS0102 Spring Ck Entering SCDD Nr Iron Mt Mine 421
WHIS0103 Whiskeytwn Lk. Dwnstr Oak Bottom Temp Cntrl Crtn 423
WHIS0104 Whiskeytwn Lk. Upstr Oak Bottom Temp Cntrl Curtn 424
WHIS0105 Approx. 50 M Downstream of Oak Bottom Curtains 425
WHIS0106 Red Gulch SE 1/4 NW 1/4 Sect. 9 T32N R6W 427
WHIS0107 Whiskey Creek Group Picnic Area 429
WHIS0108 Whiskey Creek Area 430
WHIS0109 Powerhouse 431
WHIS0110 45-503 Carr Memorial (Clear Creek Tunnel) 432
WHIS0111 Whiskeytown NRA-Carr Memorial 433
WHIS0112 Carr Powerhouse 435
WHIS0113 Judge Francis Carr Powerhouse Tail Water 437
WHIS0114 Carr Powerhouse 439
WHIS0115 Outlet to Powerhouse 440
WHIS0116 Carr Powerhouse Area 441
WHIS0117 Approx. 50 M Upstream of Oak Bottom Curtains 442
WHIS0118 Whiskeytown Lake at the Carr Powerplant Outlet 444
WHIS0119 Slickrock Ck at Elevation 1430 Ft 445
WHIS0120 45-507 Oak Bottom (Whiskeytown Lake) 447
WHIS0121 Point East of Oak Bottom Picnic Area 448
WHIS0122 Oak Bottom Beach 449
WHIS0123 Oak Bottom Area 450
WHIS0124 Carr Memorial (Clear Creek Tunnel) 451
WHIS0125 Whiskey Creek Boat Ramp Area 454
WHIS0126 Mitchells Water Intake 455
WHIS0127 Oak Bottom (Whiskeytown Lake) 457
WHIS0128 Slickrock Ck Bl Tributary Elevation 1570 Ft 459
WHIS0129 Oak Bottom Water Intake 461
WHIS0130 Oak Bottom Marina; East End Northernmost Pier 462
WHIS0131 Greenstone Spring NW1/4 NW1/4 Sect. 12 T32N R7W 463
WHIS0132 Oak Bottom Marina 465
WHIS0133 Rope Swing Area 466
WHIS0134 Highway Culvert Near Oak Bottom 467
WHIS0135 Mill Ck; 1/2 Mi South of Powerline Overcrossing 468
WHIS0136 Ganim Mine 469
WHIS0137 Oak Bottom Spray Tributary 470
WHIS0138 Clear Creek at Bridge to Powerhouse 473
WHIS0139 Power House Bridge 474
WHIS0140 Whiskey Creek 476
WHIS0141 Spring Ck Bl Slickrock Ck Nr Iron Mt Mine 478

WHIS0142 Slickrock Ck at Spring Ck Nr Iron Mt Mine 480
WHIS0143 Whiskey Creek 482
WHIS0144 Mill Creek; at Main Powerline Overcrossing 486
WHIS0145 Spring Ck Bl Boulder Ck Nr Iron Mt Mine 487
WHIS0146 Tributary to Slickrock Ck 489
WHIS0147 Slickrock Ck Ab Tributary at Elevation 1610 Ft 491
WHIS0148 Mill Creek 493
WHIS0149 Bickford Spring SW 1/4 NE 1/4 Sect. 3 T32N R7W 498
WHIS0150 Boulder Ck at Spring Ck Nr Iron Mt Mine 500
WHIS0151 Clear Creek Coggins Bridge 502
WHIS0152 Clear Creek Above Whiskeytown Reservoir 507
WHIS0153 Point Below Tower House 509
WHIS0154 Clear Cr Ab Whiskeytown Res 511
WHIS0155 North Star Mine 515
WHIS0156 Slickrock Ck at Elevation 1980 Ft 516
WHIS0157 Willow Creek at Mouth 518
WHIS0158 Willow Creek; Tower House Area 520
WHIS0159 Slickrock Ck Bl Concrete Foundation at Iron Mt 521
WHIS0160 Slickrock Ck at Elevation 2100 Ft 522
WHIS0161 Slickrock Ck at Elevation 2170 Ft 524
WHIS0162 Crystal Creek 526
WHIS0163 Spring Ck at Iron Road at Iron Mt Mine 531
WHIS0164 Spring Creek Near Minnesota 533
WHIS0165 Spring Creek Near Minnesota 534
WHIS0166 Boulder Ck Bl Plant at Iron Mt Mine 535
WHIS0167 Slickrock Ck Ab Plant at Iron Mt Mine 537
WHIS0168 Okosh Mine Portal at Iron Mt Mine 539
WHIS0169 Slickrock Ck Bl Plant at Iron Mt Mine 541
WHIS0170 Clear Creek French Gulch Housing 543
WHIS0171 Boulder Creek Ab Plant at Iron Mt Mine 548
WHIS0172 33N/7W-35N2 550
WHIS0173 Irrigation Ditch SE 1/4 SW 1/4 Sect. 34 T33N R7W 551
WHIS0174 33N/7W-35N1 553
WHIS0175 Willow Creek 554
WHIS0176 Slickrock Ck 100 Ft Downstream From Lower Lake 570
WHIS0177 Willow Creek; 1st Gulch West of Boundary 572
WHIS0178 Willow Creek; West Boundary 573
WHIS0179 Willow Creek; Saw Pit Junction Road Junction 574
WHIS0180 Spring Into Upper Lake at Iron Mt Mine 575
WHIS0181 Runoff From Tailnngs Nr Mill Site 576
WHIS0182 Willow Ck; Across From 1st Res W of Boundary 577
WHIS0183 33N/7W-35M1 578
WHIS0184 Boulder Ck 100 Ft Downstream From Seeps 579
WHIS0185 Boulder Ck Ab Lawson Portal Nr Iron Mt Mine 580
WHIS0186 Stream Nr Lawson Portal at Iron Mt Mine 581
WHIS0187 Richmond Portal at Iron Mt Mine 582
WHIS0188 Boulder Ck Ab Richmond at Iron Mt Mine 584
WHIS0189 Boulder Creek Bl Richmond By-Pass at Iron Mine 585
WHIS0190 Richmond Portal By-Pass at Iron Mt Mine 587
WHIS0191 Boulder Ck 100 Ft Down From Seep E of Hornet 588
WHIS0192 Boulder Creek Ab Iron Rd at Iron Mt Mine 589
WHIS0193 Upper Boulder Ck at Falls at Iron Mt Mine 590
WHIS0194 Clear C A French Gulch CA 591
WHIS0195 French Gulch Creek Near Mouth 601

WHIS0196 Spring Cr Ab Stowell Mine 603
WHIS0197 Clear Creek Above French Gulch Park 604
WHIS0198 Spring Creek Nr Mo of Stowell Mine 606
EPA Water Quality Criteria Analysis for Entire Park Study Area 607
NPS Servicewide Inventory and Monitoring Program
"Level I" Water Quality Inventory Data Evaluation and Analysis (IDEA) 610
Water Quality Observations Outside STORET Edit Criteria for Park 616

V. APPENDICES 667
A. Computer Files Transmitted With Park Baseline Water Quality Data Inventory and Analysis A-1
B. Water Quality Database File Structures B-1
Parameter Data File B-1
Water Quality Station Data File B-4
Industrial Facilities Discharges File B-6
Drinking Water Intakes File B-9
Water Gage File B-12
Water Impoundment File B-14
RF3 Structure File B-18
RF3 Trace File B-22
Catalog Unit Boundary File B-23
Encyclopedia File B-24
C. STORET Water Quality Control/Edit Checking C-1
D. STORET Administrative Parameters D-1
E. STORET Parameters Not Suitable for Statistical Analysis E-1
F. National EPA Water Quality Criteria Summary F-1
G. Inventory Data Evaluation and Analysis (IDEA) Servicewide Inventory and Monitoring Program "Level I" Parameter Groups G-1
H. Literature Cited H-1
I. Selected General Water Quality References I-1

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.

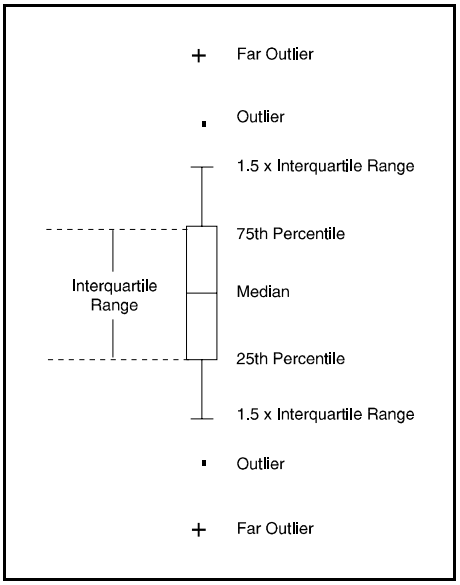
Table H. Definition of Descriptive Statistics Contained in Inventory, Annual, and Seasonal Tables

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 μeq/l H^+; and (3) μeq/l H^+. The reason for these conversions is that pH is actually the negative logarithm of the hydrogen ion concentration. To be technically correct in computing descriptive statistics, pH values must be converted to μeq/l H^+ (Kunkle and Wilson 1984). Once the descriptive statistics are computed using the pH values expressed as μeq/l H^+, the results can be converted back to pH. The three pH entries in the descriptive statistics table will all have the same STORET code.

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

EPA Water Quality Criteria Analysis for Station

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

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

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

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

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

Time Series Plots for Station

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

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

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

Annual Analysis for Station

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

Annual Box-and-Whiskers Plots for Station

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

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

Seasonal Analysis for Station

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

Seasonal Box-and-Whiskers Plots for Station

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

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

EPA Water Quality Criteria Analysis for Entire Park Study Area

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

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

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

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

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

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

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

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

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

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

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

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

Water Quality Observations Outside STORET Edit Criteria for Park

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

WATER QUALITY RESULTS

OVERVIEW FOR WHIS

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:	144864	42086
# STORET Stations:	198	141
# Stations With No Data:	29	13
# Stations With No Stat. Analysis:	2	2
# Longer Term Stations:	21	17
Date of STORET Retrieval:	10/05/99	10/05/99
Period of Record:	01/01/01-11/20/98	01/01/01-11/20/98
# Parameters Measured:	275	208
# Water Quality Observations:	71773	44550
# Industrial/Municipal Facilities:	0	0
# Drinking Water Intakes:	3	1
# Water Gages:	7	5
# Water Impoundments:	2	1
# Total Plots:	130	51
# Time Series:	56	23
# Annual:	17	6
# Seasonal:	57	22

Hydrologic Definition of Seasons:

1. June 1 - November 9
2. November 10 - February 20
3. February 21 - May 31

Time Series Plot Criteria:

To be included in the time series plots, a station/parameter combination must have at least 8 years and at least 32 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 8 years.

To be included in the annual analysis tables, a station/parameter combination must have at least 9 observations in each of at least 4 years.

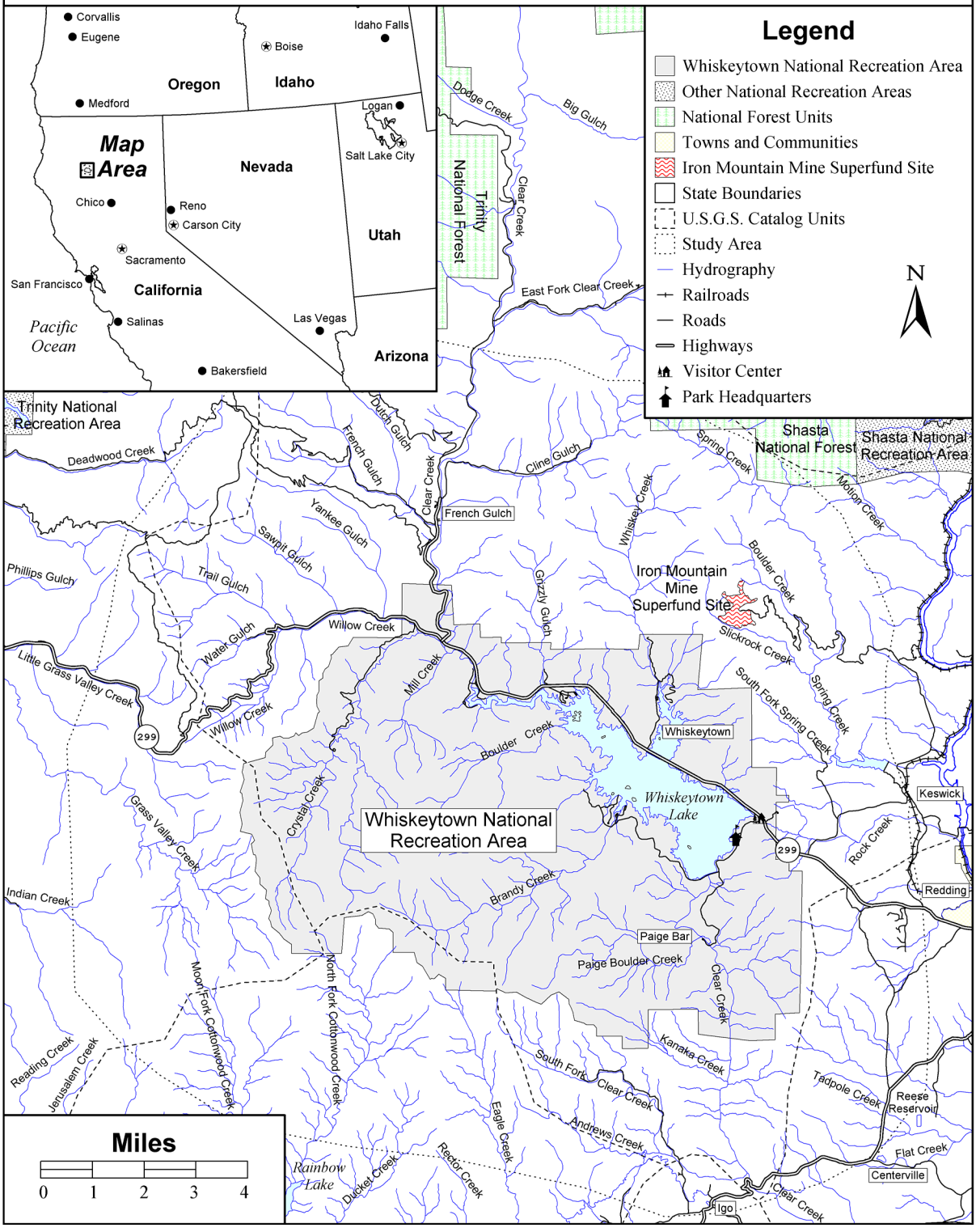
Seasonal Analysis Criteria:

To be included in the seasonal box-and-whisker plots, a station/parameter combination must have at least 9 observations in each of 2 seasons and a period of record of at least 8 years and observations in at least 3 of the 8 years.

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

Whiskeytown National Recreation Area

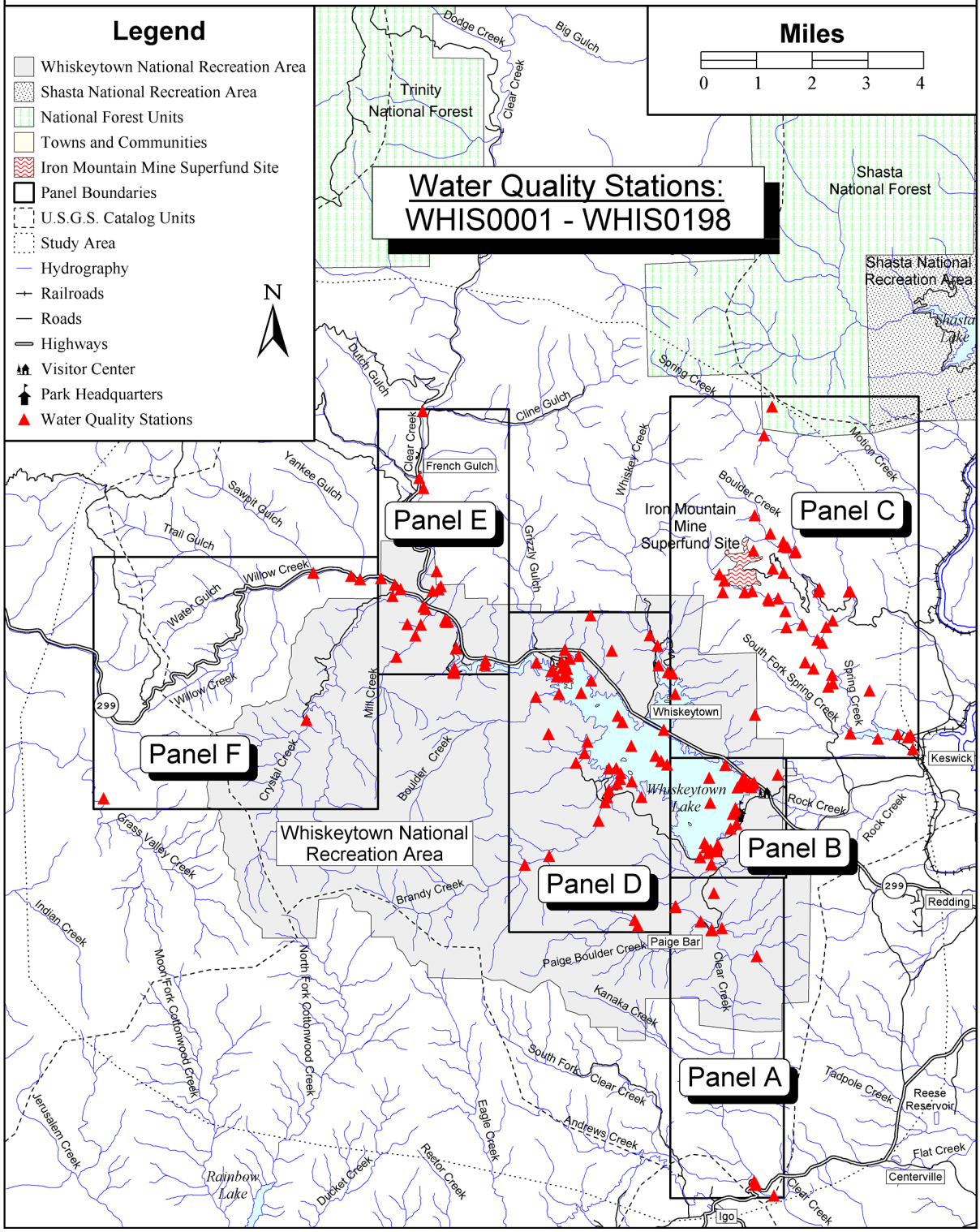
Regional Location Map



Whiskeytown National Recreation Area

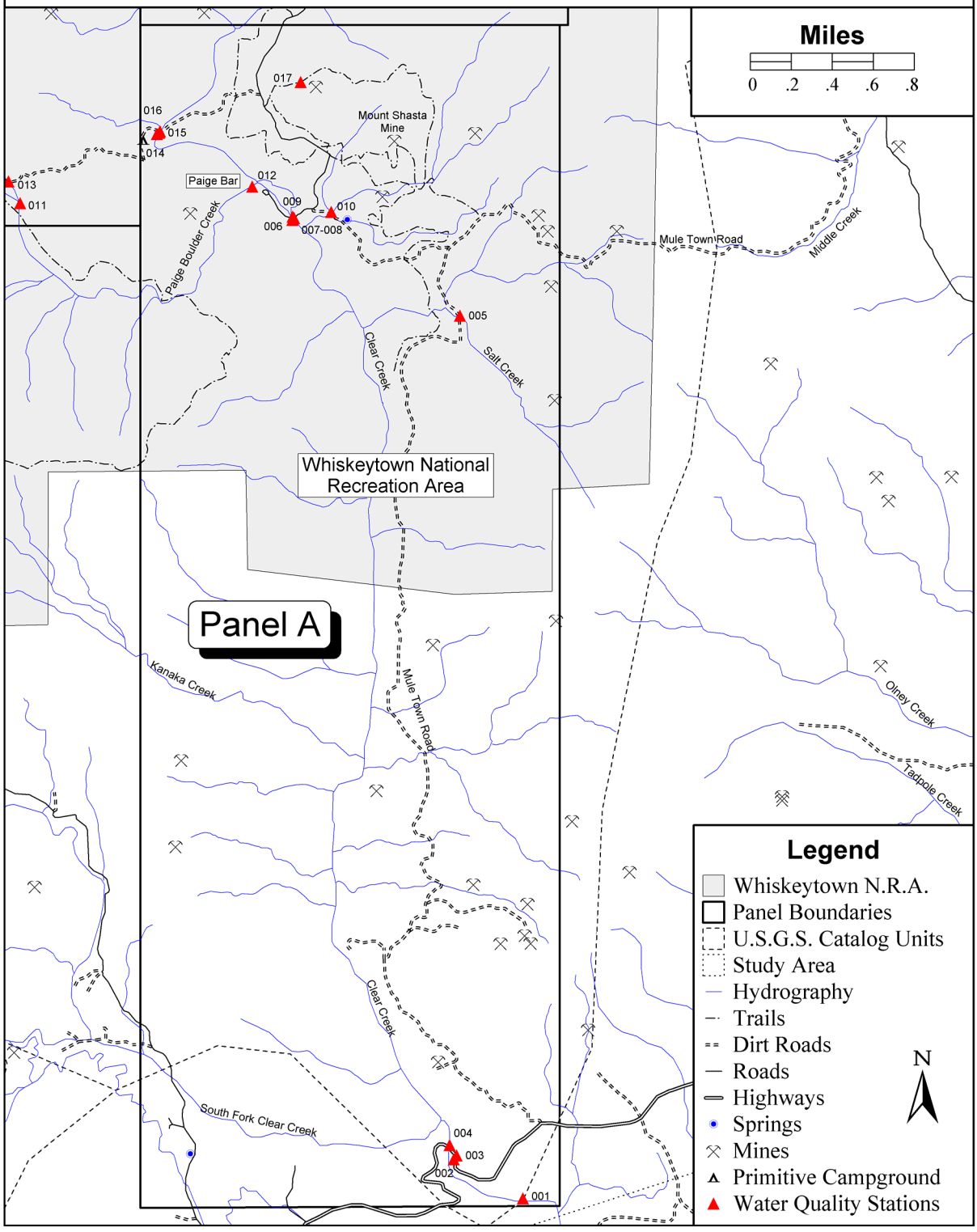
Water Quality Monitoring Locations

Graphic Panel Index



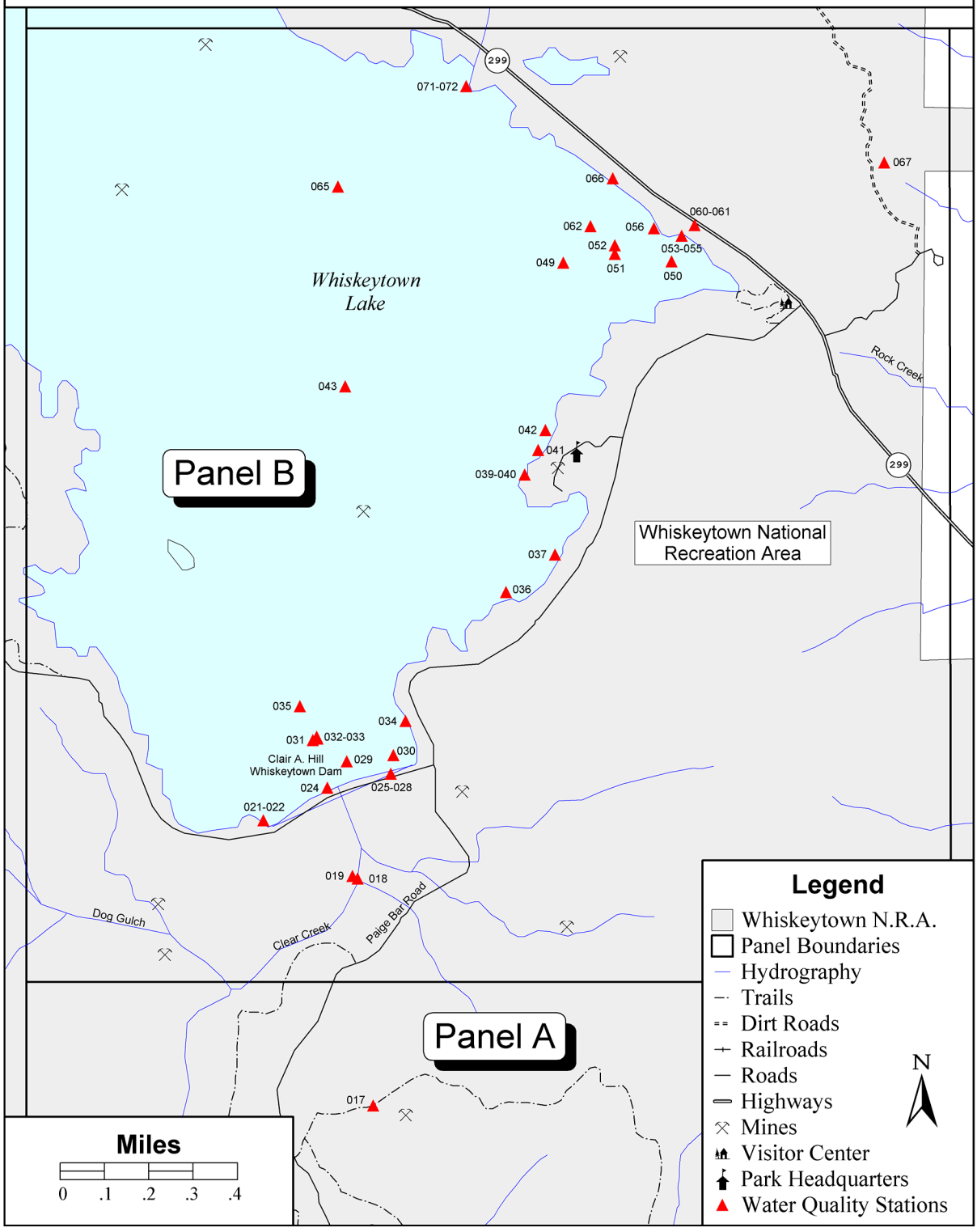
Whiskeytown National Recreation Area

Water Quality Monitoring Locations



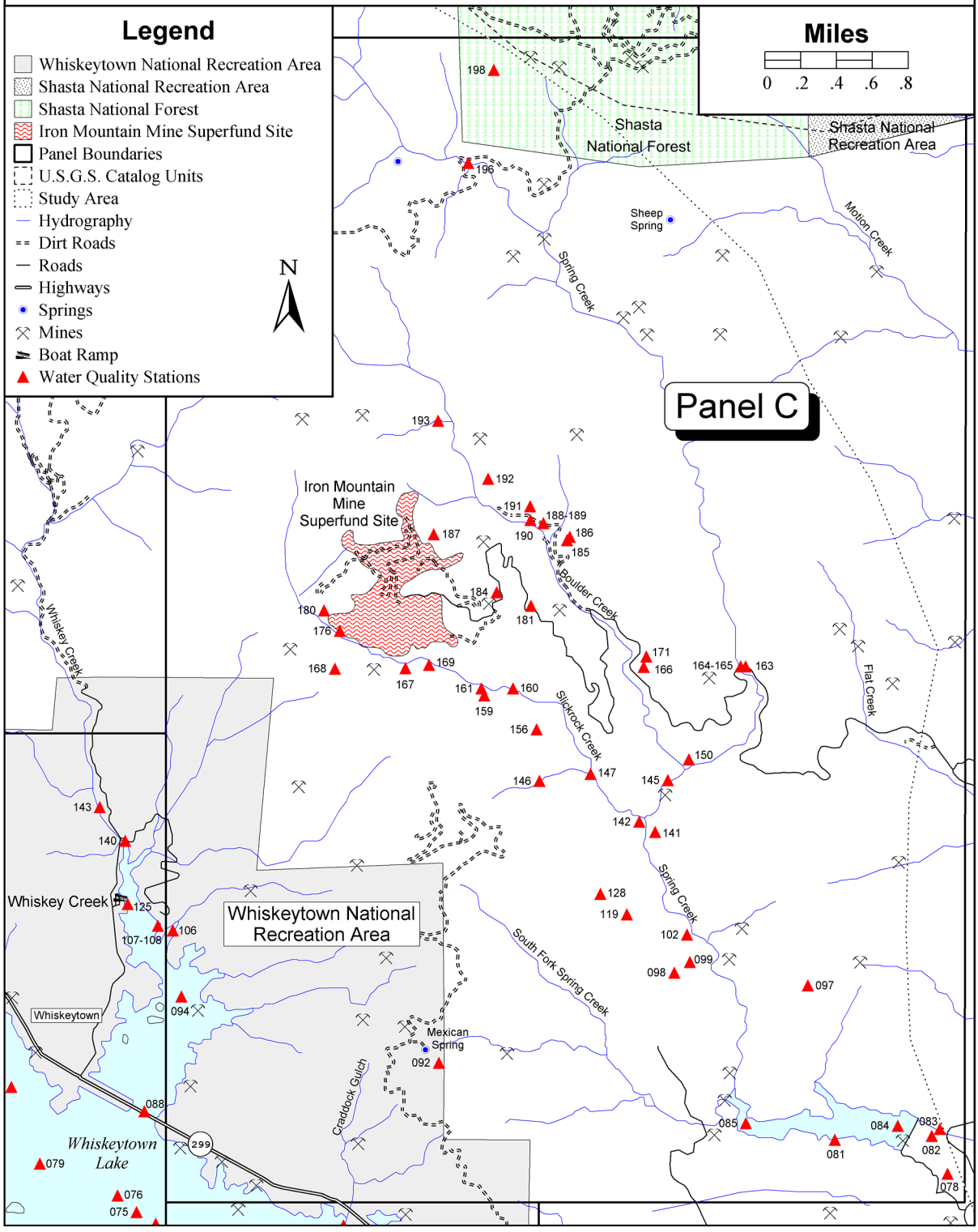
Whiskeytown National Recreation Area

Water Quality Monitoring Locations



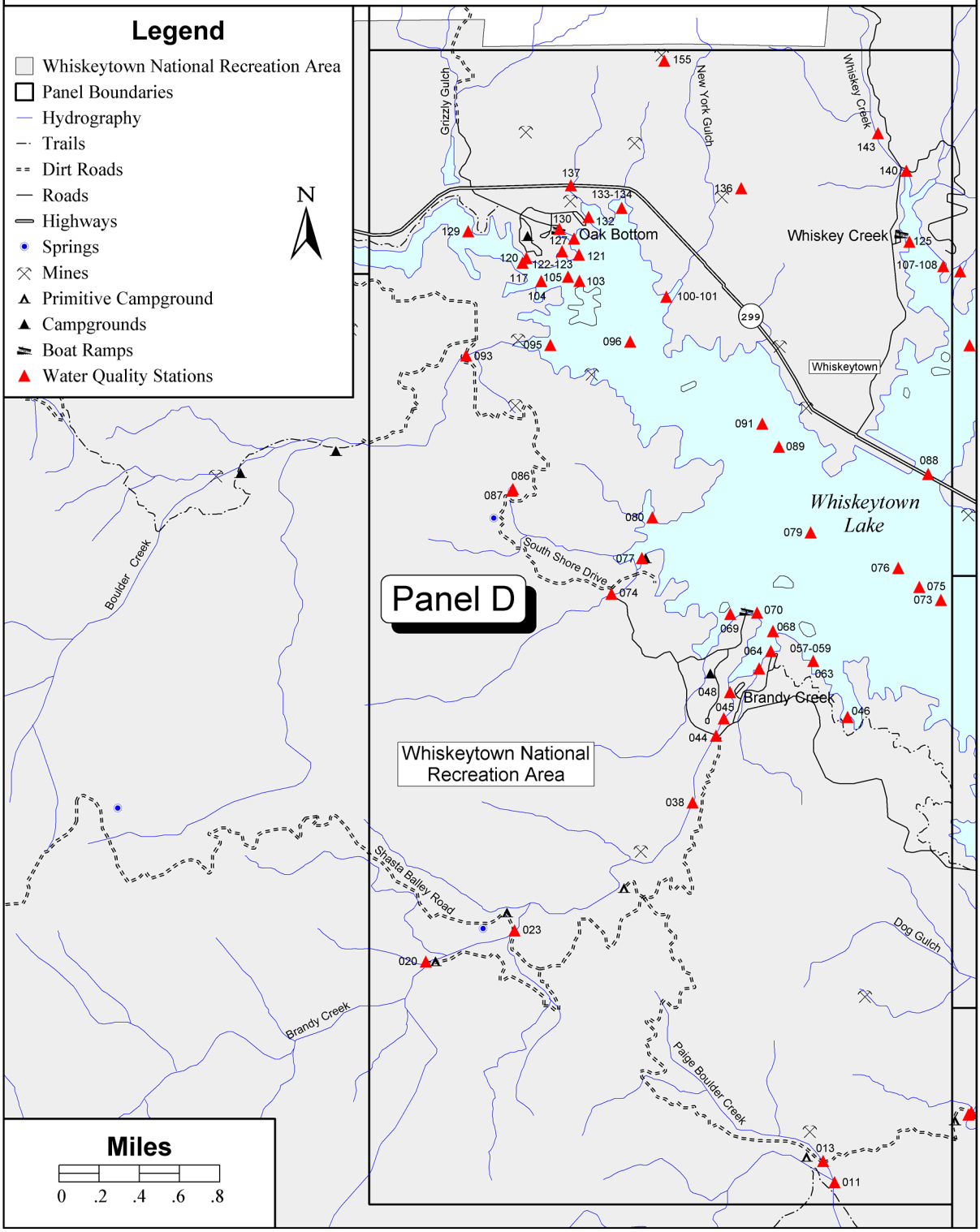
Whiskeytown National Recreation Area

Water Quality Monitoring Locations



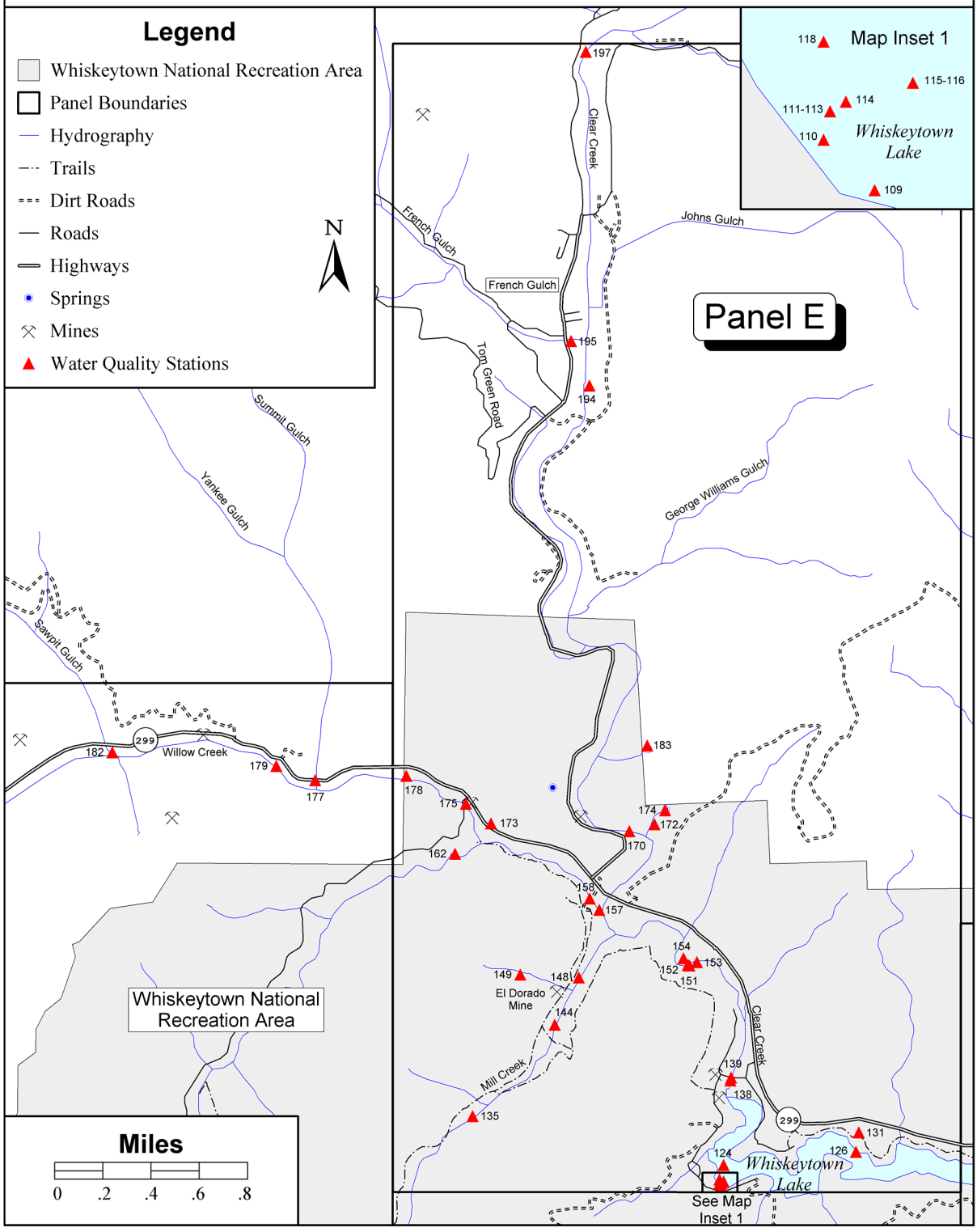
Whiskeytown National Recreation Area

Water Quality Monitoring Locations



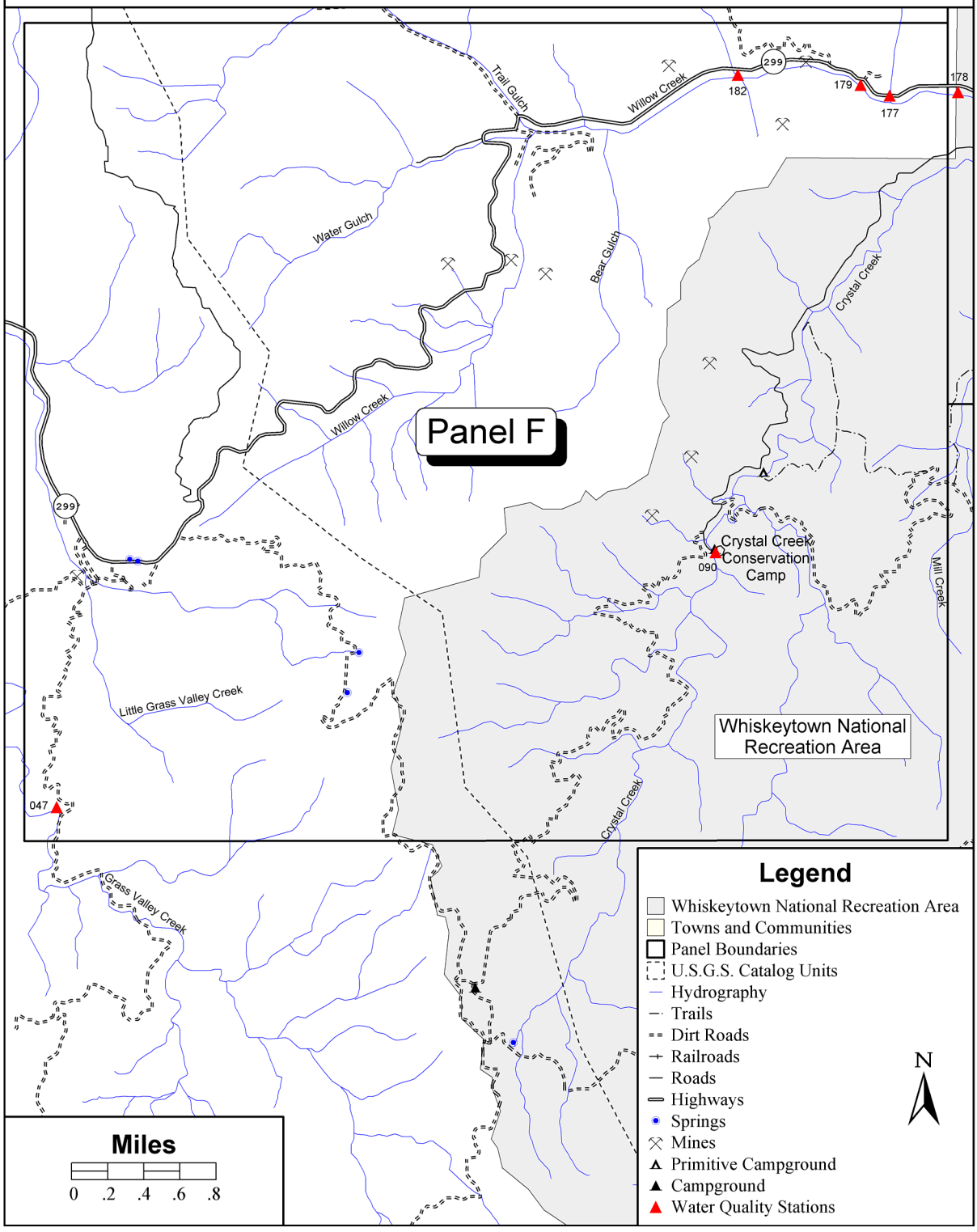
Whiskeytown National Recreation Area

Water Quality Monitoring Locations



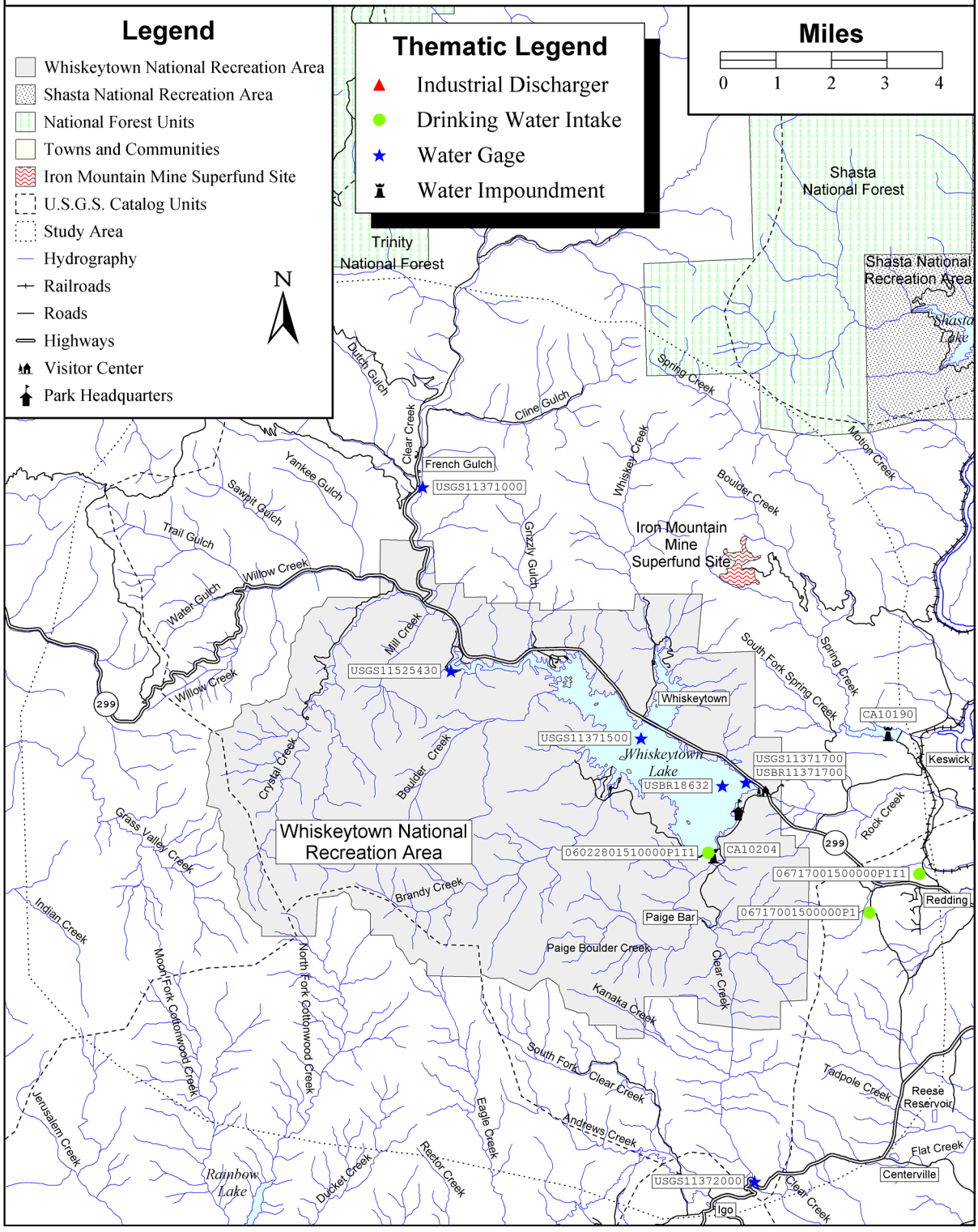
Whiskeytown National Recreation Area

Water Quality Monitoring Locations



Whiskeytown National Recreation Area

Dischargers, Drinking Intakes, Water Gages, & Water Impoundments



Industrial Facility Discharges, Drinking Water Intakes, Water Gages, and Water Impoundments Within the WHIS 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)
06022801510000P1I1	WHISKEYTOWN RES	ANDERSON	2800	0000.00
06717001500000P1	TREATMENT PLANT	SHASTA	1100	0000.00
06717001500000P1I1	WHISKEYTOWN RES	SHASTA	1100	0000.00

Water Gages

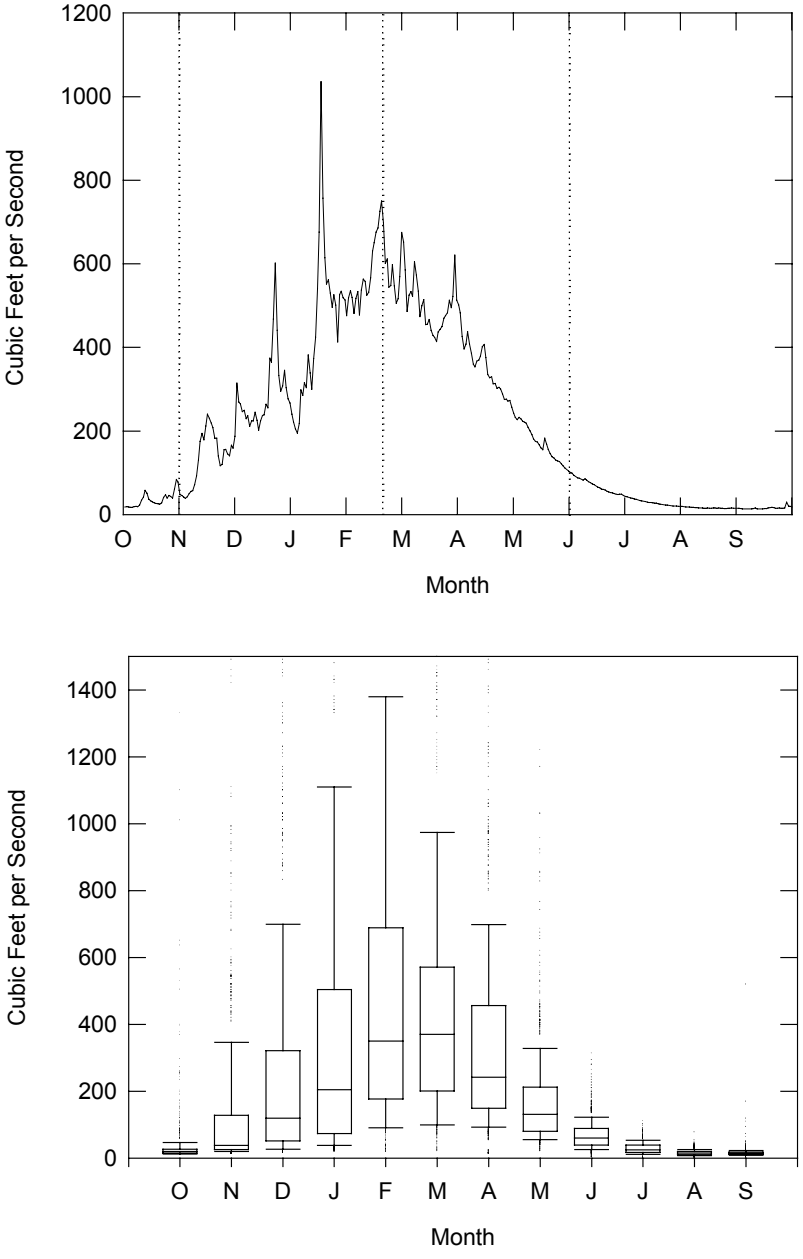
Site ID	Station Name	Site Type	Drainage Area (Square Miles)	Begin Year	End Year
USBR11371700	WHISKEY TOWN LK NR I	Lake	200.00		
USBR18632	WHISKEYTOWN LK CA	Lake			
USGS11371000	CLEAR C A FRENCH GULCH CA	Stream	115.00	1950	1993
USGS11371700	WHISKEYTOWN LAKE NR IGO CALIF	Stream	200.00		
USGS11372000	CLEAR C NR IGO CA	Stream	228.00	1940	1998
USGS11525430	JUDGE FRANCIS CARR PH NR FRENCH GULCH CA	Stream		1963	1998
USGS11371500	CLEAR C NR SHASTA CA	Stream	172.00	1911	1913

Water Impoundments

Site ID	Impoundment Name	Owner	Primary Purpose	Type of Dam	Downstream Hazard	Year Completed
CA10190	SPRING CREEK	DOI BR	Debris	Earth	High	1963
CA10204	WHISKEYTOWN	DOI BR	Irrig.	Earth	High	1963

REPRESENTATIVE MEAN ANNUAL HYDROGRAPH FOR SEASONAL ANALYSIS

WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA
Clear Creek at French Gulch, CA
11371000, 37 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 Whiskeytown-Shasta-Trinity National Recreation area are: Jun. 1 to Oct. 31, Nov. 1 to Feb. 19, and Feb. 20 to May 31.

CONTACTS FOR AGENCY CODES RETRIEVED FOR WHIS

AGENCY	PRIMARY CONTACT NAME	ORGANIZATION	PHONE NUMBER(S)	
21CAL-1	LOWELL, SUZANNE	CA WATER RES CONTROL BRD	(916)657-1830	
112WRD	BRIGGS, JOHN	US GEOLOGICAL SURVEY	(703)648-5624	
11NPSWRD	TUCKER, DEAN	NATIONAL PARK SERVICE	(970)225-3516	(970)225-3518
113BUREC	YOUNG, BOB	US BUR OF RECLAMATION	(916)978-5042	
21CAL-3	LOWELL, SUZANNE	CA WATER RES CONTROL BRD	(916)657-1830	
21CAL-3G	LOWELL, SUZANNE	CA WATER RES CONTROL BRD	(916)657-1830	
11TOX09	WILSON, ERIC	USEPA REGION 9 WTR-2	(415)744-1964	

QUANTITY OF DATA RETRIEVED FOR WHIS 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
21CAL-1	CA WATER RES CONTROL BRD	01/01/01-09/19/88	01/01/01-09/30/86	14	7	2	1	8	5	3448	675	60	38
112WRD	US GEOLOGICAL SURVEY	05/01/57-04/06/89	No Data in Park	3	0	3	0	0	0	3382	0	66	0
11NPSWRD	NATIONAL PARK SERVICE	11/14/62-11/20/98	11/14/62-11/20/98	121	114	16	16	0	0	32317	32087	197	197
113BUREC	US BUR OF RECLAMATION	01/01/01-03/31/94	01/24/72-10/18/91	14	9	0	0	6	6	29685	11259	17	8
21CAL-3	CA WATER RES CONTROL BRD	07/10/75-04/10/87	07/10/75-04/10/87	10	10	0	0	2	2	498	498	36	36
21CAL-3G	CA WATER RES CONTROL BRD	04/03/86-12/10/86	04/03/86-12/10/86	1	1	0	0	0	0	31	31	25	25
11TOX09	USEPA REGION 9 WTR-2	09/01/83-06/28/84	No Data in Park	35	0	0	0	13	0	2412	0	44	0
Totals		01/01/01-11/20/98	01/01/01-11/20/98	198	141	21	17	29	13	71773	44550	275	208

[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 11/20/98

Station Ident.	Location Description	In Park	Total Obs	01/01/85 to 11/20/98	01/01/75 to 12/31/84	Before 01/01/75
WHIS0001	CLEAR C BLW PLACER RD	No	0	0	0	0
WHIS0002[1]	CLEAR CREEK NEAR IGO	No	2751	124	762	1865
WHIS0003[1]	CLEAR C NR IGO CA	No	913	0	0	913
WHIS0004	CLEAR CREEK AT IGO GAGE (PLACER BRIDGE)	No	38	38	0	0
WHIS0005	SALT CREEK AT BUCK HOLLOW	Yes	7	0	7	0
WHIS0006	CLEAR C A NEED CAMP	Yes	0	0	0	0
WHIS0007	CLEAR CREEK BELOW N.E.E.D. CAMP	Yes	40	40	0	0
WHIS0008[1]	CLEAR CREEK AT BRIDGE BELOW N.E.E.D. CAMP	Yes	228	228	0	0
WHIS0009[1]	CLEAR CREEK N.E.E.D. CAMP BRIDGE	Yes	804	0	537	267
WHIS0010	OROFINO GULCH; AT CONFLUENCE OF ROAD	Yes	6	0	6	0
WHIS0011	PAIGE BOULDER CK; BELOW LAST CONFL E OF CABIN	Yes	12	0	12	0
WHIS0012[1]	PAIGE BOULDER CREEK	Yes	776	0	522	254
WHIS0013	PAIGE BOULDER CREEK; AT PELTIER CONFLUENCE	Yes	10	0	10	0
WHIS0014	CLEAR C AB PAIGE BAR	Yes	0	0	0	0
WHIS0015	CLEAR CREEK ABOVE PAIGE BAR	Yes	85	85	0	0
WHIS0016[1]	CLEAR CREEK PELTIER BRIDGE	Yes	803	0	494	309
WHIS0017	WHISKEYTOWN L. AT WHISKEYTOWN DAM OUTLET WORKS	Yes	0	0	0	0
WHIS0018	CLEAR CREEK WATER DISTRICT INTAKE BELOW DAM	Yes	2	2	0	0
WHIS0019	CLEAR C A WHISKEYTOWN DAM	Yes	0	0	0	0
WHIS0020	BRANDY CK; AT ROAD JUNCTION ABOVE "ROCKSLIDES"	Yes	11	0	11	0
WHIS0021	WEST OF DAM	Yes	15	15	0	0
WHIS0022	WEST SIDE OF DAM	Yes	12	0	12	0
WHIS0023	BRANDY CREEK; AT SHEEP CAMP BRIDGE	Yes	11	0	11	0
WHIS0024	MID-DAM	Yes	9	9	0	0
WHIS0025	45-011 CENTERVILLE CSD -WHISKEYTOWN LAKE INTAKE	Yes	1	0	1	0
WHIS0026	45-011 CENTERVILLE CSD-WHISKEYTOWN LAKE INTAKE	Yes	0	0	0	0
WHIS0027	45-016 CLEAR CREEK CSD-WHISKEYTOWN LAKE INTAKE	Yes	43	4	39	0
WHIS0028	45-016 CLEAR CREEK CSD-WHISKEYTOWN LAKEINTAKE	Yes	135	30	105	0
WHIS0029[1]	WHISKEYTOWN RESERVOIR	Yes	5769	4452	1269	48
WHIS0030	WHISKEYTOWN LAKE INTAKE (RESERVOIR)	Yes	288	288	0	0
WHIS0031	WHISKEYTOWN RES AT DAM	Yes	80	11	49	20
WHIS0032	WHISKEYTOWN RESERVOIR NEAR THE MAIN DAM	Yes	915	0	0	915
WHIS0033	WHISKEYTOWN RESERVOIR NEAR THE DAM	Yes	1469	1469	0	0
WHIS0034	EAST SIDE OF DAM	Yes	15	15	0	0
WHIS0035	CLEAR CR ABOVE WHISKEYTOWN DAM, WHISKEYTOWN L.	Yes	4538	1822	2716	0
WHIS0036	EAST BEACH; SOUTH SIDE	Yes	12	12	0	0
WHIS0037	EAST BEACH; NORTH SIDE	Yes	21	21	0	0
WHIS0038	BRANDY CREEK; AT MAIN POWERLINE OVERCROSSING	Yes	11	0	11	0
WHIS0039	BELOW PARK HEADQUARTERS	Yes	9	9	0	0
WHIS0040	SOUTH OF PARK HEADQUARTERS	Yes	12	0	12	0
WHIS0041	45-506 HEADQUARTERS (WHISKEYTOWN LAKE)	Yes	43	1	42	0
WHIS0042	HEADQUARTERS (WHISKEYTOWN LAKE)	Yes	99	62	37	0
WHIS0043	BACKGROUND IN EASTERN PORTION OF LAKE	Yes	9	9	0	0
WHIS0044[1]	BRANDY CREEK	Yes	879	0	532	347
WHIS0045	BRANDY CREEK NW 1/4 SW 1/4 SECT. 20 T32N R6W	Yes	19	0	0	19
WHIS0046	UNNAMED GULCH NE 1/4 SE 1/4 SECT. 20 T32N R6W	Yes	21	0	0	21
WHIS0047[1]	GRASS VALLEY C NR FRENCH GULCH CA	No	931	877	54	0
WHIS0048	BRANDY CREEK; APPROX. 50 FEET ABOVE LAKE	Yes	12	12	0	0
WHIS0049	UPSTREAM OF SPRING CRK PWR INTAK TEMP CNTRL CRTN	Yes	0	0	0	0
WHIS0050	APPROX. 50 M DOWNSTREAM OF SPRING CREEK CURTAINS	Yes	1788	1788	0	0
WHIS0051	DOWNSTRM OF SPRING CRK PWR INTAK TEMP CNTRL CRTN	Yes	0	0	0	0
WHIS0052	SPRING CREEK POWER CONDUIT INTAKE, WHISKEYTOWN L	Yes	659	659	0	0
WHIS0053	GAGING STATION	Yes	21	21	0	0
WHIS0054	WHISKEYTOWN LAKE INTAKE (SPRING CREEK TUNNEL)	Yes	118	118	0	0
WHIS0055	GAGING STATION AREA	Yes	6	0	6	0
WHIS0056	WHISKEYTOWN RES NR IGO	Yes	0	0	0	0
WHIS0057	BRANDY CREEK BEACH AREA	Yes	21	21	0	0
WHIS0058	RAW WATER AT BRANDY CREEK	Yes	33	0	33	0
WHIS0059	BRANDY CREEK AREA	Yes	12	0	12	0
WHIS0060	45-013 SHASTA CSD -WHISKEYTOWN LAKE INTAKE	Yes	133	20	113	0
WHIS0061	45-013 SHASTA CSD - WHISKEYTOWN LAKE INTAKE	Yes	0	0	0	0
WHIS0062	APPROX. 50 M UPSTREAM OF SPRING CREEK CURTAINS	Yes	2576	2576	0	0
WHIS0063	45-505 BRANDY CREEK (WHISKEYTOWN LAKE)	Yes	86	24	62	0
WHIS0064	BRANDY CREEK EAST SWIM BEACH	Yes	18	18	0	0
WHIS0065	APPROX. 6.0 KM DOWNSTREAM OF OAK BOTTOM CURTAINS	Yes	1415	1415	0	0
WHIS0066	299 EAST; WEST OF GAGING STATION	Yes	9	9	0	0
WHIS0067	BUCKEYE WATER TREATMENT PLANT - SPRING CK TUNNEL	Yes	115	115	0	0
WHIS0068	MOUTH OF BRANDY CREEK COVE	Yes	6	6	0	0
WHIS0069	BRANDY CREEK MARINA	Yes	15	15	0	0
WHIS0070	BRANDY CREEK WINDSURFING AREA	Yes	12	12	0	0
WHIS0071	299 EAST B/W BRIDGE AND VISITORS INFO. CENTER	Yes	15	15	0	0

Station Period of Record Tabulation
From 01/01/01 To 11/20/98

Station Ident.	Location Description	In Park	Total Obs	01/01/85 to 11/20/98	01/01/75 to 12/31/84	Before 01/01/75
WHIS0072	COVE ON NORTH SHORE AREA	Yes	11	0	11	0
WHIS0073	MID-LAKE EAST OF BRANDY CREEK AREA	Yes	15	15	0	0
WHIS0074[1]	BRANDY CREEK SPRAY FIELD	Yes	448	0	241	207
WHIS0075	APPROX. 4.5 KM DOWNSTREAM OF OAK BOTTOM CURTAINS	Yes	1890	1890	0	0
WHIS0076	CLEAR CR 2 MI ABOVE WHISKEYTOWN D, WHISKEYTOWN L	Yes	6062	1830	2960	1272
WHIS0077	COVE NEXT TO DRY CREEK GROUP CAMPGROUND	Yes	6	6	0	0
WHIS0078	SPRING CREEK MIXTURE OF SPILL AND OUTLET WATERS	No	540	540	0	0
WHIS0079	BACKGROUND NEAR BRANDY CREEK	Yes	9	9	0	0
WHIS0080	PICNIC AREA ON SOUTHWEST SHORE	Yes	6	6	0	0
WHIS0081	SPRING CR POWER PLANT TAILRACE	No	175	0	111	64
WHIS0082	SPRING CREEK AT SPRING CREEK DEBRIS DAM OUTLET	No	10117	3623	3405	3089
WHIS0083	SPRING CREEK DEBRIS DAM RESERVOIR SPILL	No	979	905	74	0
WHIS0084	SPRING CREEK DEBRIS DAM RESERVOIR SURFACE @ DAM	No	6615	2648	2250	1717
WHIS0085	SPRING CR BELOW SF SPRING CR	No	0	0	0	0
WHIS0086	DRY CREEK SPRINGS	Yes	3	3	0	0
WHIS0087	45-508 DRY CREEK SPRINGS	Yes	31	31	0	0
WHIS0088	MID-CHANNEL UNDER WHISKEY CREEK BRIDGE	Yes	15	15	0	0
WHIS0089	APPROX. 2.5 KM DOWNSTREAM OF OAK BOTTOM CURTAINS	Yes	1185	1185	0	0
WHIS0090	CRYSTAL CR AT CRYSTAL CR CONS CMP	Yes	0	0	0	0
WHIS0091	BACKGROUND B/W OAK BOTTOM AND BRANDY CREEK	Yes	15	15	0	0
WHIS0092	UNNAMED SPRING NE 1/4 NE 1/4 SECT. 15 T32N R6W	Yes	19	0	0	19
WHIS0093[1]	BOULDER CREEK	Yes	848	0	513	335
WHIS0094	MID-LAKE WHISKEY CREEK	Yes	21	21	0	0
WHIS0095	COVE ON SOUTHWEST SHORE; SOUTH OF OAK BOTTOM	Yes	6	6	0	0
WHIS0096	BACKGROUND NEAR OAK BOTTOM	Yes	9	9	0	0
WHIS0097	SPRING CK OUTFLOW FROM SPRING CREEK DEBRIS DAM	No	234	0	234	0
WHIS0098	SF SPRING CK AT SCDD NR IRON MT MINE	No	0	0	0	0
WHIS0099	SPRING CK 100FT BL CONFLUENCE OF SF IN SCDD	No	0	0	0	0
WHIS0100	NARROW COVE ON N. SHORE; E. OF OAK BOTTOM MARINA	Yes	6	6	0	0
WHIS0101	NORTH SHORE WEST OF BRIDGE	Yes	3	0	3	0
WHIS0102	SPRING CK ENTERING SCDD NR IRON MT MINE	No	356	0	356	0
WHIS0103	WHISKEYTWN L. DWNSTR OAK BOTTOM TEMP CNTRL CRTN	Yes	0	0	0	0
WHIS0104	WHISKEYTWN L. UPSTR OAK BOTTOM TEMP CNTRL CURTN	Yes	0	0	0	0
WHIS0105	APPROX. 50 M DOWNSTREAM OF OAK BOTTOM CURTAINS	Yes	1779	1779	0	0
WHIS0106	RED GULCH SE 1/4 NW 1/4 SECT. 9 T32N R6W	Yes	21	0	0	21
WHIS0107	WHISKEY CREEK GROUP PICNIC AREA	Yes	21	21	0	0
WHIS0108	WHISKEY CREEK AREA	Yes	12	0	12	0
WHIS0109[1]	POWERHOUSE	Yes	240	0	240	0
WHIS0110	45-503 CARR MEMORIAL (CLEAR CREEK TUNNEL)	Yes	20	1	19	0
WHIS0111	WHISKEYTOWN NRA-CARR MEMORIAL	Yes	33	0	33	0
WHIS0112	CARR POWERHOUSE	Yes	19	0	19	0
WHIS0113	JUDGE FRANCIS CARR POWERHOUSE TAIL WATER	Yes	64	64	0	0
WHIS0114	CARR POWERHOUSE	Yes	58	58	0	0
WHIS0115	OUTLET TO POWERHOUSE	Yes	6	6	0	0
WHIS0116	CARR POWERHOUSE AREA	Yes	6	0	6	0
WHIS0117	APPROX. 50 M UPSTREAM OF OAK BOTTOM CURTAINS	Yes	1165	1165	0	0
WHIS0118	WHISKEYTOWN LAKE AT THE CARR POWERPLANT OUTLET	Yes	0	0	0	0
WHIS0119	SLICKROCK CK AT ELEVATION 1430 FT	No	35	0	35	0
WHIS0120	45-507 OAK BOTTOM (WHISKEYTOWN LAKE)	Yes	37	1	36	0
WHIS0121	POINT EAST OF OAK BOTTOM PICNIC AREA	Yes	6	6	0	0
WHIS0122	OAK BOTTOM BEACH	Yes	33	33	0	0
WHIS0123	OAK BOTTOM AREA	Yes	12	0	12	0
WHIS0124	CARR MEMORIAL (CLEAR CREEK TUNNEL)	Yes	68	31	37	0
WHIS0125	WHISKEY CREEK BOAT RAMP AREA	Yes	3	0	3	0
WHIS0126	MITCHELLS WATER INTAKE	Yes	10	0	10	0
WHIS0127	OAK BOTTOM (WHISKEYTOWN LAKE)	Yes	91	91	0	0
WHIS0128	SLICKROCK CK BL TRIBUTARY ELEVATION 1570 FT	No	35	0	35	0
WHIS0129	OAK BOTTOM WATER INTAKE	Yes	21	21	0	0
WHIS0130	OAK BOTTOM MARINA; EAST END NORTHERNMOST PIER	Yes	16	16	0	0
WHIS0131	GREENSTONE SPRING NW1/4 NW1/4 SECT. 12 T32N R7W	Yes	19	0	0	19
WHIS0132	OAK BOTTOM MARINA	Yes	12	12	0	0
WHIS0133	ROPE SWING AREA	Yes	18	18	0	0
WHIS0134	HIGHWAY CULVERT NEAR OAK BOTTOM	Yes	6	0	6	0
WHIS0135	MILL CK; 1/2 MI SOUTH OF POWERLINE OVERCROSSING	Yes	10	0	10	0
WHIS0136	GANIM MINE	Yes	6	6	0	0
WHIS0137[1]	OAK BOTTOM SPRAY TRIBUTARY	Yes	294	0	111	183
WHIS0138	CLEAR CREEK AT BRIDGE TO POWERHOUSE	Yes	56	56	0	0
WHIS0139	POWER HOUSE BRIDGE	Yes	10	0	10	0
WHIS0140	WHISKEY CREEK	Yes	11	0	11	0
WHIS0141	SPRING CK BL SLICKROCK CK NR IRON MT MINE	No	37	0	37	0
WHIS0142	SLICKROCK CK AT SPRING CK NR IRON MT MINE	No	132	0	132	0

Station Period of Record Tabulation
From 01/01/01 To 11/20/98

Station Ident.	Location Description	In Park	Total Obs	01/01/85 to 11/20/98	01/01/75 to 12/31/84	Before 01/01/75
WHIS0143[1]	WHISKEY CREEK	Yes	367	0	367	0
WHIS0144	MILL CREEK; AT MAIN POWERLINE OVERCROSSING	Yes	10	0	10	0
WHIS0145	SPRING CK BL BOULDER CK NR IRON MT MINE	No	60	0	60	0
WHIS0146	TRIBUTARY TO SLICKROCK CK	No	32	0	32	0
WHIS0147	SLICKROCK CK AB TRIBUTARY AT ELEVATION 1610 FT	No	36	0	36	0
WHIS0148[1]	MILL CREEK	Yes	878	0	538	340
WHIS0149	BICKFORD SPRING SW 1/4 NE 1/4 SECT. 3 T32N R7W	Yes	21	0	0	21
WHIS0150	BOULDER CK AT SPRING CK NR IRON MT MINE	No	36	0	36	0
WHIS0151[1]	CLEAR CREEK COGGINS BRIDGE	Yes	737	0	485	252
WHIS0152	CLEAR CREEK ABOVE WHISKEYTOWN RESERVOIR	Yes	88	88	0	0
WHIS0153	POINT BELOW TOWER HOUSE	Yes	10	0	10	0
WHIS0154[1]	CLEAR CR AB WHISKEYTOWN RES	Yes	595	0	583	12
WHIS0155	NORTH STAR MINE	Yes	6	6	0	0
WHIS0156	SLICKROCK CK AT ELEVATION 1980 FT	No	35	0	35	0
WHIS0157	WILLOW CREEK AT MOUTH	Yes	84	84	0	0
WHIS0158	WILLOW CREEK; TOWER HOUSE AREA	Yes	10	0	10	0
WHIS0159	SLICKROCK CK BL CONCRETE FOUNDATION AT IRON MT	No	0	0	0	0
WHIS0160	SLICKROCK CK AT ELEVATION 2100 FT	No	36	0	36	0
WHIS0161	SLICKROCK CK AT ELEVATION 2170 FT	No	35	0	35	0
WHIS0162[1]	CRYSTAL CREEK	Yes	880	0	546	334
WHIS0163	SPRING CK AT IRON ROAD AT IRON MT MINE	No	376	0	376	0
WHIS0164	SPRING CREEK NEAR MINNESOTA	No	12	0	0	12
WHIS0165	SPRING CREEK NEAR MINNESOTA	No	4	0	0	4
WHIS0166	BOULDER CK BL PLANT AT IRON MT MINE	No	36	0	36	0
WHIS0167	SLICKROCK CK AB PLANT AT IRON MT MINE	No	35	0	35	0
WHIS0168	OKOSH MINE PORTAL AT IRON MT MINE	No	33	0	33	0
WHIS0169	SLICKROCK CK BL PLANT AT IRON MT MINE	No	72	0	72	0
WHIS0170[1]	CLEAR CREEK FRENCH GULCH HOUSING	Yes	838	0	507	331
WHIS0171	BOULDER CREEK AB PLANT AT IRON MT MINE	No	34	0	34	0
WHIS0172	33N/7W-35N2	Yes	2	0	2	0
WHIS0173	IRRIGATION DITCH SE 1/4 SW 1/4 SECT. 34 T33N R7W	Yes	21	0	0	21
WHIS0174	33N/7W-35N1	Yes	8	0	8	0
WHIS0175[1]	WILLOW CREEK	Yes	907	0	567	340
WHIS0176	SLICKROCK CK 100 FT DOWNSTREAM FROM LOWER LAKE	No	34	0	34	0
WHIS0177	WILLOW CREEK; 1ST GULCH WEST OF BOUNDARY	No	2	0	2	0
WHIS0178	WILLOW CREEK; WEST BOUNDARY	Yes	8	0	8	0
WHIS0179	WILLOW CREEK; SAW PIT JUNCTION ROAD JUNCTION	No	10	0	10	0
WHIS0180	SPRING INTO UPPER LAKE AT IRON MT MINE	No	0	0	0	0
WHIS0181	RUNOFF FROM TAILNNGS NR MILL SITE	No	0	0	0	0
WHIS0182	WILLOW CK; ACROSS FROM 1ST RES W OF BOUNDARY	No	10	0	10	0
WHIS0183	33N/7W-35M1	No	4	0	4	0
WHIS0184	BOULDER CK 100 FT DOWNSTREAM FROM SEEPS	No	0	0	0	0
WHIS0185	BOULDER CK AB LAWSON PORTAL NR IRON MT MINE	No	0	0	0	0
WHIS0186	STREAM NR LAWSON PORTAL AT IRON MT MINE	No	0	0	0	0
WHIS0187	RICHMOND PORTAL AT IRON MT MINE	No	668	0	668	0
WHIS0188	BOULDER CK AB RICHMOND AT IRON MT MINE	No	0	0	0	0
WHIS0189	BOULDER CREEK BL RICHMOND BY-PASS AT IRON MINE	No	25	0	25	0
WHIS0190	RICHMOND PORTAL BY-PASS AT IRON MT MINE	No	0	0	0	0
WHIS0191	BOULDER CK 100 FT DOWN FROM SEEP E OF HORNET	No	0	0	0	0
WHIS0192	BOULDER CREEK AB IRON RD AT IRON MT MINE	No	0	0	0	0
WHIS0193	UPPER BOULDER CK AT FALLS AT IRON MT MINE	No	0	0	0	0
WHIS0194[1]	CLEAR C A FRENCH GULCH CA	No	1538	0	0	1538
WHIS0195	FRENCH GULCH CREEK NEAR MOUTH	No	80	80	0	0
WHIS0196	SPRING CR AB STOWELL MINE	No	0	0	0	0
WHIS0197	CLEAR CREEK ABOVE FRENCH GULCH PARK	No	86	86	0	0
WHIS0198	SPRING CREEK NR MO OF STOWELL MINE	No	6	0	0	6

[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 11/20/98

Parameter Code	Name	Total Obs	01/01/85 to 11/20/98	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
00004	STREAM WIDTH (FEET)	7	7	0	0	1	0
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	6586	3358	2512	716	70	42
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	1756	856	139	761	18	14
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	1085	53	670	362	27	27
00021	TEMPERATURE, AIR (DEGREES FAHRENHEIT)	17	10	0	7	2	2
00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	417	101	176	140	11	6
00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	125	95	30	0	9	8
00032	CLOUD COVER (PERCENT)	18	0	18	0	16	16
00035	WIND VELOCITY (MILES PER HOUR)	24	0	18	6	17	17
00036	WIND DIRECTION IN DEGREES FROM TRUE N (CLOCKWISE)	8	0	8	0	7	7
00042	ALTITUDE IN FEET ABOVE MEAN SEA LEVEL	4	0	0	4	4	2
00045	PRECIPITATION, TOTAL (INCHES PER DAY)	18	0	18	0	16	16
00058	FLOW, RATE GALLONS/MIN	93	0	93	0	25	2
00060	FLOW, STREAM, MEAN DAILY CFS	371	0	9	362	7	0
00061	FLOW, STREAM, INSTANTANEOUS CFS	2848	819	885	1144	29	25
00062	ELEVATION, RESERVOIR SURFACE WATER IN FEET	5029	1744	2109	1176	6	4
00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION	44	41	3	0	1	0
00065	STAGE, STREAM (FEET)	156	7	18	131	1	0
00070	TURBIDITY, (JACKSON CANDLE UNITS)	1073	0	680	393	19	19
00075	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	106	0	0	106	3	2
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	159	9	144	6	3	2
00078	TRANSPARENCY, SECCHI DISC (METERS)	92	88	4	0	9	9
00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	15	2	13	0	7	7
00086	ODOR (THRESHOLD NUMBER AT 60 DEG C)	15	2	13	0	7	7
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	2708	1549	828	331	43	39
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	624	350	132	142	59	32
00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	14250	6298	4527	3425	168	127
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	3149	2859	282	8	16	13
00300	OXYGEN, DISSOLVED MG/L	1336	7	811	518	26	25
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	2086	2086	0	0	8	8
00310	BOD, 5 DAY, 20 DEG C MG/L	3	3	0	0	1	0
00335	COD, .025N K2CR2O7 MG/L	7	7	0	0	1	1
00340	COD, .25N K2CR2O7 MG/L	2	2	0	0	2	2
00400	PH (STANDARD UNITS)	511	13	266	232	35	18
00402	SPECIFIC CONDUCTANCE,NON-TEMPERATURE CORR.UMHOS/CM	3	0	3	0	2	1
00403	PH, LAB, STANDARD UNITS SU	2319	1474	780	65	26	18
00406	PH, FIELD, STANDARD UNITS SU	1803	1691	104	8	18	15
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	282	194	42	46	23	18
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	5	0	5	0	2	2
00420	ALKALINITY, HYDROXIDE (MG/L AS CACO3)	2	0	2	0	2	2
00425	ALKALINITY, BICARBONATE (MG/L AS CACO3)	9	1	8	0	4	4
00430	ALKALINITY, CARBONATE (MG/L AS CACO3)	3	0	3	0	3	3
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	63	42	21	0	1	1
00440	BICARBONATE ION (MG/L AS HCO3)	117	17	22	78	22	21
00445	CARBONATE ION (MG/L AS CO3)	67	16	21	30	22	21
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	6	1	5	0	2	2
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	106	14	92	0	24	2
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	53	42	11	0	8	6
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	11	7	4	0	3	2
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	1	1	0	0	1	1
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	17	1	15	1	3	2
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	1041	3	679	359	21	21
00629	NITROGEN, ORGANIC KJELDAHL, TOTAL (MG/L AS N)	7	0	7	0	3	2
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	6	6	0	0	1	1
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	403	394	9	0	14	12
00635	NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	46	23	22	1	4	3
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	353	0	242	111	17	17
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	530	6	241	283	18	18
00665	PHOSPHORUS, TOTAL (MG/L AS P)	421	400	20	1	16	13
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	381	356	6	19	7	6
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	9	1	8	0	4	3
00745	SULFIDE, TOTAL (MG/L AS S)	6	0	6	0	1	0
00900	HARDNESS, TOTAL (MG/L AS CACO3)	1278	56	720	502	54	50
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	78	0	0	78	8	7
00915	CALCIUM, DISSOLVED (MG/L AS CA)	108	37	13	58	22	18
00916	CALCIUM, TOTAL (MG/L AS CA)	45	24	21	0	14	14
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	109	38	13	58	22	18
00927	MAGNESIUM, TOTAL (MG/L AS MG)	88	23	65	0	35	14
00929	SODIUM, TOTAL (MG/L AS NA)	82	17	65	0	34	13
00930	SODIUM, DISSOLVED (MG/L AS NA)	193	37	20	136	21	17
00931	SODIUM ADSORPTION RATIO	71	0	0	71	1	0

Parameter Period of Record Tabulation
From 01/01/01 To 11/20/98

Parameter Code	Name	Total Obs	01/01/85 to 11/20/98	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
00935	POTASSIUM, DISSOLVED (MG/L AS K)	100	34	12	54	20	16
00937	POTASSIUM, TOTAL MG/L AS K)	59	5	54	0	29	8
00940	CHLORIDE,TOTAL IN WATER MG/L	156	17	68	71	38	16
00941	CHLORIDE, DISSOLVED IN WATER MG/L	195	38	18	139	19	16
00945	SULFATE, TOTAL (MG/L AS SO4)	149	17	120	12	42	20
00946	SULFATE, DISSOLVED (MG/L AS SO4)	91	34	6	51	18	15
00950	FLUORIDE, DISSOLVED (MG/L AS F)	40	1	3	36	13	11
00951	FLUORIDE, TOTAL (MG/L AS F)	38	17	21	0	13	13
00955	SILICA, DISSOLVED (MG/L AS SI02)	42	0	0	42	9	7
00956	SILICA, TOTAL (MG/L AS SI02)	44	0	44	0	21	0
01000	ARSENIC, DISSOLVED (UG/L AS AS)	18	0	0	18	1	0
01002	ARSENIC, TOTAL (UG/L AS AS)	106	53	53	0	39	15
01005	BARIUM, DISSOLVED (UG/L AS BA)	1	0	0	1	1	0
01007	BARIUM, TOTAL (UG/L AS BA)	73	20	53	0	31	9
01012	BERYLLIUM, TOTAL (UG/L AS BE)	57	9	48	0	25	3
01020	BORON, DISSOLVED (UG/L AS B)	176	20	19	137	15	9
01022	BORON, TOTAL (UG/L AS B)	6	6	0	0	1	1
01025	CADMIUM, DISSOLVED (UG/L AS CD)	50	0	49	1	4	0
01027	CADMIUM, TOTAL (UG/L AS CD)	184	61	122	1	44	19
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	6	0	0	6	1	0
01034	CHROMIUM, TOTAL (UG/L AS CR)	109	59	50	0	39	16
01037	COBALT, TOTAL (UG/L AS CO)	48	0	48	0	22	0
01040	COPPER, DISSOLVED (UG/L AS CU)	67	0	49	18	10	4
01042	COPPER, TOTAL (UG/L AS CU)	3847	1508	1299	1040	52	23
01045	IRON, TOTAL (UG/L AS FE)	164	59	103	2	45	21
01046	IRON, DISSOLVED (UG/L AS FE)	15	0	0	15	8	7
01047	IRON, FERROUS (UG/L AS FE)	91	0	91	0	21	0
01049	LEAD, DISSOLVED (UG/L AS PB)	10	0	0	10	1	0
01051	LEAD, TOTAL (UG/L AS PB)	113	59	53	1	42	17
01055	MANGANESE, TOTAL (UG/L AS MN)	111	52	58	1	45	20
01056	MANGANESE, DISSOLVED (UG/L AS MN)	9	0	0	9	1	0
01059	THALLIUM, TOTAL (UG/L AS TL)	57	9	48	0	25	3
01062	MOLYBDENUM, TOTAL (UG/L AS MO)	29	29	0	0	9	7
01067	NICKEL, TOTAL (UG/L AS NI)	88	42	46	0	33	10
01077	SILVER, TOTAL (UG/L AS AG)	97	44	53	0	39	15
01087	VANADIUM, TOTAL (UG/L AS V)	48	0	48	0	22	0
01090	ZINC, DISSOLVED (UG/L AS ZN)	68	0	49	19	11	4
01092	ZINC, TOTAL (UG/L AS ZN)	2853	1491	1041	321	41	14
01097	ANTIMONY, TOTAL (UG/L AS SB)	51	3	48	0	25	3
01102	TIN, TOTAL (UG/L AS SN)	34	0	34	0	17	0
01105	ALUMINUM, TOTAL (UG/L AS AL)	84	41	43	0	33	11
01145	SELENIUM, DISSOLVED (UG/L AS SE)	1	0	0	1	1	0
01147	SELENIUM, TOTAL (UG/L AS SE)	100	53	47	0	35	15
01171	PLATINUM,WHOLE WATER SAMPLE,UG/L	44	0	44	0	21	0
01220	CHROMIUM, HEXAVALENT, DISSOLVED IN (UG/L AS CR)	2	0	0	2	1	0
01288	FOAMING AGENTS MG/L	2	0	2	0	2	2
01501	ALPHA, TOTAL	12	7	5	0	6	6
01502	ALPHA, TOTAL, COUNTING ERROR	12	7	5	0	6	6
01519	RADIATION, GROSS ALPHA, WHOLE WATER PC/L	1	1	0	0	1	1
11006	INVALID PARAMETER	9	0	0	9	1	0
22708	URANIUM, NATURAL TOTAL MG/L	1	1	0	0	1	1
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	183	151	32	0	45	44
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	219	168	51	0	51	48
31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	2	2	0	0	1	0
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	1	1	0	0	1	0
32101	BROMODICHLOROMETHANE,WHOLE WATER,UG/L	2	2	0	0	2	2
32102	CARBON TETRACHLORIDE,WHOLE WATER,UG/L	2	2	0	0	2	2
32104	BROMOFORM,WHOLE WATER,UG/L	2	2	0	0	2	2
32105	DIBROMOCHLOROMETHANE,WHOLE WATER,UG/L	2	2	0	0	2	2
32106	CHLOROFORM,WHOLE WATER,UG/L	2	2	0	0	2	2
32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	356	356	0	0	5	5
34010	TOLUENE IN WTR SMPLE GC-MS, HEXADECONE EXTR.(UG/L)	2	2	0	0	2	2
34030	BENZENE IN WTR SMPLE GC-MS, HEXADECONE EXTR.(UG/L)	2	2	0	0	2	2
34273	BIS (2-CHLOROETHYL) ETHER TOTWUG/L	1	1	0	0	1	1
34301	CHLOROBENZENE TOTWUG/L	2	2	0	0	2	2
34311	CHLOROETHANE TOTWUG/L	2	2	0	0	2	2
34371	ETHYLBENZENE TOTWUG/L	2	2	0	0	2	2
34391	HEXACHLOROBUTADIENE TOTWUG/L	2	2	0	0	2	2
34413	METHYL BROMIDE TOTWUG/L	2	2	0	0	2	2
34418	METHYL CHLORIDE TOTWUG/L	2	2	0	0	2	2
34423	METHYLENE CHLORIDE TOTWUG/L	2	2	0	0	2	2

Parameter Period of Record Tabulation
From 01/01/01 To 11/20/98

Parameter Code	Name	Total Obs	01/01/85 to 11/20/98	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
34475	TETRACHLOROETHYLENE TOTWUG/L	2	2	0	0	2	2
34488	TRICHLOROFLUOROMETHANE TOTWUG/L	2	2	0	0	2	2
34496	1,1-DICHLOROETHANE TOTWUG/L	2	2	0	0	2	2
34501	1,1-DICHLOROETHYLENE TOTWUG/L	2	2	0	0	2	2
34506	1,1,1-TRICHLOROETHANE TOTWUG/L	2	2	0	0	2	2
34511	1,1,2-TRICHLOROETHANE TOTWUG/L	2	2	0	0	2	2
34516	1,1,2,2-TETRACHLOROETHANE TOTWUG/L	2	2	0	0	2	2
34531	1,2-DICHLOROETHANE TOTWUG/L	2	2	0	0	2	2
34536	1,2-DICHLOROBENZENE TOTWUG/L	2	2	0	0	2	2
34541	1,2-DICHLOROPROPANE TOTWUG/L	2	2	0	0	2	2
34546	TRANS-1,2-DICHLOROETHENE, TOTAL, IN WATER UG/L	2	2	0	0	2	2
34551	1,2,4-TRICHLOROBENZENE TOTWUG/L	2	2	0	0	2	2
34561	1,3-DICHLOROPROPENE TOTWUG/L	2	2	0	0	2	2
34566	1,3-DICHLOROBENZENE TOTWUG/L	2	2	0	0	2	2
34571	1,4-DICHLOROBENZENE TOTWUG/L	2	2	0	0	2	2
34576	2-CHLOROETHYL VINYL ETHER TOTWUG/L	2	2	0	0	2	2
34668	DICHLORODIFUOROMETHANE TOTWUG/L	2	2	0	0	2	2
34696	NAPHTHALENE TOTWUG/L	2	2	0	0	2	2
34722	BOLERO (THIOBENCARB), WATER, WHOLE UG/L	1	1	0	0	1	1
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	47	17	20	10	14	13
38710	BENTAZON WATER, TOTUG/L	1	1	0	0	1	1
38761	DBCP WATER, DISUG/L	5	5	0	0	2	2
39033	ATRAZINE IN WHOLE WATER SAMPLE UG/L	3	3	0	0	1	1
39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	135	5	42	88	5	2
39045	2,4,5-TP INCLUDES ACIDS & SALTS WATER SAMPL UG/L	14	8	6	0	10	10
39055	SIMAZINE IN WHOLE WATER (UG/L)	3	3	0	0	1	1
39100	BIS(2-ETHYLHEXYL) PHTHALATE,WHOLE WATER,UG/L	1	1	0	0	1	1
39175	VINYL CHLORIDE-WHOLE WATER SAMPLE-UG/L	2	2	0	0	2	2
39180	TRICHLOROETHYLENE-WHOLE WATER SAMPLE-UG/L	2	2	0	0	2	2
39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	13	7	6	0	10	10
39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	1	1	0	0	1	1
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	15	8	7	0	11	11
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	15	8	7	0	11	11
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	1	1	0	0	1	1
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	1	1	0	0	1	1
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	15	8	7	0	11	11
39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	15	8	7	0	11	11
39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	1	0	1	0	1	1
39782	LINDANE IN WHOLE WATER SAMPLE (UG/L)	2	1	1	0	1	1
45634	HARDNESS, CALCIUM, AS CAC03, WATER, WHOLE, MG/L	1	0	1	0	1	1
45635	HARDNESS, MAGNESIUM, AS CAC03, WATER, WHOLE, MG/L	1	0	1	0	1	1
46480	OXIDATION REDUCTION POTENTIAL, FIELD MV	475	475	0	0	7	7
46491	METHYL TERTIARY BUTYL ETHER(MTBE),TOTAL,WATER UG/L	9	9	0	0	2	2
49701	TRANSPARENCY, SECCHI DISK, WATER FT	4	0	0	4	1	1
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	92	42	22	28	20	18
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	51	0	44	7	28	7
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	12	0	0	12	1	0
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	18	14	0	4	2	0
70332	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .125MM	10	6	0	4	2	0
70333	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .250MM	8	6	0	2	2	0
70334	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM	7	6	0	1	2	0
70335	SUSPENDED SED SIEVE DIAMETER,% FINER THAN 1.00MM	4	4	0	0	1	0
70336	SUSPENDED SED SIEVE DIAMETER,% FINER THAN 2.00MM	2	2	0	0	1	0
70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	3	0	0	3	1	0
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	4	0	0	4	1	0
70339	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM	4	1	0	3	2	0
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	4	0	0	4	1	0
70341	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM	3	0	0	3	1	0
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	19	0	0	19	1	0
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	19	0	0	19	1	0
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	19	0	0	19	1	0
70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	18	0	0	18	1	0
70346	SUS SED FALL DIA(DISTLD WATER)%FINER THAN 1.00MM	9	0	0	9	1	0
71814	LANGELIER INDEX, CORROSIVITY, WATER, INDEX NUMBER	3	3	0	0	3	3
71830	HYDROXIDE ION (MG/L AS OH)	1	1	0	0	1	1
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	354	354	0	0	5	5
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	43	22	21	0	14	14
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	76	19	6	51	20	16
71885	IRON (UG/L AS FE)	1	0	0	1	1	0
71889	PHOSPHATE, ORTHO, SOLUBLE, AS PO4 (MG/L)	57	44	13	0	8	6
71890	MERCURY, DISSOLVED (UG/L AS HG)	1	0	0	1	1	0

Parameter Period of Record Tabulation
From 01/01/01 To 11/20/98

Parameter Code	Name	Total Obs	01/01/85 to 11/20/98	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
71900	MERCURY, TOTAL (UG/L AS HG)	105	52	52	1	39	14
71910	GOLD, TOTAL (UG/L AS AU)	43	0	43	0	21	0
72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	2899	1068	1513	318	4	3
72034	FLOW, INSTANTANEOUS SPILLWAY DISCHARGE CFS	188	179	9	0	1	0
77093	CIS-1,2-DICHLOROETHYLENE WHOLE WATER,UG/L	2	2	0	0	2	2
77128	STYRENE WHOLE WATER,UG/L	2	2	0	0	2	2
77135	O-XYLENE WHOLE WATER,UG/L	2	2	0	0	2	2
77168	1,1-DICHLOROPROPENE WHOLE WATER,UG/L	2	2	0	0	2	2
77170	2,2-DICHLOROPROPANE WHOLE WATER,UG/L	2	2	0	0	2	2
77173	1,3-DICHLOROPROPANE WHOLE WATER,UG/L	2	2	0	0	2	2
77222	1,2,4-TRIMETHYLBENZENE WHOLE WATER,UG/L	2	2	0	0	2	2
77223	ISOPROPYLBENZENE WHOLE WATER,UG/L	2	2	0	0	2	2
77224	N-PROPYLBENZENE WHOLE WATER,UG/L	2	2	0	0	2	2
77226	1,3,5-TRIMETHYLBENZENE WHOLE WATER,UG/L	2	2	0	0	2	2
77275	1-METHYL-2-CHLOROBENZENE (O-CHLOR*WHOLE WATER,UG/L	2	2	0	0	2	2
77277	1-METHYL-4-CHLOROBENZENE (P-CHLOR*WHOLE WATER,UG/L	2	2	0	0	2	2
77297	CHLOROBROMOMETHANE WHOLE WATER,UG/L	2	2	0	0	2	2
77342	N-BUTYLBENZENE WHOLE WATER,UG/L	2	2	0	0	2	2
77350	SEC-BUTYLBENZENE WHOLE WATER,UG/L	2	2	0	0	2	2
77353	TERT-BUTYLBENZENE WHOLE WATER,UG/L	2	2	0	0	2	2
77356	1-METHYL-4-ISOPROPYLBENZENE WHOLE WATER,UG/L	2	2	0	0	2	2
77443	1,2,3-TRICHLOROPROPANE WHOLE WATER,UG/L	2	2	0	0	2	2
77562	1,1,1,2-TETRACHLOROETHANE WHOLE WATER,UG/L	2	2	0	0	2	2
77596	METHYLENE BROMIDE WHOLE WATER,UG/L	2	2	0	0	2	2
77613	1,2,3-TRICHLOROBENZENE WHOLE WATER,UG/L	2	2	0	0	2	2
77651	1,2-DIBROMOETHANE WHOLE WATER,UG/L	5	5	0	0	2	2
79743	GLYPHOSATE(GLYCINE,N-(PHOSPHONOMETHYL)-) TOTWUG/L	1	1	0	0	1	1
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	347	53	3	291	2	0
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	291	0	0	291	1	0
80164	BED MATERIAL SIEVE DIAMETER,% FINER THAN .062MM	8	8	0	0	1	0
80165	BED MATERIAL SIEVE DIAMETER,% FINER THAN .125MM	16	15	1	0	1	0
80166	BED MATERIAL SIEVE DIAMETER,% FINER THAN .250MM	33	30	3	0	1	0
80167	BED MATERIAL SIEVE DIAMETER,% FINER THAN .500MM	37	34	3	0	1	0
80168	BED MATERIAL SIEVE DIAMETER,% FINER THAN 1.00MM	37	34	3	0	1	0
80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	37	34	3	0	1	0
80170	BED MATERIAL SIEVE DIAMETER,% FINER THAN 4.00MM	37	34	3	0	1	0
80171	BED MATERIAL SIEVE DIAMETER,% FINER THAN 8.00MM	33	31	2	0	1	0
80172	BED MATERIAL SIEVE DIAMETER,% FINER THAN 16.0MM	11	11	0	0	1	0
80173	BED MATERIAL SIEVE DIAMETER,% FINER THAN 32.0MM	3	3	0	0	1	0
80174	BED MATERIAL SIEVE DIAMETER,% FINER THAN 64.0MM	2	2	0	0	1	0
80225	BEDLOAD SEDIMENT DISCHARGE (TONS/DAY)	7	7	0	0	1	0
80228	BEDLOAD SEDIMENT SIEVE DIAM, % FINER THAN .250MM	6	6	0	0	1	0
80229	BEDLOAD SEDIMENT SIEVE DIAM, % FINER THAN .500MM	7	7	0	0	1	0
80230	BEDLOAD SEDIMENT SIEVE DIAM, % FINER THAN 1.00MM	7	7	0	0	1	0
80231	BEDLOAD SEDIMENT SIEVE DIAM, % FINER THAN 2.00MM	7	7	0	0	1	0
80232	BEDLOAD SEDIMENT SIEVE DIAM, % FINER THAN 4.00MM	7	7	0	0	1	0
80233	BEDLOAD SEDIMENT SIEVE DIAM, % FINER THAN 8.00MM	7	7	0	0	1	0
80234	BEDLOAD SEDIMENT SIEVE DIAM, % FINER THAN 16.0MM	1	1	0	0	1	0
81405	CARBOFURAN (EURADAN) WHOLE WATER SAMPLE UG/L	1	1	0	0	1	1
81551	XYLENE WHL WATER SMPL UG/L	2	2	0	0	2	2
81555	BROMOBENZENE WHL WATER SMPL UG/L	2	2	0	0	2	2
81595	METHYL ETHYL KETONE WHL WATER SMPL UG/L	1	1	0	0	1	1
81596	METHYL-ISOBUTYL KETONE WHL WATER SMPL UG/L	1	1	0	0	1	1
81611	TRICHLOROTRIFLUOROETHANE WHL WATER SMPL UG/L	2	2	0	0	2	2
81855	ASBESTOS (FIBROUS-CHRYSOTILE) WHL WAT FIBERS/LITER	1	1	0	0	1	1
82032	CALCIUM - TOTAL UG/L (AS CA)	44	0	44	0	21	0
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	103	86	9	8	9	9
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	303	245	58	0	18	15
82080	TRIHALOMETHANE TOTAL IN WATER, BY SUMMATION UG/L	2	2	0	0	2	2
82199	ORDRAM (HYDRAM) IN WATER UG/L	1	1	0	0	1	1
82383	AGGRESSIVE INDEX = PH + LOG(AH) INDEX	1	1	0	0	1	1
85795	XYLENE, META & PARA, WATER, WHOLE UG/L	2	2	0	0	2	2

Station/Parameter Period of Record Tabulation
From 01/01/01 To 11/20/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
WHIS0047	No	00004	STREAM WIDTH (FEET)	01/30/86-04/06/89	3	7	
WHIS0002	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/28/58-09/04/86	28	177	
WHIS0004	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/97-01/05/98	0	4	
WHIS0007	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/97-01/06/98	0	4	
WHIS0009	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/02/73-07/13/84	11	85	
WHIS0011	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/03/84-08/03/84	0	1	
WHIS0012	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/02/73-07/18/80	7	76	
WHIS0013	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/10/84-08/10/84	0	1	
WHIS0015	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/97-01/06/98	0	4	
WHIS0016	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/04/73-07/18/80	7	90	
WHIS0020	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/20/84-07/20/84	0	1	
WHIS0023	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/20/84-07/20/84	0	1	
WHIS0029	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/21/71-06/02/94	22	1115	
WHIS0031	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/13/76-06/29/77	0	3	
WHIS0033	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/08/97-01/07/98	0	257	
WHIS0035	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/26/78-09/13/90	12	1038	
WHIS0038	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/10/84-08/10/84	0	1	
WHIS0044	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-01/23/80	6	92	
WHIS0047	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/04/84-04/06/89	4	100	
WHIS0050	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/22/93-08/16/94	1	241	
WHIS0052	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/21/88-09/13/90	2	105	
WHIS0062	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/22/93-08/16/94	1	246	
WHIS0065	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/22/93-08/16/94	1	192	
WHIS0074	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-01/23/80	6	46	
WHIS0075	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/22/93-08/16/94	1	179	
WHIS0076	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/30/78-09/13/90	12	968	
WHIS0089	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/22/93-08/16/94	1	163	
WHIS0093	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-01/23/80	6	88	
WHIS0097	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/04/84-06/28/84	0	13	
WHIS0102	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/04/84-06/05/84	0	21	
WHIS0105	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/22/93-08/16/94	1	165	
WHIS0109	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/23/76-08/16/79	3	20	
WHIS0113	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/06/98-01/06/98	0	1	
WHIS0117	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/22/93-08/16/94	1	156	
WHIS0119	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/13/84-06/13/84	0	1	
WHIS0128	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/13/84-06/13/84	0	1	
WHIS0135	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/31/84-08/31/84	0	1	
WHIS0137	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/02/73-01/23/80	6	31	
WHIS0140	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/11/80-07/11/80	0	1	
WHIS0141	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/23/84-05/23/84	0	1	
WHIS0142	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/29/83-06/13/84	0	4	
WHIS0143	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/20/76-01/17/80	3	43	
WHIS0144	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/31/84-08/31/84	0	1	
WHIS0145	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/29/83-05/23/84	0	2	
WHIS0146	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/13/84-06/13/84	0	1	
WHIS0147	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/13/84-06/13/84	0	1	
WHIS0148	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-01/23/80	6	91	
WHIS0150	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/23/84-05/23/84	0	1	
WHIS0151	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/14/73-01/17/80	7	82	
WHIS0152	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/97-01/06/98	0	4	
WHIS0154	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/22/77-01/27/81	3	65	
WHIS0156	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/13/84-06/13/84	0	1	
WHIS0157	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/97-01/06/98	0	4	
WHIS0160	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/13/84-06/13/84	0	1	
WHIS0162	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-07/11/80	7	91	
WHIS0163	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/26/83-06/05/84	0	22	
WHIS0166	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/23/84-05/23/84	0	1	
WHIS0167	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/30/84-05/30/84	0	1	
WHIS0168	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/30/84-05/30/84	0	1	
WHIS0169	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/30/84-06/13/84	0	2	
WHIS0170	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-07/11/80	7	91	
WHIS0171	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/23/84-05/23/84	0	1	
WHIS0174	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/15/76-01/15/76	0	2	
WHIS0175	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/03/72-09/27/84	12	92	
WHIS0176	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/30/84-05/30/84	0	1	
WHIS0183	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/14/76-01/14/76	0	1	
WHIS0187	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/30/83-05/08/84	0	18	
WHIS0189	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/01/83-09/01/83	0	1	
WHIS0194	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/01/57-09/01/67	10	262	
WHIS0195	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/97-01/06/98	0	4	
WHIS0197	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/97-01/06/98	0	4	
WHIS0002	No	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/27/55-09/19/88	33	45	T,S

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 11/20/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
WHIS0004	No	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	10/07/97-01/05/98	0	4	
WHIS0007	Yes	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	10/07/97-01/06/98	0	4	
WHIS0015	Yes	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	10/07/97-01/06/98	0	4	
WHIS0029	Yes	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	10/05/70-06/02/94	23	334	T,S
WHIS0031	Yes	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	05/14/63-01/22/64	0	2	
WHIS0032	Yes	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	05/27/65-10/18/65	0	391	
WHIS0033	Yes	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	10/08/97-01/07/98	0	257	
WHIS0035	Yes	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	10/11/90-10/18/91	1	92	
WHIS0052	Yes	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	10/11/90-10/18/91	1	56	
WHIS0067	Yes	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	08/13/97-01/06/98	0	6	
WHIS0076	Yes	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/24/72-10/18/91	19	540	T,S
WHIS0113	Yes	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/06/98-01/06/98	0	1	
WHIS0152	Yes	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	10/07/97-01/06/98	0	4	
WHIS0154	Yes	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	05/14/63-03/03/83	19	4	
WHIS0157	Yes	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	10/07/97-01/06/98	0	4	
WHIS0195	No	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	10/07/97-01/06/98	0	4	
WHIS0197	No	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	10/07/97-01/06/98	0	4	
WHIS0005	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/03/84-08/03/84	0	1	
WHIS0009	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/02/73-07/13/84	11	84	
WHIS0010	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/03/84-08/03/84	0	1	
WHIS0011	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/03/84-08/03/84	0	1	
WHIS0012	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/02/73-07/18/80	7	79	
WHIS0013	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/10/84-08/10/84	0	1	
WHIS0016	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/04/73-07/18/80	7	90	
WHIS0020	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/20/84-07/20/84	0	1	
WHIS0023	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/20/84-07/20/84	0	1	
WHIS0035	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/11/87-07/27/90	3	18	
WHIS0038	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/10/84-08/10/84	0	1	
WHIS0044	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-01/23/80	6	92	
WHIS0052	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/21/88-07/27/90	2	15	
WHIS0074	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-01/23/80	6	46	
WHIS0076	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/11/87-09/13/90	3	20	
WHIS0093	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-01/23/80	6	88	
WHIS0109	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	01/23/76-08/16/79	3	21	
WHIS0135	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/31/84-08/31/84	0	1	
WHIS0137	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	03/02/73-01/23/80	6	30	
WHIS0140	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/11/80-07/11/80	0	1	
WHIS0143	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	01/20/76-01/17/80	3	43	
WHIS0144	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/31/84-08/31/84	0	1	
WHIS0148	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-01/23/80	6	91	
WHIS0151	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	01/14/73-01/17/80	7	82	
WHIS0162	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-07/11/80	7	91	
WHIS0170	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-07/11/80	7	92	
WHIS0175	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/03/72-09/27/84	12	93	
WHIS0032	Yes	00021	TEMPERATURE, AIR (DEGREES FAHRENHEIT)	05/27/65-10/18/65	0	7	
WHIS0076	Yes	00021	TEMPERATURE, AIR (DEGREES FAHRENHEIT)	10/11/90-10/18/91	1	10	
WHIS0002	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	02/11/52-09/19/88	36	223	
WHIS0025	Yes	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	03/13/81-03/13/81	0	1	
WHIS0027	Yes	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	07/10/75-09/22/86	11	3	
WHIS0028	Yes	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	06/21/78-08/19/85	7	8	
WHIS0031	Yes	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	05/14/63-09/30/86	23	18	
WHIS0047	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	10/04/84-04/06/89	4	92	
WHIS0060	Yes	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	02/05/80-02/05/80	0	1	
WHIS0154	Yes	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	05/14/63-03/03/83	19	67	
WHIS0164	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	06/09/52-04/27/55	2	2	
WHIS0165	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	06/26/52-06/26/52	0	1	
WHIS0198	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	06/26/52-06/26/52	0	1	
WHIS0027	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	07/10/75-09/22/86	11	3	
WHIS0028	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	06/21/78-08/19/85	7	8	
WHIS0041	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	03/17/80-04/10/87	7	4	
WHIS0047	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	10/04/84-04/06/89	4	90	
WHIS0060	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	06/21/78-09/22/86	8	7	
WHIS0063	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	03/17/80-04/10/87	7	4	
WHIS0087	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	04/03/86-12/10/86	0	3	
WHIS0110	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	10/07/81-04/03/86	4	3	
WHIS0120	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	03/17/80-03/07/85	4	3	
WHIS0005	Yes	00032	CLOUD COVER (PERCENT)	08/03/84-08/03/84	0	1	
WHIS0009	Yes	00032	CLOUD COVER (PERCENT)	07/18/80-07/13/84	3	2	
WHIS0010	Yes	00032	CLOUD COVER (PERCENT)	08/03/84-08/03/84	0	1	
WHIS0011	Yes	00032	CLOUD COVER (PERCENT)	08/03/84-08/03/84	0	1	
WHIS0012	Yes	00032	CLOUD COVER (PERCENT)	07/18/80-07/18/80	0	1	
WHIS0013	Yes	00032	CLOUD COVER (PERCENT)	08/10/84-08/10/84	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 11/20/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
WHIS0016	Yes	00032	CLOUD COVER (PERCENT)	07/18/80-07/18/80	0	1	
WHIS0020	Yes	00032	CLOUD COVER (PERCENT)	07/20/84-07/20/84	0	1	
WHIS0023	Yes	00032	CLOUD COVER (PERCENT)	07/20/84-07/20/84	0	1	
WHIS0038	Yes	00032	CLOUD COVER (PERCENT)	08/10/84-08/10/84	0	1	
WHIS0135	Yes	00032	CLOUD COVER (PERCENT)	08/31/84-08/31/84	0	1	
WHIS0140	Yes	00032	CLOUD COVER (PERCENT)	07/11/80-07/11/80	0	1	
WHIS0144	Yes	00032	CLOUD COVER (PERCENT)	08/31/84-08/31/84	0	1	
WHIS0162	Yes	00032	CLOUD COVER (PERCENT)	07/11/80-07/11/80	0	1	
WHIS0170	Yes	00032	CLOUD COVER (PERCENT)	07/11/80-07/11/80	0	1	
WHIS0175	Yes	00032	CLOUD COVER (PERCENT)	07/11/80-09/27/84	4	2	
WHIS0005	Yes	00035	WIND VELOCITY (MILES PER HOUR)	08/03/84-08/03/84	0	1	
WHIS0009	Yes	00035	WIND VELOCITY (MILES PER HOUR)	07/18/80-07/13/84	3	2	
WHIS0010	Yes	00035	WIND VELOCITY (MILES PER HOUR)	08/03/84-08/03/84	0	1	
WHIS0011	Yes	00035	WIND VELOCITY (MILES PER HOUR)	08/03/84-08/03/84	0	1	
WHIS0012	Yes	00035	WIND VELOCITY (MILES PER HOUR)	07/18/80-07/18/80	0	1	
WHIS0013	Yes	00035	WIND VELOCITY (MILES PER HOUR)	08/10/84-08/10/84	0	1	
WHIS0016	Yes	00035	WIND VELOCITY (MILES PER HOUR)	07/18/80-07/18/80	0	1	
WHIS0020	Yes	00035	WIND VELOCITY (MILES PER HOUR)	07/20/84-07/20/84	0	1	
WHIS0023	Yes	00035	WIND VELOCITY (MILES PER HOUR)	07/20/84-07/20/84	0	1	
WHIS0032	Yes	00035	WIND VELOCITY (MILES PER HOUR)	07/08/65-10/18/65	0	6	
WHIS0038	Yes	00035	WIND VELOCITY (MILES PER HOUR)	08/10/84-08/10/84	0	1	
WHIS0135	Yes	00035	WIND VELOCITY (MILES PER HOUR)	08/31/84-08/31/84	0	1	
WHIS0140	Yes	00035	WIND VELOCITY (MILES PER HOUR)	07/11/80-07/11/80	0	1	
WHIS0144	Yes	00035	WIND VELOCITY (MILES PER HOUR)	08/31/84-08/31/84	0	1	
WHIS0162	Yes	00035	WIND VELOCITY (MILES PER HOUR)	07/11/80-07/11/80	0	1	
WHIS0170	Yes	00035	WIND VELOCITY (MILES PER HOUR)	07/11/80-07/11/80	0	1	
WHIS0175	Yes	00035	WIND VELOCITY (MILES PER HOUR)	07/11/80-09/27/84	4	2	
WHIS0005	Yes	00036	WIND DIRECTION IN DEGREES FROM TRUE N (CLOCKWISE)	08/03/84-08/03/84	0	1	
WHIS0009	Yes	00036	WIND DIRECTION IN DEGREES FROM TRUE N (CLOCKWISE)	07/18/80-07/13/84	3	2	
WHIS0011	Yes	00036	WIND DIRECTION IN DEGREES FROM TRUE N (CLOCKWISE)	08/03/84-08/03/84	0	1	
WHIS0012	Yes	00036	WIND DIRECTION IN DEGREES FROM TRUE N (CLOCKWISE)	07/18/80-07/18/80	0	1	
WHIS0016	Yes	00036	WIND DIRECTION IN DEGREES FROM TRUE N (CLOCKWISE)	07/18/80-07/18/80	0	1	
WHIS0038	Yes	00036	WIND DIRECTION IN DEGREES FROM TRUE N (CLOCKWISE)	08/10/84-08/10/84	0	1	
WHIS0175	Yes	00036	WIND DIRECTION IN DEGREES FROM TRUE N (CLOCKWISE)	09/27/84-09/27/84	0	1	
WHIS0002	No	00042	ALTITUDE IN FEET ABOVE MEAN SEA LEVEL	01/01/01-01/01/01	0	1	
WHIS0031	Yes	00042	ALTITUDE IN FEET ABOVE MEAN SEA LEVEL	01/01/01-01/01/01	0	1	
WHIS0081	No	00042	ALTITUDE IN FEET ABOVE MEAN SEA LEVEL	01/01/01-01/01/01	0	1	
WHIS0154	Yes	00042	ALTITUDE IN FEET ABOVE MEAN SEA LEVEL	01/01/01-01/01/01	0	1	
WHIS0005	Yes	00045	PRECIPITATION, TOTAL (INCHES PER DAY)	08/03/84-08/03/84	0	1	
WHIS0009	Yes	00045	PRECIPITATION, TOTAL (INCHES PER DAY)	07/18/80-07/13/84	3	2	
WHIS0010	Yes	00045	PRECIPITATION, TOTAL (INCHES PER DAY)	08/03/84-08/03/84	0	1	
WHIS0011	Yes	00045	PRECIPITATION, TOTAL (INCHES PER DAY)	08/03/84-08/03/84	0	1	
WHIS0012	Yes	00045	PRECIPITATION, TOTAL (INCHES PER DAY)	07/18/80-07/18/80	0	1	
WHIS0013	Yes	00045	PRECIPITATION, TOTAL (INCHES PER DAY)	08/10/84-08/10/84	0	1	
WHIS0016	Yes	00045	PRECIPITATION, TOTAL (INCHES PER DAY)	07/18/80-07/18/80	0	1	
WHIS0020	Yes	00045	PRECIPITATION, TOTAL (INCHES PER DAY)	07/20/84-07/20/84	0	1	
WHIS0023	Yes	00045	PRECIPITATION, TOTAL (INCHES PER DAY)	07/20/84-07/20/84	0	1	
WHIS0038	Yes	00045	PRECIPITATION, TOTAL (INCHES PER DAY)	08/10/84-08/10/84	0	1	
WHIS0135	Yes	00045	PRECIPITATION, TOTAL (INCHES PER DAY)	08/31/84-08/31/84	0	1	
WHIS0140	Yes	00045	PRECIPITATION, TOTAL (INCHES PER DAY)	07/11/80-07/11/80	0	1	
WHIS0144	Yes	00045	PRECIPITATION, TOTAL (INCHES PER DAY)	08/31/84-08/31/84	0	1	
WHIS0162	Yes	00045	PRECIPITATION, TOTAL (INCHES PER DAY)	07/11/80-07/11/80	0	1	
WHIS0170	Yes	00045	PRECIPITATION, TOTAL (INCHES PER DAY)	07/11/80-07/11/80	0	1	
WHIS0175	Yes	00045	PRECIPITATION, TOTAL (INCHES PER DAY)	07/11/80-09/27/84	4	2	
WHIS0097	No	00058	FLOW, RATE GALLONS/MIN	01/04/84-05/08/84	0	10	
WHIS0102	No	00058	FLOW, RATE GALLONS/MIN	01/04/84-05/08/84	0	19	
WHIS0119	No	00058	FLOW, RATE GALLONS/MIN	06/13/84-06/13/84	0	1	
WHIS0128	No	00058	FLOW, RATE GALLONS/MIN	06/13/84-06/13/84	0	1	
WHIS0141	No	00058	FLOW, RATE GALLONS/MIN	05/23/84-05/23/84	0	1	
WHIS0142	No	00058	FLOW, RATE GALLONS/MIN	09/29/83-06/13/84	0	4	
WHIS0145	No	00058	FLOW, RATE GALLONS/MIN	09/29/83-05/23/84	0	2	
WHIS0146	No	00058	FLOW, RATE GALLONS/MIN	06/13/84-06/13/84	0	1	
WHIS0147	No	00058	FLOW, RATE GALLONS/MIN	06/13/84-06/13/84	0	1	
WHIS0150	No	00058	FLOW, RATE GALLONS/MIN	05/23/84-05/23/84	0	1	
WHIS0156	No	00058	FLOW, RATE GALLONS/MIN	06/13/84-06/13/84	0	1	
WHIS0160	No	00058	FLOW, RATE GALLONS/MIN	06/13/84-06/13/84	0	1	
WHIS0161	No	00058	FLOW, RATE GALLONS/MIN	06/13/84-06/13/84	0	1	
WHIS0163	No	00058	FLOW, RATE GALLONS/MIN	09/26/83-05/08/84	0	20	
WHIS0166	No	00058	FLOW, RATE GALLONS/MIN	05/23/84-05/23/84	0	1	
WHIS0167	No	00058	FLOW, RATE GALLONS/MIN	05/30/84-05/30/84	0	1	
WHIS0168	No	00058	FLOW, RATE GALLONS/MIN	05/30/84-05/30/84	0	1	
WHIS0169	No	00058	FLOW, RATE GALLONS/MIN	05/30/84-06/13/84	0	2	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 11/20/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
WHIS0171	No	00058	FLOW, RATE GALLONS/MIN	05/23/84-05/23/84	0	1	
WHIS0172	Yes	00058	FLOW, RATE GALLONS/MIN	11/17/82-11/17/82	0	1	
WHIS0174	Yes	00058	FLOW, RATE GALLONS/MIN	01/15/76-01/15/76	0	2	
WHIS0176	No	00058	FLOW, RATE GALLONS/MIN	05/30/84-05/30/84	0	1	
WHIS0183	No	00058	FLOW, RATE GALLONS/MIN	01/14/76-01/14/76	0	1	
WHIS0187	No	00058	FLOW, RATE GALLONS/MIN	12/30/83-05/08/84	0	17	
WHIS0189	No	00058	FLOW, RATE GALLONS/MIN	09/01/83-09/01/83	0	1	
WHIS0003	No	00060	FLOW, STREAM, MEAN DAILY CFS	10/10/60-09/02/66	5	71	
WHIS0097	No	00060	FLOW, STREAM, MEAN DAILY CFS	05/22/84-06/05/84	0	2	
WHIS0102	No	00060	FLOW, STREAM, MEAN DAILY CFS	05/22/84-06/05/84	0	2	
WHIS0142	No	00060	FLOW, STREAM, MEAN DAILY CFS	05/23/84-06/13/84	0	2	
WHIS0146	No	00060	FLOW, STREAM, MEAN DAILY CFS	06/13/84-06/13/84	0	1	
WHIS0163	No	00060	FLOW, STREAM, MEAN DAILY CFS	05/22/84-06/05/84	0	2	
WHIS0194	No	00060	FLOW, STREAM, MEAN DAILY CFS	05/01/57-09/01/67	10	291	T,S
WHIS0002	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	04/28/58-09/19/88	30	165	
WHIS0005	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	08/03/84-08/03/84	0	1	
WHIS0009	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	07/02/73-06/14/79	5	56	
WHIS0010	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	08/03/84-08/03/84	0	1	
WHIS0011	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	08/03/84-08/03/84	0	1	
WHIS0012	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	07/02/73-07/18/80	7	75	
WHIS0013	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	08/10/84-08/10/84	0	1	
WHIS0016	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	05/01/73-11/15/73	0	13	
WHIS0020	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	07/20/84-07/20/84	0	1	
WHIS0023	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	07/20/84-07/20/84	0	1	
WHIS0035	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	08/27/86-12/03/86	0	43	
WHIS0038	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	08/10/84-08/10/84	0	1	
WHIS0044	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	05/01/73-01/23/80	6	77	
WHIS0047	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	10/04/84-04/06/89	4	100	
WHIS0074	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	05/01/73-01/23/80	6	37	
WHIS0076	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	08/27/86-12/03/86	0	43	
WHIS0078	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	02/15/86-04/07/89	3	16	
WHIS0082	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	10/04/69-03/31/94	24	1823	
WHIS0093	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	05/01/73-01/23/80	6	77	
WHIS0135	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	08/31/84-08/31/84	0	1	
WHIS0137	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	05/01/73-01/23/80	6	21	
WHIS0143	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	11/15/78-11/15/78	0	1	
WHIS0144	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	08/31/84-08/31/84	0	1	
WHIS0148	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	05/01/73-01/23/80	6	83	
WHIS0151	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	07/03/73-10/31/73	0	9	
WHIS0154	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	07/07/77-03/03/83	5	15	
WHIS0162	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	05/01/73-07/11/80	7	78	
WHIS0170	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	04/02/73-07/11/80	7	23	
WHIS0175	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	07/03/72-09/27/84	12	84	
WHIS0032	Yes	00062	ELEVATION, RESERVOIR SURFACE WATER IN FEET	05/27/65-10/18/65	0	8	
WHIS0035	Yes	00062	ELEVATION, RESERVOIR SURFACE WATER IN FEET	04/26/78-10/18/91	13	1087	T,A,S
WHIS0052	Yes	00062	ELEVATION, RESERVOIR SURFACE WATER IN FEET	07/21/88-10/18/91	3	161	
WHIS0076	Yes	00062	ELEVATION, RESERVOIR SURFACE WATER IN FEET	01/24/72-10/18/91	19	1465	T,A,S
WHIS0083	No	00062	ELEVATION, RESERVOIR SURFACE WATER IN FEET	03/24/89-05/04/89	0	48	
WHIS0084	No	00062	ELEVATION, RESERVOIR SURFACE WATER IN FEET	11/21/69-03/31/94	24	2260	T,A,S
WHIS0047	No	00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION	12/07/84-04/06/89	4	44	
WHIS0002	No	00065	STAGE, STREAM (FEET)	02/11/52-09/19/88	36	156	
WHIS0009	Yes	00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/02/73-01/17/80	6	82	
WHIS0012	Yes	00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/02/73-01/17/80	6	78	
WHIS0016	Yes	00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/04/73-01/17/80	6	89	
WHIS0032	Yes	00070	TURBIDITY, (JACKSON CANDLE UNITS)	06/18/65-10/18/65	0	31	
WHIS0044	Yes	00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-01/23/80	6	92	
WHIS0074	Yes	00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-01/23/80	6	48	
WHIS0093	Yes	00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-01/23/80	6	89	
WHIS0109	Yes	00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/15/75-08/16/79	4	33	
WHIS0126	Yes	00070	TURBIDITY, (JACKSON CANDLE UNITS)	06/05/75-06/05/75	0	1	
WHIS0137	Yes	00070	TURBIDITY, (JACKSON CANDLE UNITS)	03/02/73-01/23/80	6	33	
WHIS0139	Yes	00070	TURBIDITY, (JACKSON CANDLE UNITS)	06/05/75-06/05/75	0	1	
WHIS0140	Yes	00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/11/80-07/11/80	0	1	
WHIS0143	Yes	00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/20/76-01/17/80	3	44	
WHIS0148	Yes	00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-01/23/80	6	91	
WHIS0151	Yes	00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/14/73-01/17/80	7	82	
WHIS0153	Yes	00070	TURBIDITY, (JACKSON CANDLE UNITS)	06/05/75-06/05/75	0	1	
WHIS0162	Yes	00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-07/11/80	7	92	
WHIS0170	Yes	00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-07/11/80	7	93	
WHIS0175	Yes	00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/03/72-07/11/80	8	92	T,S
WHIS0002	No	00075	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	01/27/55-09/27/71	16	103	T,S
WHIS0031	Yes	00075	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	05/14/63-01/22/64	0	2	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 11/20/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
WHIS0154	Yes	00075	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	05/14/63-05/14/63	0	1	
WHIS0002	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	04/14/72-09/19/88	16	91	T,S
WHIS0031	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/13/76-05/08/86	9	4	
WHIS0154	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/07/77-03/03/83	5	64	
WHIS0029	Yes	00078	TRANSPARENCY, SECCHI DISC (METERS)	09/20/77-06/02/94	16	13	
WHIS0033	Yes	00078	TRANSPARENCY, SECCHI DISC (METERS)	10/08/97-01/07/98	0	4	
WHIS0050	Yes	00078	TRANSPARENCY, SECCHI DISC (METERS)	07/06/93-08/16/94	1	10	
WHIS0062	Yes	00078	TRANSPARENCY, SECCHI DISC (METERS)	04/21/93-08/16/94	1	11	
WHIS0065	Yes	00078	TRANSPARENCY, SECCHI DISC (METERS)	04/21/93-08/16/94	1	11	
WHIS0075	Yes	00078	TRANSPARENCY, SECCHI DISC (METERS)	04/21/93-08/16/94	1	11	
WHIS0089	Yes	00078	TRANSPARENCY, SECCHI DISC (METERS)	04/21/93-08/16/94	1	11	
WHIS0105	Yes	00078	TRANSPARENCY, SECCHI DISC (METERS)	04/21/93-08/16/94	1	11	
WHIS0117	Yes	00078	TRANSPARENCY, SECCHI DISC (METERS)	07/06/93-08/16/94	1	10	
WHIS0027	Yes	00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	03/13/81-03/13/81	0	1	
WHIS0028	Yes	00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	06/21/78-06/11/85	6	5	
WHIS0030	Yes	00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	06/27/91-06/27/91	0	1	
WHIS0042	Yes	00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	04/16/84-04/16/84	0	1	
WHIS0060	Yes	00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	06/21/78-04/28/83	4	5	
WHIS0063	Yes	00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	04/16/84-04/16/84	0	1	
WHIS0124	Yes	00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	04/16/84-04/16/84	0	1	
WHIS0027	Yes	00086	ODOR (THRESHOLD NUMBER AT 60 DEG C)	03/13/81-03/13/81	0	1	
WHIS0028	Yes	00086	ODOR (THRESHOLD NUMBER AT 60 DEG C)	06/21/78-06/11/85	6	5	
WHIS0030	Yes	00086	ODOR (THRESHOLD NUMBER AT 60 DEG C)	06/27/91-06/27/91	0	1	
WHIS0042	Yes	00086	ODOR (THRESHOLD NUMBER AT 60 DEG C)	04/16/84-04/16/84	0	1	
WHIS0060	Yes	00086	ODOR (THRESHOLD NUMBER AT 60 DEG C)	06/21/78-04/28/83	4	5	
WHIS0063	Yes	00086	ODOR (THRESHOLD NUMBER AT 60 DEG C)	04/16/84-04/16/84	0	1	
WHIS0124	Yes	00086	ODOR (THRESHOLD NUMBER AT 60 DEG C)	04/16/84-04/16/84	0	1	
WHIS0002	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/14/72-09/19/88	16	95	T,S
WHIS0004	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/07/97-01/05/98	0	4	
WHIS0007	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/07/97-01/06/98	0	4	
WHIS0008	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/18/96-09/16/98	1	6	
WHIS0009	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/02/73-07/13/84	11	80	T,S
WHIS0011	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/03/84-08/03/84	0	1	
WHIS0012	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/02/73-07/18/80	7	75	
WHIS0013	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/10/84-08/10/84	0	1	
WHIS0015	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/07/97-01/06/98	0	4	
WHIS0016	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	02/04/73-07/18/80	7	84	
WHIS0020	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/20/84-07/20/84	0	1	
WHIS0023	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/20/84-07/20/84	0	1	
WHIS0029	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/05/70-06/02/94	23	177	T,S
WHIS0031	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/13/76-12/17/81	5	7	
WHIS0033	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/12/97-12/02/97	0	42	
WHIS0038	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/10/84-08/10/84	0	1	
WHIS0044	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-01/23/80	6	83	
WHIS0050	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/22/93-08/16/94	1	241	
WHIS0062	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/22/93-08/16/94	1	246	
WHIS0065	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/22/93-08/16/94	1	192	
WHIS0074	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-01/23/80	6	39	
WHIS0075	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/22/93-08/16/94	1	179	
WHIS0089	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/22/93-08/16/94	1	163	
WHIS0093	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-01/23/80	6	79	
WHIS0105	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/22/93-08/16/94	1	164	
WHIS0109	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	01/23/76-08/16/79	3	18	
WHIS0113	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/13/97-01/06/98	0	3	
WHIS0117	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/22/93-08/16/94	1	156	
WHIS0135	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/31/84-08/31/84	0	1	
WHIS0137	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-01/23/80	6	25	
WHIS0140	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/11/80-07/11/80	0	1	
WHIS0143	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	01/20/76-01/17/80	3	44	
WHIS0144	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/31/84-08/31/84	0	1	
WHIS0148	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-01/23/80	6	83	
WHIS0151	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	01/14/73-01/17/80	7	79	
WHIS0152	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/07/97-01/06/98	0	4	
WHIS0154	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/07/77-03/03/83	5	65	
WHIS0157	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/07/97-01/06/98	0	4	
WHIS0162	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-07/11/80	7	82	
WHIS0170	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-07/11/80	7	83	
WHIS0175	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/03/72-07/11/80	8	82	T,S
WHIS0195	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/07/97-01/06/98	0	4	
WHIS0197	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/07/97-01/06/98	0	4	
WHIS0002	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/11/52-09/19/88	36	73	T,S
WHIS0003	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM 25C)	10/10/60-09/02/66	5	71	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 11/20/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
WHIS0004	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/07/97-01/05/98	0	4	
WHIS0007	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/07/97-01/06/98	0	4	
WHIS0015	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/13/97-01/06/98	0	3	
WHIS0027	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/10/75-03/13/81	5	2	
WHIS0028	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/21/78-06/11/85	6	5	
WHIS0029	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/01/78-06/02/94	16	233	T,S
WHIS0030	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/22/86-02/16/94	7	5	
WHIS0031	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/14/63-01/22/64	0	2	
WHIS0033	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/08/97-12/02/97	0	64	
WHIS0041	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/17/80-09/09/82	2	2	
WHIS0042	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/16/84-02/11/91	6	3	
WHIS0045	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/15/62-11/15/62	0	1	
WHIS0046	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/24/68-05/24/68	0	1	
WHIS0054	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/10/92-07/10/92	0	1	
WHIS0058	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/31/79-01/31/79	0	1	
WHIS0060	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/21/78-09/22/86	8	6	
WHIS0063	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/17/80-04/10/87	7	4	
WHIS0067	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/13/97-01/06/98	0	6	
WHIS0087	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/03/86-04/03/86	0	1	
WHIS0092	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/14/62-11/14/62	0	1	
WHIS0097	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/04/84-06/28/84	0	12	
WHIS0102	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/04/84-06/05/84	0	21	
WHIS0106	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/23/68-05/23/68	0	1	
WHIS0110	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/07/81-10/07/81	0	1	
WHIS0111	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/07/81-10/07/81	0	1	
WHIS0113	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/13/97-01/06/98	0	3	
WHIS0119	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/13/84-06/13/84	0	1	
WHIS0120	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/17/80-10/07/81	1	2	
WHIS0124	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/16/84-04/03/86	1	2	
WHIS0127	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/07/85-02/27/92	6	3	
WHIS0128	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/13/84-06/13/84	0	1	
WHIS0131	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/15/62-11/15/62	0	1	
WHIS0141	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/23/84-05/23/84	0	1	
WHIS0142	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/29/83-06/13/84	0	4	
WHIS0145	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/29/83-05/23/84	0	2	
WHIS0146	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/13/84-06/13/84	0	1	
WHIS0147	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/13/84-06/13/84	0	1	
WHIS0149	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/24/68-05/24/68	0	1	
WHIS0150	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/23/84-05/23/84	0	1	
WHIS0152	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/07/97-01/06/98	0	4	
WHIS0154	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/14/63-03/03/83	19	5	
WHIS0156	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/13/84-06/13/84	0	1	
WHIS0157	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/07/97-01/06/98	0	4	
WHIS0160	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/13/84-06/13/84	0	1	
WHIS0161	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/13/84-06/13/84	0	1	
WHIS0163	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/26/83-06/05/84	0	22	
WHIS0164	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/09/52-06/09/52	0	1	
WHIS0165	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/26/52-06/26/52	0	1	
WHIS0166	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/23/84-05/23/84	0	1	
WHIS0169	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/13/84-06/13/84	0	1	
WHIS0171	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/23/84-05/23/84	0	1	
WHIS0173	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/21/68-05/21/68	0	1	
WHIS0187	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/30/83-05/08/84	0	18	
WHIS0189	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/01/83-09/01/83	0	1	
WHIS0195	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/13/97-01/06/98	0	3	
WHIS0197	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/07/97-01/06/98	0	4	
WHIS0198	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/26/52-06/26/52	0	1	
WHIS0002	No	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/11/52-09/19/88	36	153	
WHIS0003	No	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/10/60-09/02/66	5	72	
WHIS0004	No	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/07/97-01/05/98	0	4	
WHIS0005	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/03/84-08/03/84	0	1	
WHIS0007	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/07/97-01/06/98	0	4	
WHIS0008	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	11/18/96-11/20/98	2	7	
WHIS0009	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/02/73-07/13/84	11	85	
WHIS0010	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/03/84-08/03/84	0	1	
WHIS0011	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/03/84-08/03/84	0	1	
WHIS0012	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/02/73-07/18/80	7	82	
WHIS0013	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/10/84-08/10/84	0	1	
WHIS0015	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/07/97-01/06/98	0	5	
WHIS0016	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/04/73-07/18/80	7	90	
WHIS0018	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/17/98-08/17/98	0	1	
WHIS0020	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/20/84-07/20/84	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 11/20/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
WHIS0021	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/15/86-07/31/90	4	5	
WHIS0022	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/05/76-07/04/77	0	4	
WHIS0023	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/20/84-07/20/84	0	1	
WHIS0024	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/15/86-07/07/87	0	3	
WHIS0027	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/10/75-03/13/81	5	2	
WHIS0028	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/21/78-08/19/85	7	8	
WHIS0029	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/05/70-06/02/94	23	1138	
WHIS0030	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/22/86-07/18/96	9	11	
WHIS0031	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/14/63-07/13/76	13	3	
WHIS0032	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/27/65-10/18/65	0	398	
WHIS0033	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/08/97-01/07/98	0	259	
WHIS0034	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/15/86-07/31/90	4	5	
WHIS0035	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	04/26/78-10/18/91	13	1130	
WHIS0036	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/07/87-07/17/91	4	4	
WHIS0037	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/15/86-07/17/91	5	7	
WHIS0038	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/10/84-08/10/84	0	1	
WHIS0039	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/15/86-07/07/87	0	3	
WHIS0040	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/05/76-07/04/77	0	4	
WHIS0041	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	03/17/80-09/09/82	2	2	
WHIS0042	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	04/16/84-02/11/91	6	4	
WHIS0043	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/15/86-07/07/87	0	3	
WHIS0044	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/15/73-01/23/80	6	92	
WHIS0045	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	11/15/62-11/15/62	0	1	
WHIS0046	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/24/68-05/24/68	0	1	
WHIS0047	No	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/04/84-04/06/89	4	100	
WHIS0048	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/31/90-07/17/91	0	4	
WHIS0050	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/06/93-08/16/94	1	331	
WHIS0052	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/21/88-10/18/91	3	161	
WHIS0053	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/15/86-07/17/91	5	7	
WHIS0054	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/23/89-07/23/96	7	5	
WHIS0055	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/05/76-07/05/76	0	2	
WHIS0057	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/15/86-07/17/91	5	7	
WHIS0058	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	01/31/79-01/31/79	0	1	
WHIS0059	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/05/76-07/04/77	0	4	
WHIS0060	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/21/78-09/22/86	8	7	
WHIS0062	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	04/21/93-08/16/94	1	414	
WHIS0063	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	03/17/80-04/10/87	7	4	
WHIS0064	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/07/87-07/17/91	4	6	
WHIS0065	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	04/21/93-08/16/94	1	261	
WHIS0066	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/15/86-07/07/87	0	3	
WHIS0067	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/13/97-01/06/98	0	6	
WHIS0068	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/31/90-07/31/90	0	2	
WHIS0069	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/15/86-07/31/90	4	5	
WHIS0070	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/31/90-07/17/91	0	4	
WHIS0071	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/15/86-07/31/90	4	5	
WHIS0072	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/05/76-07/04/77	0	4	
WHIS0073	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/15/86-07/31/90	4	5	
WHIS0074	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/15/73-01/23/80	6	48	
WHIS0075	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	04/21/93-08/16/94	1	298	
WHIS0076	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	01/24/72-10/18/91	19	1508	
WHIS0077	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/17/91-07/17/91	0	2	
WHIS0078	No	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/15/86-03/20/93	7	131	
WHIS0079	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/15/86-07/07/87	0	3	
WHIS0080	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/17/91-07/17/91	0	2	
WHIS0081	No	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	01/09/73-04/06/79	6	51	
WHIS0082	No	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	03/24/69-03/31/94	25	2689	
WHIS0083	No	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	01/21/76-03/19/93	17	203	
WHIS0084	No	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	11/21/69-03/31/94	24	2362	
WHIS0086	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	12/05/95-12/05/95	0	1	
WHIS0087	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	04/03/86-12/10/86	0	3	
WHIS0088	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/15/86-07/31/90	4	5	
WHIS0089	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	04/21/93-08/16/94	1	212	
WHIS0091	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/15/86-07/31/90	4	5	
WHIS0092	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	11/14/62-11/14/62	0	1	
WHIS0093	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/15/73-01/23/80	6	89	
WHIS0094	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/15/86-07/17/91	5	7	
WHIS0095	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/31/90-07/31/90	0	2	
WHIS0096	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/15/86-07/07/87	0	3	
WHIS0097	No	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	01/04/84-06/28/84	0	13	
WHIS0100	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/31/90-07/31/90	0	2	
WHIS0101	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/04/77-07/04/77	0	1	
WHIS0102	No	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	01/04/84-06/05/84	0	21	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 11/20/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
WHIS0105	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	04/21/93-08/16/94	1	284	
WHIS0106	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/23/68-05/23/68	0	1	
WHIS0107	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/15/86-07/17/91	5	7	
WHIS0108	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/05/76-07/04/77	0	4	
WHIS0109	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/15/75-08/16/79	4	34	
WHIS0110	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/07/81-10/07/81	0	1	
WHIS0111	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/07/81-10/07/81	0	1	
WHIS0112	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/20/77-06/20/77	0	1	
WHIS0113	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	11/13/97-01/06/98	0	4	
WHIS0114	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	04/21/93-08/16/94	1	10	
WHIS0115	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/07/87-07/07/87	0	2	
WHIS0116	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/05/76-07/05/76	0	2	
WHIS0117	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/06/93-08/16/94	1	218	
WHIS0119	No	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/13/84-06/13/84	0	1	
WHIS0120	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	03/17/80-10/07/81	1	2	
WHIS0121	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/31/90-07/31/90	0	2	
WHIS0122	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/15/86-07/17/91	5	11	
WHIS0123	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/05/76-07/04/77	0	4	
WHIS0124	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	04/16/84-12/05/95	11	3	
WHIS0125	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/04/77-07/04/77	0	1	
WHIS0126	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/05/75-06/05/75	0	1	
WHIS0127	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	03/07/85-02/27/92	6	3	
WHIS0128	No	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/13/84-06/13/84	0	1	
WHIS0129	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/15/86-07/17/91	5	7	
WHIS0130	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/19/98-09/08/98	0	8	
WHIS0131	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	11/15/62-11/15/62	0	1	
WHIS0132	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/07/87-07/31/90	3	4	
WHIS0133	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/07/87-07/17/91	4	6	
WHIS0134	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/04/77-07/04/77	0	2	
WHIS0135	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/31/84-08/31/84	0	1	
WHIS0136	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/25/90-07/25/90	0	1	
WHIS0137	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	03/02/73-01/23/80	6	33	
WHIS0138	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	04/21/93-08/16/94	1	10	
WHIS0139	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/05/75-06/05/75	0	1	
WHIS0140	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/11/80-07/11/80	0	1	
WHIS0141	No	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/23/84-05/23/84	0	1	
WHIS0142	No	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/29/83-06/13/84	0	4	
WHIS0143	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	01/20/76-01/17/80	3	44	
WHIS0144	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/31/84-08/31/84	0	1	
WHIS0145	No	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/29/83-05/23/84	0	2	
WHIS0146	No	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/13/84-06/13/84	0	1	
WHIS0147	No	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/13/84-06/13/84	0	1	
WHIS0148	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/15/73-01/23/80	6	91	
WHIS0149	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/24/68-05/24/68	0	1	
WHIS0150	No	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/23/84-05/23/84	0	1	
WHIS0151	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	01/14/73-01/17/80	7	82	
WHIS0152	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/07/97-01/06/98	0	5	
WHIS0153	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/05/75-06/05/75	0	1	
WHIS0154	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/14/63-03/03/83	19	67	
WHIS0155	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/19/90-07/19/90	0	1	
WHIS0156	No	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/13/84-06/13/84	0	1	
WHIS0157	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/07/97-01/06/98	0	5	
WHIS0158	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/20/80-09/10/81	0	5	
WHIS0160	No	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/13/84-06/13/84	0	1	
WHIS0161	No	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/13/84-06/13/84	0	1	
WHIS0162	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/15/73-07/11/80	7	92	
WHIS0163	No	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/26/83-06/05/84	0	22	
WHIS0164	No	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/09/52-04/27/55	2	2	
WHIS0165	No	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/26/52-06/26/52	0	1	
WHIS0166	No	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/23/84-05/23/84	0	1	
WHIS0167	No	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/30/84-05/30/84	0	1	
WHIS0168	No	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/30/84-05/30/84	0	1	
WHIS0169	No	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/30/84-06/13/84	0	2	
WHIS0170	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/15/73-07/11/80	7	93	
WHIS0171	No	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/23/84-05/23/84	0	1	
WHIS0172	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	11/17/82-11/17/82	0	1	
WHIS0173	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/21/68-05/21/68	0	1	
WHIS0174	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	01/15/76-01/15/76	0	2	
WHIS0175	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/03/72-09/27/84	12	98	
WHIS0176	No	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/30/84-05/30/84	0	1	
WHIS0177	No	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	01/23/81-01/23/81	0	1	
WHIS0178	Yes	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/20/80-09/10/81	0	4	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 11/20/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
WHIS0179	No	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/20/80-09/10/81	0	5	
WHIS0182	No	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/20/80-09/10/81	0	5	
WHIS0183	No	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	01/14/76-01/14/76	0	1	
WHIS0187	No	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	12/30/83-05/08/84	0	18	
WHIS0189	No	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/01/83-09/01/83	0	1	
WHIS0194	No	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/01/57-09/01/67	10	291	
WHIS0195	No	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/07/97-01/06/98	0	4	
WHIS0197	No	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/07/97-01/06/98	0	4	
WHIS0198	No	00097	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/26/52-06/26/52	0	1	
WHIS0004	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	10/07/97-01/05/98	0	3	
WHIS0007	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	10/07/97-01/06/98	0	4	
WHIS0015	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	10/07/97-01/06/98	0	4	
WHIS0029	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	10/05/70-06/02/94	23	1100	T,A,S
WHIS0033	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	10/08/97-01/07/98	0	256	
WHIS0050	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/22/93-08/16/94	1	322	
WHIS0062	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/22/93-08/16/94	1	328	
WHIS0065	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/22/93-08/16/94	1	250	
WHIS0075	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/22/93-08/16/94	1	235	
WHIS0089	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/22/93-08/16/94	1	202	
WHIS0105	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/22/93-08/16/94	1	220	
WHIS0117	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/22/93-08/16/94	1	209	
WHIS0152	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	10/07/97-01/06/98	0	4	
WHIS0157	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	10/07/97-01/06/98	0	4	
WHIS0195	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	10/07/97-01/06/98	0	4	
WHIS0197	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	10/07/97-01/06/98	0	4	
WHIS0002	No	00300	OXYGEN, DISSOLVED MG/L	01/27/55-09/19/88	33	214	T,A,S
WHIS0009	Yes	00300	OXYGEN, DISSOLVED MG/L	07/02/73-07/13/84	11	84	T,S
WHIS0011	Yes	00300	OXYGEN, DISSOLVED MG/L	08/03/84-08/03/84	0	1	
WHIS0012	Yes	00300	OXYGEN, DISSOLVED MG/L	07/02/73-07/18/80	7	79	
WHIS0013	Yes	00300	OXYGEN, DISSOLVED MG/L	08/10/84-08/10/84	0	1	
WHIS0016	Yes	00300	OXYGEN, DISSOLVED MG/L	02/04/73-07/18/80	7	90	
WHIS0020	Yes	00300	OXYGEN, DISSOLVED MG/L	07/20/84-07/20/84	0	1	
WHIS0023	Yes	00300	OXYGEN, DISSOLVED MG/L	07/20/84-07/20/84	0	1	
WHIS0031	Yes	00300	OXYGEN, DISSOLVED MG/L	06/29/77-06/29/77	0	2	
WHIS0032	Yes	00300	OXYGEN, DISSOLVED MG/L	05/27/65-10/18/65	0	35	
WHIS0038	Yes	00300	OXYGEN, DISSOLVED MG/L	08/10/84-08/10/84	0	1	
WHIS0044	Yes	00300	OXYGEN, DISSOLVED MG/L	03/02/73-01/23/80	6	91	
WHIS0074	Yes	00300	OXYGEN, DISSOLVED MG/L	03/02/73-01/23/80	6	45	
WHIS0093	Yes	00300	OXYGEN, DISSOLVED MG/L	03/02/73-01/23/80	6	88	
WHIS0109	Yes	00300	OXYGEN, DISSOLVED MG/L	02/24/76-08/16/79	3	19	
WHIS0135	Yes	00300	OXYGEN, DISSOLVED MG/L	08/31/84-08/31/84	0	1	
WHIS0137	Yes	00300	OXYGEN, DISSOLVED MG/L	03/02/73-01/23/80	6	29	
WHIS0140	Yes	00300	OXYGEN, DISSOLVED MG/L	07/11/80-07/11/80	0	1	
WHIS0143	Yes	00300	OXYGEN, DISSOLVED MG/L	01/20/76-01/17/80	3	44	
WHIS0144	Yes	00300	OXYGEN, DISSOLVED MG/L	08/31/84-08/31/84	0	1	
WHIS0148	Yes	00300	OXYGEN, DISSOLVED MG/L	03/02/73-01/23/80	6	90	
WHIS0151	Yes	00300	OXYGEN, DISSOLVED MG/L	01/14/73-01/17/80	7	82	
WHIS0154	Yes	00300	OXYGEN, DISSOLVED MG/L	06/22/77-08/21/79	2	61	
WHIS0162	Yes	00300	OXYGEN, DISSOLVED MG/L	03/02/73-07/11/80	7	91	
WHIS0170	Yes	00300	OXYGEN, DISSOLVED MG/L	03/02/73-07/11/80	7	92	
WHIS0175	Yes	00300	OXYGEN, DISSOLVED MG/L	07/03/72-09/27/84	12	92	T,S
WHIS0029	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/17/91-06/02/94	3	320	
WHIS0050	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	07/22/93-08/16/94	1	322	
WHIS0062	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	07/22/93-08/16/94	1	328	
WHIS0065	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	07/22/93-08/16/94	1	250	
WHIS0075	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	07/22/93-08/16/94	1	235	
WHIS0089	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	07/22/93-08/16/94	1	202	
WHIS0105	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	07/22/93-08/16/94	1	220	
WHIS0117	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	07/22/93-08/16/94	1	209	
WHIS0002	No	00310	BOD, 5 DAY, 20 DEG C MG/L	05/20/87-09/19/88	1	3	
WHIS0008	Yes	00335	COD, .025N K2CR2O7 MG/L	11/18/96-11/20/98	2	7	
WHIS0136	Yes	00340	COD, .25N K2CR2O7 MG/L	07/25/90-07/25/90	0	1	
WHIS0155	Yes	00340	COD, .25N K2CR2O7 MG/L	07/19/90-07/19/90	0	1	
WHIS0002	No	00400	PH (STANDARD UNITS)	01/27/55-09/19/88	33	208	T,A,S
WHIS0003	No	00400	PH (STANDARD UNITS)	10/10/60-09/02/66	5	71	
WHIS0011	Yes	00400	PH (STANDARD UNITS)	08/03/84-08/03/84	0	1	
WHIS0020	Yes	00400	PH (STANDARD UNITS)	07/20/84-07/20/84	0	1	
WHIS0023	Yes	00400	PH (STANDARD UNITS)	07/20/84-07/20/84	0	1	
WHIS0031	Yes	00400	PH (STANDARD UNITS)	06/29/77-09/30/86	9	13	
WHIS0032	Yes	00400	PH (STANDARD UNITS)	05/27/65-10/18/65	0	35	
WHIS0045	Yes	00400	PH (STANDARD UNITS)	11/15/62-11/15/62	0	1	
WHIS0046	Yes	00400	PH (STANDARD UNITS)	05/24/68-05/24/68	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 11/20/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
WHIS0092	Yes	00400	PH (STANDARD UNITS)	11/14/62-11/14/62	0	1	
WHIS0097	No	00400	PH (STANDARD UNITS)	01/04/84-06/28/84	0	12	
WHIS0102	No	00400	PH (STANDARD UNITS)	01/04/84-06/05/84	0	21	
WHIS0106	Yes	00400	PH (STANDARD UNITS)	05/23/68-05/23/68	0	1	
WHIS0131	Yes	00400	PH (STANDARD UNITS)	11/15/62-11/15/62	0	1	
WHIS0136	Yes	00400	PH (STANDARD UNITS)	07/25/90-07/25/90	0	1	
WHIS0141	No	00400	PH (STANDARD UNITS)	05/23/84-05/23/84	0	1	
WHIS0142	No	00400	PH (STANDARD UNITS)	09/29/83-05/30/84	0	2	
WHIS0145	No	00400	PH (STANDARD UNITS)	09/29/83-05/23/84	0	2	
WHIS0149	Yes	00400	PH (STANDARD UNITS)	05/24/68-05/24/68	0	1	
WHIS0154	Yes	00400	PH (STANDARD UNITS)	06/22/77-03/03/83	5	65	
WHIS0155	Yes	00400	PH (STANDARD UNITS)	07/19/90-07/19/90	0	1	
WHIS0158	Yes	00400	PH (STANDARD UNITS)	09/20/80-09/10/81	0	5	
WHIS0163	No	00400	PH (STANDARD UNITS)	09/26/83-06/05/84	0	21	
WHIS0167	No	00400	PH (STANDARD UNITS)	05/30/84-05/30/84	0	1	
WHIS0168	No	00400	PH (STANDARD UNITS)	05/30/84-05/30/84	0	1	
WHIS0169	No	00400	PH (STANDARD UNITS)	05/30/84-05/30/84	0	1	
WHIS0173	Yes	00400	PH (STANDARD UNITS)	05/21/68-05/21/68	0	1	
WHIS0175	Yes	00400	PH (STANDARD UNITS)	09/20/80-09/27/84	4	6	
WHIS0176	No	00400	PH (STANDARD UNITS)	05/30/84-05/30/84	0	1	
WHIS0177	No	00400	PH (STANDARD UNITS)	01/23/81-01/23/81	0	1	
WHIS0178	Yes	00400	PH (STANDARD UNITS)	09/20/80-09/10/81	0	4	
WHIS0179	No	00400	PH (STANDARD UNITS)	09/20/80-09/10/81	0	5	
WHIS0182	No	00400	PH (STANDARD UNITS)	09/20/80-09/10/81	0	5	
WHIS0187	No	00400	PH (STANDARD UNITS)	12/30/83-05/08/84	0	17	
WHIS0189	No	00400	PH (STANDARD UNITS)	09/01/83-09/01/83	0	1	
WHIS0174	Yes	00402	SPECIFIC CONDUCTANCE,NON-TEMPERATURE CORR.UMHOS/CM	01/15/76-01/15/76	0	2	
WHIS0183	No	00402	SPECIFIC CONDUCTANCE,NON-TEMPERATURE CORR.UMHOS/CM	01/14/76-01/14/76	0	1	
WHIS0002	No	00403	PH, LAB, STANDARD UNITS SU	02/11/52-09/19/88	36	100	T,S
WHIS0027	Yes	00403	PH, LAB, STANDARD UNITS SU	07/10/75-03/13/81	5	2	
WHIS0028	Yes	00403	PH, LAB, STANDARD UNITS SU	06/21/78-06/11/85	6	5	
WHIS0030	Yes	00403	PH, LAB, STANDARD UNITS SU	09/22/86-02/16/94	7	6	
WHIS0031	Yes	00403	PH, LAB, STANDARD UNITS SU	05/14/63-12/17/81	18	4	
WHIS0041	Yes	00403	PH, LAB, STANDARD UNITS SU	03/17/80-09/09/82	2	2	
WHIS0042	Yes	00403	PH, LAB, STANDARD UNITS SU	04/16/84-02/11/91	6	3	
WHIS0054	Yes	00403	PH, LAB, STANDARD UNITS SU	07/10/92-07/23/96	4	2	
WHIS0058	Yes	00403	PH, LAB, STANDARD UNITS SU	01/31/79-01/31/79	0	1	
WHIS0060	Yes	00403	PH, LAB, STANDARD UNITS SU	06/21/78-09/22/86	8	6	
WHIS0063	Yes	00403	PH, LAB, STANDARD UNITS SU	03/17/80-04/10/87	7	4	
WHIS0067	Yes	00403	PH, LAB, STANDARD UNITS SU	08/13/97-01/06/98	0	6	
WHIS0078	No	00403	PH, LAB, STANDARD UNITS SU	02/15/86-03/20/93	7	131	
WHIS0082	No	00403	PH, LAB, STANDARD UNITS SU	03/17/78-03/31/94	16	1249	T,A,S
WHIS0083	No	00403	PH, LAB, STANDARD UNITS SU	11/24/81-03/19/93	11	177	T,S
WHIS0084	No	00403	PH, LAB, STANDARD UNITS SU	03/19/79-03/31/94	15	576	T,A,S
WHIS0087	Yes	00403	PH, LAB, STANDARD UNITS SU	04/03/86-04/03/86	0	1	
WHIS0110	Yes	00403	PH, LAB, STANDARD UNITS SU	10/07/81-10/07/81	0	1	
WHIS0111	Yes	00403	PH, LAB, STANDARD UNITS SU	10/07/81-10/07/81	0	1	
WHIS0120	Yes	00403	PH, LAB, STANDARD UNITS SU	03/17/80-10/07/81	1	2	
WHIS0124	Yes	00403	PH, LAB, STANDARD UNITS SU	04/16/84-04/03/86	1	2	
WHIS0127	Yes	00403	PH, LAB, STANDARD UNITS SU	03/07/85-02/27/92	6	3	
WHIS0154	Yes	00403	PH, LAB, STANDARD UNITS SU	05/14/63-03/03/83	19	31	S
WHIS0164	No	00403	PH, LAB, STANDARD UNITS SU	06/09/52-04/27/55	2	2	
WHIS0165	No	00403	PH, LAB, STANDARD UNITS SU	06/26/52-06/26/52	0	1	
WHIS0198	No	00403	PH, LAB, STANDARD UNITS SU	06/26/52-06/26/52	0	1	
WHIS0004	No	00406	PH, FIELD, STANDARD UNITS SU	10/07/97-01/05/98	0	4	
WHIS0007	Yes	00406	PH, FIELD, STANDARD UNITS SU	10/07/97-01/06/98	0	4	
WHIS0008	Yes	00406	PH, FIELD, STANDARD UNITS SU	11/18/96-09/16/98	1	6	
WHIS0015	Yes	00406	PH, FIELD, STANDARD UNITS SU	10/07/97-01/06/98	0	4	
WHIS0029	Yes	00406	PH, FIELD, STANDARD UNITS SU	10/05/70-06/02/94	23	342	T,A,S
WHIS0033	Yes	00406	PH, FIELD, STANDARD UNITS SU	10/08/97-01/07/98	0	82	
WHIS0050	Yes	00406	PH, FIELD, STANDARD UNITS SU	07/22/93-08/16/94	1	241	
WHIS0062	Yes	00406	PH, FIELD, STANDARD UNITS SU	07/22/93-08/16/94	1	246	
WHIS0065	Yes	00406	PH, FIELD, STANDARD UNITS SU	07/22/93-08/16/94	1	192	
WHIS0075	Yes	00406	PH, FIELD, STANDARD UNITS SU	07/22/93-08/16/94	1	179	
WHIS0089	Yes	00406	PH, FIELD, STANDARD UNITS SU	07/22/93-08/16/94	1	163	
WHIS0105	Yes	00406	PH, FIELD, STANDARD UNITS SU	07/22/93-08/16/94	1	165	
WHIS0113	Yes	00406	PH, FIELD, STANDARD UNITS SU	11/13/97-01/06/98	0	3	
WHIS0117	Yes	00406	PH, FIELD, STANDARD UNITS SU	07/22/93-08/16/94	1	156	
WHIS0152	Yes	00406	PH, FIELD, STANDARD UNITS SU	10/07/97-01/06/98	0	4	
WHIS0157	Yes	00406	PH, FIELD, STANDARD UNITS SU	10/07/97-01/06/98	0	4	
WHIS0195	No	00406	PH, FIELD, STANDARD UNITS SU	10/07/97-01/06/98	0	4	
WHIS0197	No	00406	PH, FIELD, STANDARD UNITS SU	10/07/97-01/06/98	0	4	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 11/20/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
WHIS0002	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/15/65-09/20/78	13	51	T,S
WHIS0003	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/09/61-11/09/61	0	1	
WHIS0004	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/07/97-01/05/98	0	4	
WHIS0007	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/07/97-01/06/98	0	4	
WHIS0015	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/13/97-01/06/98	0	4	
WHIS0029	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/17/81-08/30/90	8	99	T,S
WHIS0030	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/22/86-02/16/94	7	6	
WHIS0033	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/08/97-12/02/97	0	66	
WHIS0041	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/17/80-03/17/80	0	1	
WHIS0042	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/10/87-02/11/91	3	2	
WHIS0054	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/10/92-07/23/96	4	2	
WHIS0060	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/21/78-09/22/86	8	6	
WHIS0063	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/17/80-04/10/87	7	3	
WHIS0067	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/13/97-01/06/98	0	6	
WHIS0110	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/07/81-10/07/81	0	1	
WHIS0113	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/13/97-01/06/98	0	4	
WHIS0120	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/17/80-10/07/81	1	2	
WHIS0127	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	02/10/89-02/27/92	3	2	
WHIS0152	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/07/97-01/06/98	0	5	
WHIS0154	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/10/78-01/10/78	0	1	
WHIS0157	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/07/97-01/06/98	0	5	
WHIS0195	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/13/97-01/06/98	0	3	
WHIS0197	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/07/97-01/06/98	0	4	
WHIS0027	Yes	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	07/10/75-03/13/81	5	2	
WHIS0028	Yes	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	06/21/78-03/13/81	2	3	
WHIS0058	Yes	00420	ALKALINITY, HYDROXIDE (MG/L AS CACO3)	01/31/79-01/31/79	0	1	
WHIS0111	Yes	00420	ALKALINITY, HYDROXIDE (MG/L AS CACO3)	10/07/81-10/07/81	0	1	
WHIS0027	Yes	00425	ALKALINITY, BICARBONATE (MG/L AS CACO3)	07/10/75-03/13/81	5	2	
WHIS0028	Yes	00425	ALKALINITY, BICARBONATE (MG/L AS CACO3)	06/21/78-06/11/85	6	5	
WHIS0058	Yes	00425	ALKALINITY, BICARBONATE (MG/L AS CACO3)	01/31/79-01/31/79	0	1	
WHIS0111	Yes	00425	ALKALINITY, BICARBONATE (MG/L AS CACO3)	10/07/81-10/07/81	0	1	
WHIS0027	Yes	00430	ALKALINITY, CARBONATE (MG/L AS CACO3)	03/13/81-03/13/81	0	1	
WHIS0058	Yes	00430	ALKALINITY, CARBONATE (MG/L AS CACO3)	01/31/79-01/31/79	0	1	
WHIS0111	Yes	00430	ALKALINITY, CARBONATE (MG/L AS CACO3)	10/07/81-10/07/81	0	1	
WHIS0029	Yes	00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/10/82-06/02/94	11	63	T,S
WHIS0003	No	00440	BICARBONATE ION (MG/L AS HCO3)	10/10/60-09/02/66	5	71	
WHIS0027	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	07/10/75-03/13/81	5	2	
WHIS0028	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	06/21/78-06/11/85	6	5	
WHIS0030	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	09/22/86-02/16/94	7	6	
WHIS0041	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	03/17/80-09/09/82	2	2	
WHIS0042	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	04/16/84-02/11/91	6	3	
WHIS0045	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	11/15/62-11/15/62	0	1	
WHIS0046	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	05/24/68-05/24/68	0	1	
WHIS0054	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	07/10/92-07/10/92	0	1	
WHIS0060	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	06/21/78-09/22/86	8	6	
WHIS0063	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	03/17/80-04/10/87	7	4	
WHIS0087	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	04/03/86-04/03/86	0	1	
WHIS0092	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	11/14/62-11/14/62	0	1	
WHIS0106	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	05/23/68-05/23/68	0	1	
WHIS0110	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	10/07/81-10/07/81	0	1	
WHIS0111	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	10/07/81-10/07/81	0	1	
WHIS0120	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	03/17/80-10/07/81	1	2	
WHIS0124	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	04/16/84-04/03/86	1	2	
WHIS0127	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	03/07/85-02/27/92	6	3	
WHIS0131	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	11/15/62-11/15/62	0	1	
WHIS0149	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	05/24/68-05/24/68	0	1	
WHIS0173	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	05/21/68-05/21/68	0	1	
WHIS0003	No	00445	CARBONATE ION (MG/L AS CO3)	10/10/63-09/02/66	2	23	
WHIS0027	Yes	00445	CARBONATE ION (MG/L AS CO3)	07/10/75-07/10/75	0	1	
WHIS0028	Yes	00445	CARBONATE ION (MG/L AS CO3)	06/21/78-06/11/85	6	5	
WHIS0030	Yes	00445	CARBONATE ION (MG/L AS CO3)	09/22/86-02/16/94	7	5	
WHIS0041	Yes	00445	CARBONATE ION (MG/L AS CO3)	03/17/80-09/09/82	2	2	
WHIS0042	Yes	00445	CARBONATE ION (MG/L AS CO3)	04/16/84-02/11/91	6	3	
WHIS0045	Yes	00445	CARBONATE ION (MG/L AS CO3)	11/15/62-11/15/62	0	1	
WHIS0046	Yes	00445	CARBONATE ION (MG/L AS CO3)	05/24/68-05/24/68	0	1	
WHIS0054	Yes	00445	CARBONATE ION (MG/L AS CO3)	07/10/92-07/10/92	0	1	
WHIS0060	Yes	00445	CARBONATE ION (MG/L AS CO3)	06/21/78-09/22/86	8	6	
WHIS0063	Yes	00445	CARBONATE ION (MG/L AS CO3)	03/17/80-04/10/87	7	4	
WHIS0087	Yes	00445	CARBONATE ION (MG/L AS CO3)	04/03/86-04/03/86	0	1	
WHIS0092	Yes	00445	CARBONATE ION (MG/L AS CO3)	11/14/62-11/14/62	0	1	
WHIS0106	Yes	00445	CARBONATE ION (MG/L AS CO3)	05/23/68-05/23/68	0	1	
WHIS0110	Yes	00445	CARBONATE ION (MG/L AS CO3)	10/07/81-10/07/81	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 11/20/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
WHIS0111	Yes	00445	CARBONATE ION (MG/L AS CO3)	10/07/81-10/07/81	0	1	
WHIS0120	Yes	00445	CARBONATE ION (MG/L AS CO3)	03/17/80-10/07/81	1	2	
WHIS0124	Yes	00445	CARBONATE ION (MG/L AS CO3)	04/16/84-04/03/86	1	2	
WHIS0127	Yes	00445	CARBONATE ION (MG/L AS CO3)	03/07/85-02/27/92	6	3	
WHIS0131	Yes	00445	CARBONATE ION (MG/L AS CO3)	11/15/62-11/15/62	0	1	
WHIS0149	Yes	00445	CARBONATE ION (MG/L AS CO3)	05/24/68-05/24/68	0	1	
WHIS0173	Yes	00445	CARBONATE ION (MG/L AS CO3)	05/21/68-05/21/68	0	1	
WHIS0027	Yes	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	03/13/81-03/13/81	0	1	
WHIS0028	Yes	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	06/21/78-06/11/85	6	5	
WHIS0008	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/18/96-02/18/98	1	4	
WHIS0067	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/02/97-01/06/98	0	4	
WHIS0084	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/23/86-01/23/86	0	6	
WHIS0097	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/04/84-06/28/84	0	13	
WHIS0102	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/04/84-06/05/84	0	20	
WHIS0119	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/13/84-06/13/84	0	1	
WHIS0128	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/13/84-06/13/84	0	1	
WHIS0141	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/23/84-05/23/84	0	1	
WHIS0142	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/23/84-06/13/84	0	3	
WHIS0145	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/23/84-05/23/84	0	1	
WHIS0146	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/13/84-06/13/84	0	1	
WHIS0147	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/13/84-06/13/84	0	1	
WHIS0150	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/23/84-05/23/84	0	1	
WHIS0156	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/13/84-06/13/84	0	1	
WHIS0160	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/13/84-06/13/84	0	1	
WHIS0161	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/13/84-06/13/84	0	1	
WHIS0163	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/04/84-06/05/84	0	21	
WHIS0166	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/23/84-05/23/84	0	1	
WHIS0167	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/30/84-05/30/84	0	1	
WHIS0168	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/30/84-05/30/84	0	1	
WHIS0169	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/30/84-06/13/84	0	2	
WHIS0171	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/23/84-05/23/84	0	1	
WHIS0176	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/30/84-05/30/84	0	1	
WHIS0187	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/30/83-05/08/84	0	18	
WHIS0015	Yes	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	10/07/97-12/04/97	0	3	
WHIS0029	Yes	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	09/20/77-06/02/94	16	30	
WHIS0033	Yes	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	10/08/97-12/02/97	0	6	
WHIS0113	Yes	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	11/13/97-12/03/97	0	2	
WHIS0152	Yes	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	10/07/97-12/04/97	0	3	
WHIS0157	Yes	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	10/07/97-12/04/97	0	3	
WHIS0195	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	10/07/97-12/04/97	0	3	
WHIS0197	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	10/07/97-12/04/97	0	3	
WHIS0002	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/08/77-09/14/77	0	2	
WHIS0008	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	11/18/96-11/20/98	2	7	
WHIS0154	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/08/77-09/14/77	0	2	
WHIS0029	Yes	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	06/02/94-06/02/94	0	1	
WHIS0002	No	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	04/18/74-04/11/78	3	5	
WHIS0029	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	06/29/77-06/02/94	16	8	
WHIS0154	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	07/08/77-01/10/78	0	4	
WHIS0009	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/02/73-01/17/80	6	82	
WHIS0012	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/02/73-01/17/80	6	77	
WHIS0016	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/04/73-01/17/80	6	88	
WHIS0030	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/18/96-07/18/96	0	1	
WHIS0044	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-01/23/80	6	92	
WHIS0074	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-01/23/80	6	48	
WHIS0086	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	12/05/95-12/05/95	0	1	
WHIS0093	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-01/23/80	6	88	
WHIS0109	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/15/75-08/16/79	4	33	
WHIS0124	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	12/05/95-12/05/95	0	1	
WHIS0126	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	06/05/75-06/05/75	0	1	
WHIS0137	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/02/73-01/23/80	6	33	
WHIS0139	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	06/05/75-06/05/75	0	1	
WHIS0140	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/11/80-07/11/80	0	1	
WHIS0143	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	01/20/76-01/17/80	3	44	
WHIS0148	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-01/23/80	6	91	
WHIS0151	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	01/14/73-01/17/80	7	81	
WHIS0153	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	06/05/75-06/05/75	0	1	
WHIS0162	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-07/11/80	7	92	
WHIS0170	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-07/11/80	7	93	
WHIS0175	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/03/72-07/11/80	8	92	T,S
WHIS0002	No	00629	NITROGEN, ORGANIC KJELDAHL, TOTAL (MG/L AS N)	09/14/77-09/14/77	0	1	
WHIS0031	Yes	00629	NITROGEN, ORGANIC KJELDAHL, TOTAL (MG/L AS N)	09/20/77-06/01/78	0	5	
WHIS0154	Yes	00629	NITROGEN, ORGANIC KJELDAHL, TOTAL (MG/L AS N)	09/14/77-09/14/77	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 11/20/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
WHIS0008	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	11/18/96-09/16/98	1	6	
WHIS0015	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/07/97-12/04/97	0	3	
WHIS0029	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/19/81-09/07/93	12	26	
WHIS0033	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/08/97-12/02/97	0	6	
WHIS0062	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	04/21/93-08/16/94	1	135	
WHIS0075	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	04/21/93-08/16/94	1	100	
WHIS0105	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	04/21/93-08/16/94	1	98	
WHIS0113	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	11/13/97-12/03/97	0	2	
WHIS0114	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	04/21/93-07/27/94	1	8	
WHIS0138	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	04/21/93-08/16/94	1	10	
WHIS0152	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/07/97-12/04/97	0	3	
WHIS0154	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	01/08/79-03/03/83	4	3	
WHIS0157	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/07/97-12/04/97	0	3	
WHIS0195	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/07/97-12/04/97	0	3	
WHIS0197	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/07/97-12/04/97	0	3	
WHIS0002	No	00635	NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	04/18/74-09/19/88	14	6	
WHIS0029	Yes	00635	NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	06/29/77-06/02/94	16	29	
WHIS0031	Yes	00635	NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	09/20/77-06/01/78	0	5	
WHIS0154	Yes	00635	NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	08/11/77-03/03/83	5	6	
WHIS0009	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/05/74-08/15/76	2	30	
WHIS0012	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	11/15/73-08/15/76	2	31	
WHIS0016	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/01/74-08/15/76	2	30	
WHIS0044	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/01/74-08/15/76	2	30	
WHIS0074	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/04/74-04/14/76	2	18	
WHIS0093	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	06/18/73-07/14/76	3	29	
WHIS0109	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	05/15/75-08/14/76	1	14	
WHIS0126	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	06/05/75-06/05/75	0	1	
WHIS0137	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/05/74-04/14/76	2	9	
WHIS0139	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	06/05/75-06/05/75	0	1	
WHIS0143	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	01/20/76-08/14/76	0	8	
WHIS0148	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/04/74-08/14/76	2	30	
WHIS0151	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/04/74-08/14/76	2	30	
WHIS0153	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	06/05/75-06/05/75	0	1	
WHIS0162	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/04/74-08/14/76	2	30	
WHIS0170	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/06/74-08/14/76	2	31	
WHIS0175	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/04/74-08/14/76	2	30	
WHIS0009	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	07/02/73-08/15/76	3	46	
WHIS0012	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	07/02/73-08/15/76	3	42	
WHIS0016	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	02/04/73-08/15/76	3	46	
WHIS0044	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	07/02/73-08/15/76	3	47	
WHIS0067	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	08/13/97-01/06/98	0	6	
WHIS0074	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	11/01/73-04/14/76	2	26	
WHIS0093	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	07/02/73-07/14/76	3	44	
WHIS0109	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	05/15/75-08/14/76	1	14	
WHIS0126	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	06/05/75-06/05/75	0	1	
WHIS0137	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	07/03/73-04/14/76	2	17	
WHIS0139	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	06/05/75-06/05/75	0	1	
WHIS0143	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	01/20/76-08/14/76	0	8	
WHIS0148	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	07/02/73-08/14/76	3	46	
WHIS0151	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	01/14/73-08/14/76	3	46	
WHIS0153	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	06/05/75-06/05/75	0	1	
WHIS0162	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	07/03/73-08/14/76	3	46	
WHIS0170	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	07/03/73-08/14/76	3	47	
WHIS0175	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	07/03/72-08/14/76	4	46	
WHIS0002	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/18/74-04/11/78	3	4	
WHIS0008	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/18/96-09/16/98	1	6	
WHIS0015	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/07/97-12/04/97	0	3	
WHIS0029	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/29/77-06/02/94	16	34	T
WHIS0033	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/08/97-12/02/97	0	6	
WHIS0062	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/21/93-08/16/94	1	134	
WHIS0075	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/21/93-08/16/94	1	99	
WHIS0105	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/21/93-08/16/94	1	98	
WHIS0113	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/13/97-12/03/97	0	2	
WHIS0114	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/21/93-08/16/94	1	10	
WHIS0138	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/21/93-08/16/94	1	9	
WHIS0152	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/07/97-12/04/97	0	3	
WHIS0154	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/14/77-03/03/83	5	4	
WHIS0157	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/07/97-12/04/97	0	3	
WHIS0195	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/07/97-12/04/97	0	3	
WHIS0197	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/07/97-12/04/97	0	3	
WHIS0002	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/21/58-09/14/77	19	21	S
WHIS0062	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/21/93-08/16/94	1	136	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 11/20/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
WHIS0075	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/21/93-08/16/94	1	102	
WHIS0105	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/21/93-08/16/94	1	99	
WHIS0114	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/21/93-08/16/94	1	10	
WHIS0138	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/21/93-08/16/94	1	9	
WHIS0154	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	07/08/77-03/03/83	5	4	
WHIS0008	Yes	00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	11/20/98-11/20/98	0	1	
WHIS0058	Yes	00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	01/31/79-01/31/79	0	1	
WHIS0112	Yes	00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	06/20/77-06/20/77	0	1	
WHIS0187	No	00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	12/30/83-02/01/84	0	6	
WHIS0187	No	00745	SULFIDE, TOTAL (MG/L AS S)	12/30/83-02/01/84	0	6	
WHIS0002	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/11/52-09/19/88	36	72	T,S
WHIS0003	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/10/60-09/02/66	5	71	
WHIS0008	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/05/97-11/20/98	1	6	
WHIS0009	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/02/73-01/17/80	6	82	
WHIS0012	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/02/73-01/17/80	6	78	
WHIS0015	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/13/97-11/13/97	0	1	
WHIS0016	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/04/73-01/17/80	6	89	
WHIS0027	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/10/75-03/13/81	5	2	
WHIS0028	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/21/78-06/11/85	6	5	
WHIS0029	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/19/81-06/02/94	12	22	
WHIS0030	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/22/86-02/16/94	7	6	
WHIS0031	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/14/63-01/22/64	0	2	
WHIS0033	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/12/97-11/12/97	0	2	
WHIS0041	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	03/17/80-09/09/82	2	2	
WHIS0042	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	04/16/84-02/11/91	6	3	
WHIS0044	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/73-12/14/79	6	91	
WHIS0045	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/15/62-11/15/62	0	1	
WHIS0046	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/24/68-05/24/68	0	1	
WHIS0054	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/10/92-07/10/92	0	1	
WHIS0058	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/31/79-01/31/79	0	1	
WHIS0060	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/21/78-09/22/86	8	6	
WHIS0063	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	03/17/80-04/10/87	7	4	
WHIS0067	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/02/97-01/06/98	0	4	
WHIS0074	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/73-12/14/79	6	47	
WHIS0087	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	04/03/86-04/03/86	0	1	
WHIS0092	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/14/62-11/14/62	0	1	
WHIS0093	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/73-01/23/80	6	89	
WHIS0106	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/23/68-05/23/68	0	1	
WHIS0109	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/15/75-08/16/79	4	34	
WHIS0110	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/07/81-10/07/81	0	1	
WHIS0111	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/07/81-10/07/81	0	1	
WHIS0113	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/13/97-11/13/97	0	1	
WHIS0120	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	03/17/80-10/07/81	1	2	
WHIS0124	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	04/16/84-04/03/86	1	2	
WHIS0126	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/05/75-06/05/75	0	1	
WHIS0127	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	03/07/85-02/27/92	6	3	
WHIS0131	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/15/62-11/15/62	0	1	
WHIS0137	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	03/02/73-01/23/80	6	33	
WHIS0139	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/05/75-06/05/75	0	1	
WHIS0140	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/11/80-07/11/80	0	1	
WHIS0143	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/20/76-01/17/80	3	44	
WHIS0148	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/73-01/23/80	6	91	
WHIS0149	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/24/68-05/24/68	0	1	
WHIS0151	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/14/73-01/17/80	7	82	
WHIS0152	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/13/97-11/13/97	0	1	
WHIS0153	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/05/75-06/05/75	0	1	
WHIS0154	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/14/63-03/03/83	19	5	
WHIS0157	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/13/97-11/13/97	0	1	
WHIS0162	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/73-07/11/80	7	92	
WHIS0170	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/73-07/11/80	7	93	
WHIS0173	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/21/68-05/21/68	0	1	
WHIS0175	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/03/72-07/11/80	8	92	T,S
WHIS0195	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/13/97-11/13/97	0	1	
WHIS0197	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/13/97-11/13/97	0	1	
WHIS0003	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/10/60-09/02/66	5	71	
WHIS0045	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	11/15/62-11/15/62	0	1	
WHIS0046	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	05/24/68-05/24/68	0	1	
WHIS0092	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	11/14/62-11/14/62	0	1	
WHIS0106	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	05/23/68-05/23/68	0	1	
WHIS0131	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	11/15/62-11/15/62	0	1	
WHIS0149	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	05/24/68-05/24/68	0	1	
WHIS0173	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	05/21/68-05/21/68	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 11/20/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
WHIS0002	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	02/11/52-09/19/88	36	45	T,S
WHIS0003	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/10/60-09/02/66	5	13	
WHIS0008	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/05/97-11/20/98	1	6	
WHIS0015	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/13/97-11/13/97	0	1	
WHIS0029	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/19/81-06/02/94	12	22	
WHIS0031	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/14/63-05/14/63	0	1	
WHIS0033	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/12/97-11/12/97	0	2	
WHIS0045	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/15/62-11/15/62	0	1	
WHIS0046	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/24/68-05/24/68	0	1	
WHIS0058	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	01/31/79-01/31/79	0	1	
WHIS0092	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/14/62-11/14/62	0	1	
WHIS0106	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/23/68-05/23/68	0	1	
WHIS0111	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/07/81-10/07/81	0	1	
WHIS0113	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/13/97-11/13/97	0	1	
WHIS0131	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/15/62-11/15/62	0	1	
WHIS0149	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/24/68-05/24/68	0	1	
WHIS0152	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/13/97-11/13/97	0	1	
WHIS0154	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/14/63-03/03/83	19	4	
WHIS0157	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/13/97-11/13/97	0	1	
WHIS0173	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/21/68-05/21/68	0	1	
WHIS0195	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/13/97-11/13/97	0	1	
WHIS0197	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/13/97-11/13/97	0	1	
WHIS0027	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	07/10/75-03/13/81	5	2	
WHIS0028	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	06/21/78-06/11/85	6	5	
WHIS0030	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	09/22/86-02/16/94	7	6	
WHIS0041	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	03/17/80-09/09/82	2	2	
WHIS0042	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	04/16/84-02/11/91	6	3	
WHIS0054	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	07/10/92-07/23/96	4	2	
WHIS0060	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	06/21/78-09/22/86	8	6	
WHIS0063	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	03/17/80-04/10/87	7	4	
WHIS0067	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	08/13/97-01/06/98	0	6	
WHIS0087	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	04/03/86-04/03/86	0	1	
WHIS0110	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	10/07/81-10/07/81	0	1	
WHIS0120	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	03/17/80-10/07/81	1	2	
WHIS0124	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	04/16/84-04/03/86	1	2	
WHIS0127	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	03/07/85-02/27/92	6	3	
WHIS0002	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	02/11/52-09/19/88	36	45	T,S
WHIS0003	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/10/60-09/02/66	5	13	
WHIS0008	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/18/96-11/20/98	2	7	
WHIS0015	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/13/97-11/13/97	0	1	
WHIS0029	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/19/81-06/02/94	12	22	
WHIS0031	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/14/63-05/14/63	0	1	
WHIS0033	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/12/97-11/12/97	0	2	
WHIS0045	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/15/62-11/15/62	0	1	
WHIS0046	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/24/68-05/24/68	0	1	
WHIS0058	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/31/79-01/31/79	0	1	
WHIS0092	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/14/62-11/14/62	0	1	
WHIS0106	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/23/68-05/23/68	0	1	
WHIS0111	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/07/81-10/07/81	0	1	
WHIS0113	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/13/97-11/13/97	0	1	
WHIS0131	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/15/62-11/15/62	0	1	
WHIS0149	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/24/68-05/24/68	0	1	
WHIS0152	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/13/97-11/13/97	0	1	
WHIS0154	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/14/63-03/03/83	19	4	
WHIS0157	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/13/97-11/13/97	0	1	
WHIS0173	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/21/68-05/21/68	0	1	
WHIS0195	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/13/97-11/13/97	0	1	
WHIS0197	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/13/97-11/13/97	0	1	
WHIS0008	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	06/05/97-11/20/98	1	6	
WHIS0027	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	07/10/75-03/13/81	5	2	
WHIS0028	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	06/21/78-06/11/85	6	5	
WHIS0030	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	09/22/86-02/16/94	7	6	
WHIS0041	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	03/17/80-09/09/82	2	2	
WHIS0042	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	04/16/84-02/11/91	6	3	
WHIS0054	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	07/10/92-07/10/92	0	1	
WHIS0060	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	06/21/78-09/22/86	8	6	
WHIS0063	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	03/17/80-04/10/87	7	4	
WHIS0087	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	04/03/86-04/03/86	0	1	
WHIS0097	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	05/22/84-06/05/84	0	2	
WHIS0102	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	05/22/84-06/05/84	0	2	
WHIS0110	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/07/81-10/07/81	0	1	
WHIS0119	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	06/13/84-06/13/84	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 11/20/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
WHIS0120	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	03/17/80-10/07/81	1	2	
WHIS0124	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	04/16/84-04/03/86	1	2	
WHIS0127	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	03/07/85-02/27/92	6	3	
WHIS0128	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	06/13/84-06/13/84	0	1	
WHIS0141	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	05/23/84-05/23/84	0	1	
WHIS0142	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	05/23/84-06/13/84	0	3	
WHIS0145	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	05/23/84-05/23/84	0	1	
WHIS0146	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	06/13/84-06/13/84	0	1	
WHIS0147	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	06/13/84-06/13/84	0	1	
WHIS0150	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	05/23/84-05/23/84	0	1	
WHIS0156	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	06/13/84-06/13/84	0	1	
WHIS0160	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	06/13/84-06/13/84	0	1	
WHIS0161	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	06/13/84-06/13/84	0	1	
WHIS0163	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	05/22/84-06/05/84	0	2	
WHIS0166	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	05/23/84-05/23/84	0	1	
WHIS0167	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	05/30/84-05/30/84	0	1	
WHIS0168	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	05/30/84-05/30/84	0	1	
WHIS0169	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	05/30/84-06/13/84	0	2	
WHIS0171	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	05/23/84-05/23/84	0	1	
WHIS0176	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	05/30/84-05/30/84	0	1	
WHIS0187	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	12/30/83-05/08/84	0	18	
WHIS0027	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	07/10/75-03/13/81	5	2	
WHIS0028	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	06/21/78-06/11/85	6	5	
WHIS0030	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	09/22/86-02/16/94	7	6	
WHIS0041	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	03/17/80-09/09/82	2	2	
WHIS0042	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	04/16/84-02/11/91	6	3	
WHIS0054	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	07/10/92-07/10/92	0	1	
WHIS0060	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	06/21/78-09/22/86	8	6	
WHIS0063	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	03/17/80-04/10/87	7	4	
WHIS0087	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	04/03/86-04/03/86	0	1	
WHIS0097	No	00929	SODIUM, TOTAL (MG/L AS NA)	05/22/84-06/05/84	0	2	
WHIS0102	No	00929	SODIUM, TOTAL (MG/L AS NA)	05/22/84-06/05/84	0	2	
WHIS0110	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	10/07/81-10/07/81	0	1	
WHIS0119	No	00929	SODIUM, TOTAL (MG/L AS NA)	06/13/84-06/13/84	0	1	
WHIS0120	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	03/17/80-10/07/81	1	2	
WHIS0124	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	04/16/84-04/03/86	1	2	
WHIS0127	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	03/07/85-02/27/92	6	3	
WHIS0128	No	00929	SODIUM, TOTAL (MG/L AS NA)	06/13/84-06/13/84	0	1	
WHIS0141	No	00929	SODIUM, TOTAL (MG/L AS NA)	05/23/84-05/23/84	0	1	
WHIS0142	No	00929	SODIUM, TOTAL (MG/L AS NA)	05/23/84-06/13/84	0	3	
WHIS0145	No	00929	SODIUM, TOTAL (MG/L AS NA)	05/23/84-05/23/84	0	1	
WHIS0146	No	00929	SODIUM, TOTAL (MG/L AS NA)	06/13/84-06/13/84	0	1	
WHIS0147	No	00929	SODIUM, TOTAL (MG/L AS NA)	06/13/84-06/13/84	0	1	
WHIS0150	No	00929	SODIUM, TOTAL (MG/L AS NA)	05/23/84-05/23/84	0	1	
WHIS0156	No	00929	SODIUM, TOTAL (MG/L AS NA)	06/13/84-06/13/84	0	1	
WHIS0160	No	00929	SODIUM, TOTAL (MG/L AS NA)	06/13/84-06/13/84	0	1	
WHIS0161	No	00929	SODIUM, TOTAL (MG/L AS NA)	06/13/84-06/13/84	0	1	
WHIS0163	No	00929	SODIUM, TOTAL (MG/L AS NA)	05/22/84-06/05/84	0	2	
WHIS0166	No	00929	SODIUM, TOTAL (MG/L AS NA)	05/23/84-05/23/84	0	1	
WHIS0167	No	00929	SODIUM, TOTAL (MG/L AS NA)	05/30/84-05/30/84	0	1	
WHIS0168	No	00929	SODIUM, TOTAL (MG/L AS NA)	05/30/84-05/30/84	0	1	
WHIS0169	No	00929	SODIUM, TOTAL (MG/L AS NA)	05/30/84-06/13/84	0	2	
WHIS0171	No	00929	SODIUM, TOTAL (MG/L AS NA)	05/23/84-05/23/84	0	1	
WHIS0176	No	00929	SODIUM, TOTAL (MG/L AS NA)	05/30/84-05/30/84	0	1	
WHIS0187	No	00929	SODIUM, TOTAL (MG/L AS NA)	12/30/83-05/08/84	0	18	
WHIS0002	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	02/11/52-09/19/88	36	73	T,S
WHIS0003	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/10/60-09/02/66	5	71	
WHIS0008	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	06/05/97-11/20/98	1	6	
WHIS0015	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	11/13/97-11/13/97	0	1	
WHIS0029	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/19/81-06/02/94	12	22	
WHIS0033	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	11/12/97-11/12/97	0	2	
WHIS0045	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	11/15/62-11/15/62	0	1	
WHIS0046	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/24/68-05/24/68	0	1	
WHIS0058	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	01/31/79-01/31/79	0	1	
WHIS0092	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	11/14/62-11/14/62	0	1	
WHIS0106	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/23/68-05/23/68	0	1	
WHIS0111	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/07/81-10/07/81	0	1	
WHIS0113	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	11/13/97-11/13/97	0	1	
WHIS0131	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	11/15/62-11/15/62	0	1	
WHIS0149	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/24/68-05/24/68	0	1	
WHIS0152	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	11/13/97-11/13/97	0	1	
WHIS0154	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	06/22/77-03/03/83	5	4	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 11/20/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
WHIS0157	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	11/13/97-11/13/97	0	1	
WHIS0173	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/21/68-05/21/68	0	1	
WHIS0195	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	11/13/97-11/13/97	0	1	
WHIS0197	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	11/13/97-11/13/97	0	1	
WHIS0003	No	00931	SODIUM ADSORPTION RATIO	10/10/60-09/02/66	5	71	
WHIS0002	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	02/11/52-09/19/88	36	41	T,S
WHIS0003	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/08/61-09/02/66	5	12	
WHIS0008	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	06/05/97-11/20/98	1	6	
WHIS0015	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/13/97-11/13/97	0	1	
WHIS0029	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/19/81-06/02/94	12	22	
WHIS0033	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/12/97-11/12/97	0	2	
WHIS0045	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/15/62-11/15/62	0	1	
WHIS0046	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/24/68-05/24/68	0	1	
WHIS0092	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/14/62-11/14/62	0	1	
WHIS0106	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/23/68-05/23/68	0	1	
WHIS0111	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/07/81-10/07/81	0	1	
WHIS0113	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/13/97-11/13/97	0	1	
WHIS0131	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/15/62-11/15/62	0	1	
WHIS0149	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/24/68-05/24/68	0	1	
WHIS0152	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/13/97-11/13/97	0	1	
WHIS0154	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	06/22/77-03/03/83	5	3	
WHIS0157	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/13/97-11/13/97	0	1	
WHIS0173	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/21/68-05/21/68	0	1	
WHIS0195	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/13/97-11/13/97	0	1	
WHIS0197	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/13/97-11/13/97	0	1	
WHIS0041	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	03/17/80-09/09/82	2	2	
WHIS0042	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	04/16/84-04/10/87	2	2	
WHIS0063	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	03/17/80-04/10/87	7	4	
WHIS0087	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	04/03/86-04/03/86	0	1	
WHIS0097	No	00937	POTASSIUM, TOTAL MG/L AS K)	05/22/84-06/05/84	0	2	
WHIS0102	No	00937	POTASSIUM, TOTAL MG/L AS K)	05/22/84-06/05/84	0	2	
WHIS0110	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	10/07/81-10/07/81	0	1	
WHIS0119	No	00937	POTASSIUM, TOTAL MG/L AS K)	06/13/84-06/13/84	0	1	
WHIS0120	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	03/17/80-10/07/81	1	2	
WHIS0124	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	04/16/84-04/03/86	1	2	
WHIS0127	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	03/07/85-03/07/85	0	1	
WHIS0128	No	00937	POTASSIUM, TOTAL MG/L AS K)	06/13/84-06/13/84	0	1	
WHIS0141	No	00937	POTASSIUM, TOTAL MG/L AS K)	05/23/84-05/23/84	0	1	
WHIS0142	No	00937	POTASSIUM, TOTAL MG/L AS K)	05/23/84-06/13/84	0	3	
WHIS0145	No	00937	POTASSIUM, TOTAL MG/L AS K)	05/23/84-05/23/84	0	1	
WHIS0146	No	00937	POTASSIUM, TOTAL MG/L AS K)	06/13/84-06/13/84	0	1	
WHIS0147	No	00937	POTASSIUM, TOTAL MG/L AS K)	06/13/84-06/13/84	0	1	
WHIS0150	No	00937	POTASSIUM, TOTAL MG/L AS K)	05/23/84-05/23/84	0	1	
WHIS0156	No	00937	POTASSIUM, TOTAL MG/L AS K)	06/13/84-06/13/84	0	1	
WHIS0160	No	00937	POTASSIUM, TOTAL MG/L AS K)	06/13/84-06/13/84	0	1	
WHIS0161	No	00937	POTASSIUM, TOTAL MG/L AS K)	06/13/84-06/13/84	0	1	
WHIS0163	No	00937	POTASSIUM, TOTAL MG/L AS K)	05/22/84-06/05/84	0	2	
WHIS0166	No	00937	POTASSIUM, TOTAL MG/L AS K)	05/23/84-05/23/84	0	1	
WHIS0167	No	00937	POTASSIUM, TOTAL MG/L AS K)	05/30/84-05/30/84	0	1	
WHIS0168	No	00937	POTASSIUM, TOTAL MG/L AS K)	05/30/84-05/30/84	0	1	
WHIS0169	No	00937	POTASSIUM, TOTAL MG/L AS K)	05/30/84-06/13/84	0	2	
WHIS0171	No	00937	POTASSIUM, TOTAL MG/L AS K)	05/23/84-05/23/84	0	1	
WHIS0176	No	00937	POTASSIUM, TOTAL MG/L AS K)	05/30/84-05/30/84	0	1	
WHIS0187	No	00937	POTASSIUM, TOTAL MG/L AS K)	12/30/83-05/08/84	0	18	
WHIS0003	No	00940	CHLORIDE,TOTAL IN WATER MG/L	10/10/60-09/02/66	5	71	
WHIS0027	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	07/10/75-03/13/81	5	2	
WHIS0028	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	06/21/78-06/11/85	6	5	
WHIS0030	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	09/22/86-02/16/94	7	6	
WHIS0041	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	03/17/80-09/09/82	2	2	
WHIS0042	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	04/16/84-02/11/91	6	3	
WHIS0054	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	07/10/92-07/10/92	0	1	
WHIS0058	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	01/31/79-01/31/79	0	1	
WHIS0060	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	06/21/78-09/22/86	8	6	
WHIS0063	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	03/17/80-04/10/87	7	4	
WHIS0087	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	04/03/86-04/03/86	0	1	
WHIS0097	No	00940	CHLORIDE,TOTAL IN WATER MG/L	05/22/84-06/05/84	0	2	
WHIS0102	No	00940	CHLORIDE,TOTAL IN WATER MG/L	05/22/84-06/05/84	0	2	
WHIS0110	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	10/07/81-10/07/81	0	1	
WHIS0111	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	10/07/81-10/07/81	0	1	
WHIS0112	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	06/20/77-06/20/77	0	1	
WHIS0119	No	00940	CHLORIDE,TOTAL IN WATER MG/L	06/13/84-06/13/84	0	1	
WHIS0120	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	03/17/80-10/07/81	1	2	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 11/20/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
WHIS0124	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	04/16/84-04/03/86	1	2	
WHIS0127	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	03/07/85-02/27/92	6	3	
WHIS0128	No	00940	CHLORIDE,TOTAL IN WATER MG/L	06/13/84-06/13/84	0	1	
WHIS0141	No	00940	CHLORIDE,TOTAL IN WATER MG/L	05/23/84-05/23/84	0	1	
WHIS0142	No	00940	CHLORIDE,TOTAL IN WATER MG/L	05/23/84-06/13/84	0	3	
WHIS0145	No	00940	CHLORIDE,TOTAL IN WATER MG/L	05/23/84-05/23/84	0	1	
WHIS0146	No	00940	CHLORIDE,TOTAL IN WATER MG/L	06/13/84-06/13/84	0	1	
WHIS0147	No	00940	CHLORIDE,TOTAL IN WATER MG/L	06/13/84-06/13/84	0	1	
WHIS0150	No	00940	CHLORIDE,TOTAL IN WATER MG/L	05/23/84-05/23/84	0	1	
WHIS0156	No	00940	CHLORIDE,TOTAL IN WATER MG/L	06/13/84-06/13/84	0	1	
WHIS0160	No	00940	CHLORIDE,TOTAL IN WATER MG/L	06/13/84-06/13/84	0	1	
WHIS0161	No	00940	CHLORIDE,TOTAL IN WATER MG/L	06/13/84-06/13/84	0	1	
WHIS0163	No	00940	CHLORIDE,TOTAL IN WATER MG/L	05/22/84-06/05/84	0	2	
WHIS0166	No	00940	CHLORIDE,TOTAL IN WATER MG/L	05/23/84-05/23/84	0	1	
WHIS0167	No	00940	CHLORIDE,TOTAL IN WATER MG/L	05/30/84-05/30/84	0	1	
WHIS0168	No	00940	CHLORIDE,TOTAL IN WATER MG/L	05/30/84-05/30/84	0	1	
WHIS0169	No	00940	CHLORIDE,TOTAL IN WATER MG/L	05/30/84-06/13/84	0	2	
WHIS0171	No	00940	CHLORIDE,TOTAL IN WATER MG/L	05/23/84-05/23/84	0	1	
WHIS0176	No	00940	CHLORIDE,TOTAL IN WATER MG/L	05/30/84-05/30/84	0	1	
WHIS0187	No	00940	CHLORIDE,TOTAL IN WATER MG/L	12/30/83-05/08/84	0	18	
WHIS0002	No	00941	CHLORIDE, DISSOLVED IN WATER MG/L	02/11/52-09/19/88	36	144	T,A,S
WHIS0008	Yes	00941	CHLORIDE, DISSOLVED IN WATER MG/L	11/18/96-11/20/98	2	7	
WHIS0015	Yes	00941	CHLORIDE, DISSOLVED IN WATER MG/L	11/13/97-11/13/97	0	1	
WHIS0029	Yes	00941	CHLORIDE, DISSOLVED IN WATER MG/L	08/19/81-06/02/94	12	20	
WHIS0031	Yes	00941	CHLORIDE, DISSOLVED IN WATER MG/L	05/14/63-01/22/64	0	2	
WHIS0033	Yes	00941	CHLORIDE, DISSOLVED IN WATER MG/L	11/12/97-11/12/97	0	2	
WHIS0045	Yes	00941	CHLORIDE, DISSOLVED IN WATER MG/L	11/15/62-11/15/62	0	1	
WHIS0046	Yes	00941	CHLORIDE, DISSOLVED IN WATER MG/L	05/24/68-05/24/68	0	1	
WHIS0092	Yes	00941	CHLORIDE, DISSOLVED IN WATER MG/L	11/14/62-11/14/62	0	1	
WHIS0106	Yes	00941	CHLORIDE, DISSOLVED IN WATER MG/L	05/23/68-05/23/68	0	1	
WHIS0113	Yes	00941	CHLORIDE, DISSOLVED IN WATER MG/L	11/13/97-11/13/97	0	1	
WHIS0131	Yes	00941	CHLORIDE, DISSOLVED IN WATER MG/L	11/15/62-11/15/62	0	1	
WHIS0149	Yes	00941	CHLORIDE, DISSOLVED IN WATER MG/L	05/24/68-05/24/68	0	1	
WHIS0152	Yes	00941	CHLORIDE, DISSOLVED IN WATER MG/L	11/13/97-11/13/97	0	1	
WHIS0154	Yes	00941	CHLORIDE, DISSOLVED IN WATER MG/L	05/14/63-03/03/83	19	7	
WHIS0157	Yes	00941	CHLORIDE, DISSOLVED IN WATER MG/L	11/13/97-11/13/97	0	1	
WHIS0173	Yes	00941	CHLORIDE, DISSOLVED IN WATER MG/L	05/21/68-05/21/68	0	1	
WHIS0195	No	00941	CHLORIDE, DISSOLVED IN WATER MG/L	11/13/97-11/13/97	0	1	
WHIS0197	No	00941	CHLORIDE, DISSOLVED IN WATER MG/L	11/13/97-11/13/97	0	1	
WHIS0003	No	00945	SULFATE, TOTAL (MG/L AS SO4)	05/08/61-09/02/66	5	12	
WHIS0027	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	07/10/75-03/13/81	5	2	
WHIS0028	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	06/21/78-06/11/85	6	5	
WHIS0030	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	09/22/86-02/16/94	7	6	
WHIS0041	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	03/17/80-09/09/82	2	2	
WHIS0042	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	04/16/84-02/11/91	6	3	
WHIS0054	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	07/10/92-07/10/92	0	1	
WHIS0058	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	01/31/79-01/31/79	0	1	
WHIS0060	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	06/21/78-09/22/86	8	6	
WHIS0063	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	03/17/80-04/10/87	7	4	
WHIS0087	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	04/03/86-04/03/86	0	1	
WHIS0097	No	00945	SULFATE, TOTAL (MG/L AS SO4)	01/04/84-06/28/84	0	13	
WHIS0102	No	00945	SULFATE, TOTAL (MG/L AS SO4)	01/04/84-05/22/84	0	20	
WHIS0110	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	10/07/81-10/07/81	0	1	
WHIS0111	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	10/07/81-10/07/81	0	1	
WHIS0112	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	06/20/77-06/20/77	0	1	
WHIS0119	No	00945	SULFATE, TOTAL (MG/L AS SO4)	06/13/84-06/13/84	0	1	
WHIS0120	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	03/17/80-10/07/81	1	2	
WHIS0124	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	04/16/84-04/03/86	1	2	
WHIS0126	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	06/05/75-06/05/75	0	1	
WHIS0127	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	03/07/85-02/27/92	6	3	
WHIS0128	No	00945	SULFATE, TOTAL (MG/L AS SO4)	06/13/84-06/13/84	0	1	
WHIS0139	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	06/05/75-06/05/75	0	1	
WHIS0141	No	00945	SULFATE, TOTAL (MG/L AS SO4)	05/23/84-05/23/84	0	1	
WHIS0142	No	00945	SULFATE, TOTAL (MG/L AS SO4)	05/23/84-06/13/84	0	3	
WHIS0145	No	00945	SULFATE, TOTAL (MG/L AS SO4)	05/23/84-05/23/84	0	1	
WHIS0146	No	00945	SULFATE, TOTAL (MG/L AS SO4)	06/13/84-06/13/84	0	1	
WHIS0147	No	00945	SULFATE, TOTAL (MG/L AS SO4)	06/13/84-06/13/84	0	1	
WHIS0150	No	00945	SULFATE, TOTAL (MG/L AS SO4)	05/23/84-05/23/84	0	1	
WHIS0153	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	06/05/75-06/05/75	0	1	
WHIS0156	No	00945	SULFATE, TOTAL (MG/L AS SO4)	06/13/84-06/13/84	0	1	
WHIS0160	No	00945	SULFATE, TOTAL (MG/L AS SO4)	06/13/84-06/13/84	0	1	
WHIS0161	No	00945	SULFATE, TOTAL (MG/L AS SO4)	06/13/84-06/13/84	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 11/20/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
WHIS0163	No	00945	SULFATE, TOTAL (MG/L AS SO4)	01/04/84-06/05/84	0	21	
WHIS0166	No	00945	SULFATE, TOTAL (MG/L AS SO4)	05/23/84-05/23/84	0	1	
WHIS0167	No	00945	SULFATE, TOTAL (MG/L AS SO4)	05/30/84-05/30/84	0	1	
WHIS0168	No	00945	SULFATE, TOTAL (MG/L AS SO4)	05/30/84-05/30/84	0	1	
WHIS0169	No	00945	SULFATE, TOTAL (MG/L AS SO4)	05/30/84-06/13/84	0	2	
WHIS0170	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	06/05/75-06/05/75	0	1	
WHIS0171	No	00945	SULFATE, TOTAL (MG/L AS SO4)	05/23/84-05/23/84	0	1	
WHIS0176	No	00945	SULFATE, TOTAL (MG/L AS SO4)	05/30/84-05/30/84	0	1	
WHIS0187	No	00945	SULFATE, TOTAL (MG/L AS SO4)	12/30/83-05/08/84	0	18	
WHIS0002	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	02/11/52-05/23/85	33	48	T,S
WHIS0008	Yes	00946	SULFATE, DISSOLVED (MG/L AS SO4)	11/18/96-11/20/98	2	7	
WHIS0015	Yes	00946	SULFATE, DISSOLVED (MG/L AS SO4)	11/13/97-11/13/97	0	1	
WHIS0029	Yes	00946	SULFATE, DISSOLVED (MG/L AS SO4)	08/19/81-06/02/94	12	20	
WHIS0033	Yes	00946	SULFATE, DISSOLVED (MG/L AS SO4)	11/12/97-11/12/97	0	2	
WHIS0045	Yes	00946	SULFATE, DISSOLVED (MG/L AS SO4)	11/15/62-11/15/62	0	1	
WHIS0046	Yes	00946	SULFATE, DISSOLVED (MG/L AS SO4)	05/24/68-05/24/68	0	1	
WHIS0092	Yes	00946	SULFATE, DISSOLVED (MG/L AS SO4)	11/14/62-11/14/62	0	1	
WHIS0106	Yes	00946	SULFATE, DISSOLVED (MG/L AS SO4)	05/23/68-05/23/68	0	1	
WHIS0113	Yes	00946	SULFATE, DISSOLVED (MG/L AS SO4)	11/13/97-11/13/97	0	1	
WHIS0131	Yes	00946	SULFATE, DISSOLVED (MG/L AS SO4)	11/15/62-11/15/62	0	1	
WHIS0149	Yes	00946	SULFATE, DISSOLVED (MG/L AS SO4)	05/24/68-05/24/68	0	1	
WHIS0152	Yes	00946	SULFATE, DISSOLVED (MG/L AS SO4)	11/13/97-11/13/97	0	1	
WHIS0154	Yes	00946	SULFATE, DISSOLVED (MG/L AS SO4)	06/22/77-06/22/77	0	1	
WHIS0157	Yes	00946	SULFATE, DISSOLVED (MG/L AS SO4)	11/13/97-11/13/97	0	1	
WHIS0173	Yes	00946	SULFATE, DISSOLVED (MG/L AS SO4)	05/21/68-05/21/68	0	1	
WHIS0195	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	11/13/97-11/13/97	0	1	
WHIS0197	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	11/13/97-11/13/97	0	1	
WHIS0002	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	02/11/52-09/05/60	8	22	
WHIS0003	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/08/61-05/07/64	2	7	
WHIS0008	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/20/98-11/20/98	0	1	
WHIS0045	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/15/62-11/15/62	0	1	
WHIS0046	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/24/68-05/24/68	0	1	
WHIS0058	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	01/31/79-01/31/79	0	1	
WHIS0092	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/14/62-11/14/62	0	1	
WHIS0106	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/23/68-05/23/68	0	1	
WHIS0111	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/07/81-10/07/81	0	1	
WHIS0112	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	06/20/77-06/20/77	0	1	
WHIS0131	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/15/62-11/15/62	0	1	
WHIS0149	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/24/68-05/24/68	0	1	
WHIS0173	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/21/68-05/21/68	0	1	
WHIS0027	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	07/10/75-03/13/81	5	2	
WHIS0028	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	06/21/78-06/11/85	6	5	
WHIS0030	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	09/22/86-02/16/94	7	6	
WHIS0041	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	03/17/80-09/09/82	2	2	
WHIS0042	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	04/16/84-02/11/91	6	3	
WHIS0054	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	07/10/92-07/10/92	0	1	
WHIS0060	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	06/21/78-09/22/86	8	6	
WHIS0063	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	03/17/80-04/10/87	7	4	
WHIS0087	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	04/03/86-04/03/86	0	1	
WHIS0110	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	10/07/81-10/07/81	0	1	
WHIS0120	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	03/17/80-10/07/81	1	2	
WHIS0124	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	04/16/84-04/03/86	1	2	
WHIS0127	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	03/07/85-02/27/92	6	3	
WHIS0002	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	02/11/52-05/04/67	15	23	
WHIS0003	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	05/08/61-09/02/66	5	12	
WHIS0045	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	11/15/62-11/15/62	0	1	
WHIS0046	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	05/24/68-05/24/68	0	1	
WHIS0092	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	11/14/62-11/14/62	0	1	
WHIS0106	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	05/23/68-05/23/68	0	1	
WHIS0131	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	11/15/62-11/15/62	0	1	
WHIS0149	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	05/24/68-05/24/68	0	1	
WHIS0173	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	05/21/68-05/21/68	0	1	
WHIS0097	No	00956	SILICA, TOTAL (MG/L AS SI02)	05/22/84-06/05/84	0	2	
WHIS0102	No	00956	SILICA, TOTAL (MG/L AS SI02)	05/22/84-06/05/84	0	2	
WHIS0119	No	00956	SILICA, TOTAL (MG/L AS SI02)	06/13/84-06/13/84	0	1	
WHIS0128	No	00956	SILICA, TOTAL (MG/L AS SI02)	06/13/84-06/13/84	0	1	
WHIS0141	No	00956	SILICA, TOTAL (MG/L AS SI02)	05/23/84-05/23/84	0	1	
WHIS0142	No	00956	SILICA, TOTAL (MG/L AS SI02)	05/23/84-06/13/84	0	3	
WHIS0145	No	00956	SILICA, TOTAL (MG/L AS SI02)	05/23/84-05/23/84	0	1	
WHIS0146	No	00956	SILICA, TOTAL (MG/L AS SI02)	06/13/84-06/13/84	0	1	
WHIS0147	No	00956	SILICA, TOTAL (MG/L AS SI02)	06/13/84-06/13/84	0	1	
WHIS0150	No	00956	SILICA, TOTAL (MG/L AS SI02)	05/23/84-05/23/84	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 11/20/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
WHIS0156	No	00956	SILICA, TOTAL (MG/L AS SI02)	06/13/84-06/13/84	0	1	
WHIS0160	No	00956	SILICA, TOTAL (MG/L AS SI02)	06/13/84-06/13/84	0	1	
WHIS0161	No	00956	SILICA, TOTAL (MG/L AS SI02)	06/13/84-06/13/84	0	1	
WHIS0163	No	00956	SILICA, TOTAL (MG/L AS SI02)	05/22/84-06/05/84	0	2	
WHIS0166	No	00956	SILICA, TOTAL (MG/L AS SI02)	05/23/84-05/23/84	0	1	
WHIS0167	No	00956	SILICA, TOTAL (MG/L AS SI02)	05/30/84-05/30/84	0	1	
WHIS0168	No	00956	SILICA, TOTAL (MG/L AS SI02)	05/30/84-05/30/84	0	1	
WHIS0169	No	00956	SILICA, TOTAL (MG/L AS SI02)	05/30/84-06/13/84	0	2	
WHIS0171	No	00956	SILICA, TOTAL (MG/L AS SI02)	05/23/84-05/23/84	0	1	
WHIS0176	No	00956	SILICA, TOTAL (MG/L AS SI02)	05/30/84-05/30/84	0	1	
WHIS0187	No	00956	SILICA, TOTAL (MG/L AS SI02)	12/30/83-05/08/84	0	18	
WHIS0002	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	01/27/55-05/24/71	16	18	
WHIS0008	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	11/18/96-11/20/98	2	7	
WHIS0015	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	10/07/97-11/13/97	0	2	
WHIS0029	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	09/30/86-06/02/94	7	15	
WHIS0030	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	09/22/86-02/16/94	7	6	
WHIS0033	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	10/08/97-12/02/97	0	6	
WHIS0042	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	04/16/84-02/11/91	6	3	
WHIS0054	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	07/10/92-07/10/92	0	1	
WHIS0058	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	01/31/79-01/31/79	0	1	
WHIS0097	No	01002	ARSENIC, TOTAL (UG/L AS AS)	05/22/84-06/05/84	0	2	
WHIS0102	No	01002	ARSENIC, TOTAL (UG/L AS AS)	05/22/84-06/05/84	0	2	
WHIS0111	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	10/07/81-10/07/81	0	1	
WHIS0112	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	06/20/77-06/20/77	0	1	
WHIS0113	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	11/13/97-12/03/97	0	2	
WHIS0119	No	01002	ARSENIC, TOTAL (UG/L AS AS)	06/13/84-06/13/84	0	1	
WHIS0124	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	04/16/84-04/03/86	1	2	
WHIS0127	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	03/07/85-02/27/92	6	3	
WHIS0128	No	01002	ARSENIC, TOTAL (UG/L AS AS)	06/13/84-06/13/84	0	1	
WHIS0141	No	01002	ARSENIC, TOTAL (UG/L AS AS)	05/23/84-05/23/84	0	1	
WHIS0142	No	01002	ARSENIC, TOTAL (UG/L AS AS)	09/29/83-06/13/84	0	4	
WHIS0145	No	01002	ARSENIC, TOTAL (UG/L AS AS)	09/29/83-05/23/84	0	2	
WHIS0146	No	01002	ARSENIC, TOTAL (UG/L AS AS)	06/13/84-06/13/84	0	1	
WHIS0147	No	01002	ARSENIC, TOTAL (UG/L AS AS)	06/13/84-06/13/84	0	1	
WHIS0150	No	01002	ARSENIC, TOTAL (UG/L AS AS)	05/23/84-05/23/84	0	1	
WHIS0152	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	10/07/97-11/13/97	0	2	
WHIS0156	No	01002	ARSENIC, TOTAL (UG/L AS AS)	06/13/84-06/13/84	0	1	
WHIS0157	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	10/07/97-11/13/97	0	2	
WHIS0160	No	01002	ARSENIC, TOTAL (UG/L AS AS)	06/13/84-06/13/84	0	1	
WHIS0161	No	01002	ARSENIC, TOTAL (UG/L AS AS)	06/13/84-06/13/84	0	1	
WHIS0163	No	01002	ARSENIC, TOTAL (UG/L AS AS)	09/26/83-06/05/84	0	3	
WHIS0166	No	01002	ARSENIC, TOTAL (UG/L AS AS)	05/23/84-05/23/84	0	1	
WHIS0167	No	01002	ARSENIC, TOTAL (UG/L AS AS)	05/30/84-05/30/84	0	1	
WHIS0168	No	01002	ARSENIC, TOTAL (UG/L AS AS)	05/30/84-05/30/84	0	1	
WHIS0169	No	01002	ARSENIC, TOTAL (UG/L AS AS)	05/30/84-06/13/84	0	2	
WHIS0171	No	01002	ARSENIC, TOTAL (UG/L AS AS)	05/23/84-05/23/84	0	1	
WHIS0176	No	01002	ARSENIC, TOTAL (UG/L AS AS)	05/30/84-05/30/84	0	1	
WHIS0187	No	01002	ARSENIC, TOTAL (UG/L AS AS)	12/30/83-05/08/84	0	18	
WHIS0189	No	01002	ARSENIC, TOTAL (UG/L AS AS)	09/01/83-09/01/83	0	1	
WHIS0195	No	01002	ARSENIC, TOTAL (UG/L AS AS)	10/07/97-11/13/97	0	2	
WHIS0197	No	01002	ARSENIC, TOTAL (UG/L AS AS)	10/07/97-11/13/97	0	2	
WHIS0002	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	05/24/71-05/24/71	0	1	
WHIS0008	Yes	01007	BARIUM, TOTAL (UG/L AS BA)	11/18/96-11/20/98	2	7	
WHIS0030	Yes	01007	BARIUM, TOTAL (UG/L AS BA)	09/22/86-02/16/94	7	6	
WHIS0042	Yes	01007	BARIUM, TOTAL (UG/L AS BA)	04/16/84-02/11/91	6	3	
WHIS0054	Yes	01007	BARIUM, TOTAL (UG/L AS BA)	07/10/92-07/10/92	0	1	
WHIS0058	Yes	01007	BARIUM, TOTAL (UG/L AS BA)	01/31/79-01/31/79	0	1	
WHIS0097	No	01007	BARIUM, TOTAL (UG/L AS BA)	05/22/84-06/05/84	0	2	
WHIS0102	No	01007	BARIUM, TOTAL (UG/L AS BA)	05/22/84-06/05/84	0	2	
WHIS0111	Yes	01007	BARIUM, TOTAL (UG/L AS BA)	10/07/81-10/07/81	0	1	
WHIS0112	Yes	01007	BARIUM, TOTAL (UG/L AS BA)	06/20/77-06/20/77	0	1	
WHIS0119	No	01007	BARIUM, TOTAL (UG/L AS BA)	06/13/84-06/13/84	0	1	
WHIS0124	Yes	01007	BARIUM, TOTAL (UG/L AS BA)	04/16/84-04/03/86	1	2	
WHIS0127	Yes	01007	BARIUM, TOTAL (UG/L AS BA)	03/07/85-02/27/92	6	3	
WHIS0128	No	01007	BARIUM, TOTAL (UG/L AS BA)	06/13/84-06/13/84	0	1	
WHIS0141	No	01007	BARIUM, TOTAL (UG/L AS BA)	05/23/84-05/23/84	0	1	
WHIS0142	No	01007	BARIUM, TOTAL (UG/L AS BA)	09/29/83-06/13/84	0	4	
WHIS0145	No	01007	BARIUM, TOTAL (UG/L AS BA)	09/29/83-05/23/84	0	2	
WHIS0146	No	01007	BARIUM, TOTAL (UG/L AS BA)	06/13/84-06/13/84	0	1	
WHIS0147	No	01007	BARIUM, TOTAL (UG/L AS BA)	06/13/84-06/13/84	0	1	
WHIS0150	No	01007	BARIUM, TOTAL (UG/L AS BA)	05/23/84-05/23/84	0	1	
WHIS0156	No	01007	BARIUM, TOTAL (UG/L AS BA)	06/13/84-06/13/84	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 11/20/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
WHIS0160	No	01007	BARIUM, TOTAL (UG/L AS BA)	06/13/84-06/13/84	0	1	
WHIS0161	No	01007	BARIUM, TOTAL (UG/L AS BA)	06/13/84-06/13/84	0	1	
WHIS0163	No	01007	BARIUM, TOTAL (UG/L AS BA)	09/26/83-06/05/84	0	3	
WHIS0166	No	01007	BARIUM, TOTAL (UG/L AS BA)	05/23/84-05/23/84	0	1	
WHIS0167	No	01007	BARIUM, TOTAL (UG/L AS BA)	05/30/84-05/30/84	0	1	
WHIS0168	No	01007	BARIUM, TOTAL (UG/L AS BA)	05/30/84-05/30/84	0	1	
WHIS0169	No	01007	BARIUM, TOTAL (UG/L AS BA)	05/30/84-06/13/84	0	2	
WHIS0171	No	01007	BARIUM, TOTAL (UG/L AS BA)	05/23/84-05/23/84	0	1	
WHIS0176	No	01007	BARIUM, TOTAL (UG/L AS BA)	05/30/84-05/30/84	0	1	
WHIS0187	No	01007	BARIUM, TOTAL (UG/L AS BA)	12/30/83-05/08/84	0	18	
WHIS0189	No	01007	BARIUM, TOTAL (UG/L AS BA)	09/01/83-09/01/83	0	1	
WHIS0008	Yes	01012	BERYLLIUM, TOTAL (UG/L AS BE)	11/18/96-11/20/98	2	7	
WHIS0030	Yes	01012	BERYLLIUM, TOTAL (UG/L AS BE)	07/18/96-07/18/96	0	1	
WHIS0054	Yes	01012	BERYLLIUM, TOTAL (UG/L AS BE)	07/23/96-07/23/96	0	1	
WHIS0097	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	05/22/84-06/05/84	0	2	
WHIS0102	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	05/22/84-06/05/84	0	2	
WHIS0119	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	06/13/84-06/13/84	0	1	
WHIS0128	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	06/13/84-06/13/84	0	1	
WHIS0141	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	05/23/84-05/23/84	0	1	
WHIS0142	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	09/29/83-06/13/84	0	4	
WHIS0145	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	09/29/83-05/23/84	0	2	
WHIS0146	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	06/13/84-06/13/84	0	1	
WHIS0147	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	06/13/84-06/13/84	0	1	
WHIS0150	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	05/23/84-05/23/84	0	1	
WHIS0156	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	06/13/84-06/13/84	0	1	
WHIS0160	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	06/13/84-06/13/84	0	1	
WHIS0161	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	06/13/84-06/13/84	0	1	
WHIS0163	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	09/26/83-06/05/84	0	3	
WHIS0166	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	05/23/84-05/23/84	0	1	
WHIS0167	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	05/30/84-05/30/84	0	1	
WHIS0168	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	05/30/84-05/30/84	0	1	
WHIS0169	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	05/30/84-06/13/84	0	2	
WHIS0171	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	05/23/84-05/23/84	0	1	
WHIS0176	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	05/30/84-05/30/84	0	1	
WHIS0187	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	12/30/83-05/08/84	0	18	
WHIS0189	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	09/01/83-09/01/83	0	1	
WHIS0002	No	01020	BORON, DISSOLVED (UG/L AS B)	02/11/52-09/24/85	33	68	T,S
WHIS0003	No	01020	BORON, DISSOLVED (UG/L AS B)	10/10/60-09/02/66	5	72	
WHIS0029	Yes	01020	BORON, DISSOLVED (UG/L AS B)	08/19/81-06/02/94	12	22	
WHIS0045	Yes	01020	BORON, DISSOLVED (UG/L AS B)	11/15/62-11/15/62	0	1	
WHIS0046	Yes	01020	BORON, DISSOLVED (UG/L AS B)	05/24/68-05/24/68	0	1	
WHIS0092	Yes	01020	BORON, DISSOLVED (UG/L AS B)	11/14/62-11/14/62	0	1	
WHIS0106	Yes	01020	BORON, DISSOLVED (UG/L AS B)	05/23/68-05/23/68	0	1	
WHIS0131	Yes	01020	BORON, DISSOLVED (UG/L AS B)	11/15/62-11/15/62	0	1	
WHIS0142	No	01020	BORON, DISSOLVED (UG/L AS B)	09/29/83-09/29/83	0	1	
WHIS0145	No	01020	BORON, DISSOLVED (UG/L AS B)	09/29/83-09/29/83	0	1	
WHIS0149	Yes	01020	BORON, DISSOLVED (UG/L AS B)	05/24/68-05/24/68	0	1	
WHIS0154	Yes	01020	BORON, DISSOLVED (UG/L AS B)	06/22/77-03/03/83	5	3	
WHIS0163	No	01020	BORON, DISSOLVED (UG/L AS B)	09/26/83-09/26/83	0	1	
WHIS0173	Yes	01020	BORON, DISSOLVED (UG/L AS B)	05/21/68-05/21/68	0	1	
WHIS0189	No	01020	BORON, DISSOLVED (UG/L AS B)	09/01/83-09/01/83	0	1	
WHIS0008	Yes	01022	BORON, TOTAL (UG/L AS B)	06/05/97-11/20/98	1	6	
WHIS0002	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	05/24/71-05/24/71	0	1	
WHIS0097	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	01/04/84-06/28/84	0	11	
WHIS0102	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	01/04/84-05/08/84	0	19	
WHIS0163	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	01/04/84-05/08/84	0	19	
WHIS0002	No	01027	CADMIUM, TOTAL (UG/L AS CD)	04/18/74-04/18/74	0	1	
WHIS0008	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	11/18/96-11/20/98	2	7	
WHIS0015	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	10/07/97-11/13/97	0	2	
WHIS0029	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	09/30/86-06/02/94	7	15	
WHIS0030	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	09/22/86-02/16/94	7	6	
WHIS0033	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	10/08/97-12/02/97	0	6	
WHIS0042	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	04/16/84-02/11/91	6	3	
WHIS0054	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	07/10/92-07/10/92	0	1	
WHIS0058	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	01/31/79-01/31/79	0	1	
WHIS0067	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	08/13/97-01/06/98	0	6	
WHIS0081	No	01027	CADMIUM, TOTAL (UG/L AS CD)	03/11/75-10/13/78	3	21	
WHIS0097	No	01027	CADMIUM, TOTAL (UG/L AS CD)	01/04/84-06/28/84	0	13	
WHIS0102	No	01027	CADMIUM, TOTAL (UG/L AS CD)	01/04/84-06/05/84	0	21	
WHIS0111	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	10/07/81-10/07/81	0	1	
WHIS0112	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	06/20/77-06/20/77	0	1	
WHIS0113	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	11/13/97-12/03/97	0	2	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 11/20/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
WHIS0119	No	01027	CADMIUM, TOTAL (UG/L AS CD)	06/13/84-06/13/84	0	1	
WHIS0124	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	04/16/84-04/03/86	1	2	
WHIS0127	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	03/07/85-02/27/92	6	3	
WHIS0128	No	01027	CADMIUM, TOTAL (UG/L AS CD)	06/13/84-06/13/84	0	1	
WHIS0136	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	07/25/90-07/25/90	0	1	
WHIS0141	No	01027	CADMIUM, TOTAL (UG/L AS CD)	05/23/84-05/23/84	0	1	
WHIS0142	No	01027	CADMIUM, TOTAL (UG/L AS CD)	09/29/83-06/13/84	0	4	
WHIS0145	No	01027	CADMIUM, TOTAL (UG/L AS CD)	09/29/83-05/23/84	0	2	
WHIS0146	No	01027	CADMIUM, TOTAL (UG/L AS CD)	06/13/84-06/13/84	0	1	
WHIS0147	No	01027	CADMIUM, TOTAL (UG/L AS CD)	06/13/84-06/13/84	0	1	
WHIS0150	No	01027	CADMIUM, TOTAL (UG/L AS CD)	05/23/84-05/23/84	0	1	
WHIS0152	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	10/07/97-11/13/97	0	2	
WHIS0154	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	08/11/77-08/11/77	0	1	
WHIS0155	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	07/19/90-07/19/90	0	1	
WHIS0156	No	01027	CADMIUM, TOTAL (UG/L AS CD)	06/13/84-06/13/84	0	1	
WHIS0157	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	10/07/97-11/13/97	0	2	
WHIS0160	No	01027	CADMIUM, TOTAL (UG/L AS CD)	06/13/84-06/13/84	0	1	
WHIS0161	No	01027	CADMIUM, TOTAL (UG/L AS CD)	06/13/84-06/13/84	0	1	
WHIS0163	No	01027	CADMIUM, TOTAL (UG/L AS CD)	09/26/83-06/05/84	0	21	
WHIS0166	No	01027	CADMIUM, TOTAL (UG/L AS CD)	05/23/84-05/23/84	0	1	
WHIS0167	No	01027	CADMIUM, TOTAL (UG/L AS CD)	05/30/84-05/30/84	0	1	
WHIS0168	No	01027	CADMIUM, TOTAL (UG/L AS CD)	05/30/84-05/30/84	0	1	
WHIS0169	No	01027	CADMIUM, TOTAL (UG/L AS CD)	05/30/84-06/13/84	0	2	
WHIS0176	No	01027	CADMIUM, TOTAL (UG/L AS CD)	05/30/84-05/30/84	0	1	
WHIS0187	No	01027	CADMIUM, TOTAL (UG/L AS CD)	12/30/83-05/08/84	0	18	
WHIS0189	No	01027	CADMIUM, TOTAL (UG/L AS CD)	09/01/83-09/01/83	0	1	
WHIS0195	No	01027	CADMIUM, TOTAL (UG/L AS CD)	10/07/97-11/13/97	0	2	
WHIS0197	No	01027	CADMIUM, TOTAL (UG/L AS CD)	10/07/97-11/13/97	0	2	
WHIS0002	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/21/58-05/08/61	2	6	
WHIS0008	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	11/18/96-11/20/98	2	7	
WHIS0015	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	10/07/97-11/13/97	0	2	
WHIS0029	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	09/30/86-06/02/94	7	15	
WHIS0030	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	09/22/86-02/16/94	7	6	
WHIS0033	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	10/08/97-12/02/97	0	6	
WHIS0042	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	04/16/84-02/11/91	6	3	
WHIS0054	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	07/10/92-07/10/92	0	1	
WHIS0058	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	01/31/79-01/31/79	0	1	
WHIS0067	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	08/13/97-01/06/98	0	6	
WHIS0097	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	05/22/84-05/22/84	0	1	
WHIS0102	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	05/22/84-06/05/84	0	2	
WHIS0111	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	10/07/81-10/07/81	0	1	
WHIS0112	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	06/20/77-06/20/77	0	1	
WHIS0113	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	11/13/97-12/03/97	0	2	
WHIS0119	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	06/13/84-06/13/84	0	1	
WHIS0124	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	04/16/84-04/03/86	1	2	
WHIS0127	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	03/07/85-02/27/92	6	3	
WHIS0128	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	06/13/84-06/13/84	0	1	
WHIS0141	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	05/23/84-05/23/84	0	1	
WHIS0142	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	09/29/83-06/13/84	0	4	
WHIS0145	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	09/29/83-05/23/84	0	2	
WHIS0146	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	06/13/84-06/13/84	0	1	
WHIS0147	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	06/13/84-06/13/84	0	1	
WHIS0150	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	05/23/84-05/23/84	0	1	
WHIS0152	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	10/07/97-11/13/97	0	2	
WHIS0156	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	06/13/84-06/13/84	0	1	
WHIS0157	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	10/07/97-11/13/97	0	2	
WHIS0160	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	06/13/84-06/13/84	0	1	
WHIS0161	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	06/13/84-06/13/84	0	1	
WHIS0163	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	09/26/83-05/22/84	0	2	
WHIS0166	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	05/23/84-05/23/84	0	1	
WHIS0167	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	05/30/84-05/30/84	0	1	
WHIS0169	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	05/30/84-06/13/84	0	2	
WHIS0171	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	05/23/84-05/23/84	0	1	
WHIS0176	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	05/30/84-05/30/84	0	1	
WHIS0187	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	12/30/83-05/08/84	0	18	
WHIS0189	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	09/01/83-09/01/83	0	1	
WHIS0195	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	10/07/97-11/13/97	0	2	
WHIS0197	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	10/07/97-11/13/97	0	2	
WHIS0097	No	01037	COBALT, TOTAL (UG/L AS CO)	05/22/84-06/05/84	0	2	
WHIS0102	No	01037	COBALT, TOTAL (UG/L AS CO)	05/22/84-06/05/84	0	2	
WHIS0119	No	01037	COBALT, TOTAL (UG/L AS CO)	06/13/84-06/13/84	0	1	
WHIS0128	No	01037	COBALT, TOTAL (UG/L AS CO)	06/13/84-06/13/84	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 11/20/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
WHIS0141	No	01037	COBALT, TOTAL (UG/L AS CO)	05/23/84-05/23/84	0	1	
WHIS0142	No	01037	COBALT, TOTAL (UG/L AS CO)	09/29/83-06/13/84	0	4	
WHIS0145	No	01037	COBALT, TOTAL (UG/L AS CO)	09/29/83-05/23/84	0	2	
WHIS0146	No	01037	COBALT, TOTAL (UG/L AS CO)	06/13/84-06/13/84	0	1	
WHIS0147	No	01037	COBALT, TOTAL (UG/L AS CO)	06/13/84-06/13/84	0	1	
WHIS0150	No	01037	COBALT, TOTAL (UG/L AS CO)	05/23/84-05/23/84	0	1	
WHIS0156	No	01037	COBALT, TOTAL (UG/L AS CO)	06/13/84-06/13/84	0	1	
WHIS0160	No	01037	COBALT, TOTAL (UG/L AS CO)	06/13/84-06/13/84	0	1	
WHIS0161	No	01037	COBALT, TOTAL (UG/L AS CO)	06/13/84-06/13/84	0	1	
WHIS0163	No	01037	COBALT, TOTAL (UG/L AS CO)	09/26/83-06/05/84	0	3	
WHIS0166	No	01037	COBALT, TOTAL (UG/L AS CO)	05/23/84-05/23/84	0	1	
WHIS0167	No	01037	COBALT, TOTAL (UG/L AS CO)	05/30/84-05/30/84	0	1	
WHIS0168	No	01037	COBALT, TOTAL (UG/L AS CO)	05/30/84-05/30/84	0	1	
WHIS0169	No	01037	COBALT, TOTAL (UG/L AS CO)	05/30/84-06/13/84	0	2	
WHIS0171	No	01037	COBALT, TOTAL (UG/L AS CO)	05/23/84-05/23/84	0	1	
WHIS0176	No	01037	COBALT, TOTAL (UG/L AS CO)	05/30/84-05/30/84	0	1	
WHIS0187	No	01037	COBALT, TOTAL (UG/L AS CO)	12/30/83-05/08/84	0	18	
WHIS0189	No	01037	COBALT, TOTAL (UG/L AS CO)	09/01/83-09/01/83	0	1	
WHIS0002	No	01040	COPPER, DISSOLVED (UG/L AS CU)	01/27/55-09/07/61	6	9	
WHIS0046	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	05/24/68-05/24/68	0	1	
WHIS0081	No	01040	COPPER, DISSOLVED (UG/L AS CU)	02/12/73-09/11/73	0	3	
WHIS0097	No	01040	COPPER, DISSOLVED (UG/L AS CU)	01/04/84-06/28/84	0	11	
WHIS0102	No	01040	COPPER, DISSOLVED (UG/L AS CU)	01/04/84-05/08/84	0	19	
WHIS0106	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	05/23/68-05/23/68	0	1	
WHIS0149	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	05/24/68-05/24/68	0	1	
WHIS0163	No	01040	COPPER, DISSOLVED (UG/L AS CU)	01/04/84-05/08/84	0	19	
WHIS0164	No	01040	COPPER, DISSOLVED (UG/L AS CU)	06/09/52-04/27/55	2	2	
WHIS0173	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	05/21/68-05/21/68	0	1	
WHIS0002	No	01042	COPPER, TOTAL (UG/L AS CU)	04/18/74-04/18/74	0	1	
WHIS0008	Yes	01042	COPPER, TOTAL (UG/L AS CU)	11/18/96-11/20/98	2	7	
WHIS0015	Yes	01042	COPPER, TOTAL (UG/L AS CU)	10/07/97-11/13/97	0	2	
WHIS0029	Yes	01042	COPPER, TOTAL (UG/L AS CU)	09/30/86-06/02/94	7	15	
WHIS0030	Yes	01042	COPPER, TOTAL (UG/L AS CU)	09/22/86-02/16/94	7	6	
WHIS0033	Yes	01042	COPPER, TOTAL (UG/L AS CU)	10/08/97-12/02/97	0	6	
WHIS0042	Yes	01042	COPPER, TOTAL (UG/L AS CU)	04/16/84-02/11/91	6	3	
WHIS0054	Yes	01042	COPPER, TOTAL (UG/L AS CU)	07/10/92-07/10/92	0	1	
WHIS0058	Yes	01042	COPPER, TOTAL (UG/L AS CU)	01/31/79-01/31/79	0	1	
WHIS0067	Yes	01042	COPPER, TOTAL (UG/L AS CU)	08/13/97-01/06/98	0	6	
WHIS0078	No	01042	COPPER, TOTAL (UG/L AS CU)	02/15/86-03/20/93	7	131	
WHIS0081	No	01042	COPPER, TOTAL (UG/L AS CU)	01/09/73-04/06/79	6	48	
WHIS0082	No	01042	COPPER, TOTAL (UG/L AS CU)	03/24/69-03/31/94	25	2657	T,A,S
WHIS0083	No	01042	COPPER, TOTAL (UG/L AS CU)	01/21/76-03/19/93	17	185	T,S
WHIS0084	No	01042	COPPER, TOTAL (UG/L AS CU)	12/11/69-03/31/94	24	659	T,A,S
WHIS0097	No	01042	COPPER, TOTAL (UG/L AS CU)	01/04/84-06/28/84	0	13	
WHIS0102	No	01042	COPPER, TOTAL (UG/L AS CU)	01/04/84-06/05/84	0	21	
WHIS0111	Yes	01042	COPPER, TOTAL (UG/L AS CU)	10/07/81-10/07/81	0	1	
WHIS0112	Yes	01042	COPPER, TOTAL (UG/L AS CU)	06/20/77-06/20/77	0	1	
WHIS0113	Yes	01042	COPPER, TOTAL (UG/L AS CU)	11/13/97-12/03/97	0	2	
WHIS0119	No	01042	COPPER, TOTAL (UG/L AS CU)	06/13/84-06/13/84	0	1	
WHIS0124	Yes	01042	COPPER, TOTAL (UG/L AS CU)	04/16/84-04/03/86	1	2	
WHIS0126	Yes	01042	COPPER, TOTAL (UG/L AS CU)	06/05/75-06/05/75	0	1	
WHIS0127	Yes	01042	COPPER, TOTAL (UG/L AS CU)	03/07/85-02/27/92	6	3	
WHIS0128	No	01042	COPPER, TOTAL (UG/L AS CU)	06/13/84-06/13/84	0	1	
WHIS0136	Yes	01042	COPPER, TOTAL (UG/L AS CU)	07/25/90-07/25/90	0	1	
WHIS0139	Yes	01042	COPPER, TOTAL (UG/L AS CU)	06/05/75-06/05/75	0	1	
WHIS0141	No	01042	COPPER, TOTAL (UG/L AS CU)	05/23/84-05/23/84	0	1	
WHIS0142	No	01042	COPPER, TOTAL (UG/L AS CU)	05/23/84-06/13/84	0	3	
WHIS0145	No	01042	COPPER, TOTAL (UG/L AS CU)	09/29/83-05/23/84	0	2	
WHIS0147	No	01042	COPPER, TOTAL (UG/L AS CU)	06/13/84-06/13/84	0	1	
WHIS0150	No	01042	COPPER, TOTAL (UG/L AS CU)	05/23/84-05/23/84	0	1	
WHIS0152	Yes	01042	COPPER, TOTAL (UG/L AS CU)	10/07/97-11/13/97	0	2	
WHIS0153	Yes	01042	COPPER, TOTAL (UG/L AS CU)	06/05/75-06/05/75	0	1	
WHIS0154	Yes	01042	COPPER, TOTAL (UG/L AS CU)	08/11/77-08/11/77	0	1	
WHIS0155	Yes	01042	COPPER, TOTAL (UG/L AS CU)	07/19/90-07/19/90	0	1	
WHIS0156	No	01042	COPPER, TOTAL (UG/L AS CU)	06/13/84-06/13/84	0	1	
WHIS0157	Yes	01042	COPPER, TOTAL (UG/L AS CU)	10/07/97-11/13/97	0	2	
WHIS0160	No	01042	COPPER, TOTAL (UG/L AS CU)	06/13/84-06/13/84	0	1	
WHIS0161	No	01042	COPPER, TOTAL (UG/L AS CU)	06/13/84-06/13/84	0	1	
WHIS0163	No	01042	COPPER, TOTAL (UG/L AS CU)	09/26/83-06/05/84	0	22	
WHIS0166	No	01042	COPPER, TOTAL (UG/L AS CU)	05/23/84-05/23/84	0	1	
WHIS0167	No	01042	COPPER, TOTAL (UG/L AS CU)	05/30/84-05/30/84	0	1	
WHIS0168	No	01042	COPPER, TOTAL (UG/L AS CU)	05/30/84-05/30/84	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 11/20/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
WHIS0169	No	01042	COPPER, TOTAL (UG/L AS CU)	05/30/84-06/13/84	0	2	
WHIS0170	Yes	01042	COPPER, TOTAL (UG/L AS CU)	06/05/75-06/05/75	0	1	
WHIS0171	No	01042	COPPER, TOTAL (UG/L AS CU)	05/23/84-05/23/84	0	1	
WHIS0176	No	01042	COPPER, TOTAL (UG/L AS CU)	05/30/84-05/30/84	0	1	
WHIS0187	No	01042	COPPER, TOTAL (UG/L AS CU)	12/30/83-05/08/84	0	18	
WHIS0189	No	01042	COPPER, TOTAL (UG/L AS CU)	09/01/83-09/01/83	0	1	
WHIS0195	No	01042	COPPER, TOTAL (UG/L AS CU)	10/07/97-11/13/97	0	2	
WHIS0197	No	01042	COPPER, TOTAL (UG/L AS CU)	10/07/97-11/13/97	0	2	
WHIS0002	No	01045	IRON, TOTAL (UG/L AS FE)	09/07/61-04/18/74	12	2	
WHIS0008	Yes	01045	IRON, TOTAL (UG/L AS FE)	11/18/96-11/20/98	2	7	
WHIS0015	Yes	01045	IRON, TOTAL (UG/L AS FE)	10/07/97-11/13/97	0	2	
WHIS0029	Yes	01045	IRON, TOTAL (UG/L AS FE)	09/30/86-06/02/94	7	15	
WHIS0030	Yes	01045	IRON, TOTAL (UG/L AS FE)	09/22/86-02/16/94	7	6	
WHIS0033	Yes	01045	IRON, TOTAL (UG/L AS FE)	10/08/97-12/02/97	0	6	
WHIS0042	Yes	01045	IRON, TOTAL (UG/L AS FE)	04/16/84-02/11/91	6	3	
WHIS0054	Yes	01045	IRON, TOTAL (UG/L AS FE)	07/10/92-07/10/92	0	1	
WHIS0058	Yes	01045	IRON, TOTAL (UG/L AS FE)	01/31/79-01/31/79	0	1	
WHIS0067	Yes	01045	IRON, TOTAL (UG/L AS FE)	08/13/97-01/06/98	0	6	
WHIS0097	No	01045	IRON, TOTAL (UG/L AS FE)	01/04/84-06/28/84	0	13	
WHIS0102	No	01045	IRON, TOTAL (UG/L AS FE)	01/04/84-06/05/84	0	21	
WHIS0111	Yes	01045	IRON, TOTAL (UG/L AS FE)	10/07/81-10/07/81	0	1	
WHIS0112	Yes	01045	IRON, TOTAL (UG/L AS FE)	06/20/77-06/20/77	0	1	
WHIS0113	Yes	01045	IRON, TOTAL (UG/L AS FE)	11/13/97-12/03/97	0	2	
WHIS0119	No	01045	IRON, TOTAL (UG/L AS FE)	06/13/84-06/13/84	0	1	
WHIS0124	Yes	01045	IRON, TOTAL (UG/L AS FE)	04/16/84-04/03/86	1	2	
WHIS0126	Yes	01045	IRON, TOTAL (UG/L AS FE)	06/05/75-06/05/75	0	1	
WHIS0127	Yes	01045	IRON, TOTAL (UG/L AS FE)	03/07/85-02/27/92	6	3	
WHIS0128	No	01045	IRON, TOTAL (UG/L AS FE)	06/13/84-06/13/84	0	1	
WHIS0139	Yes	01045	IRON, TOTAL (UG/L AS FE)	06/05/75-06/05/75	0	1	
WHIS0141	No	01045	IRON, TOTAL (UG/L AS FE)	05/23/84-05/23/84	0	1	
WHIS0142	No	01045	IRON, TOTAL (UG/L AS FE)	05/23/84-06/13/84	0	3	
WHIS0145	No	01045	IRON, TOTAL (UG/L AS FE)	05/23/84-05/23/84	0	1	
WHIS0146	No	01045	IRON, TOTAL (UG/L AS FE)	06/13/84-06/13/84	0	1	
WHIS0147	No	01045	IRON, TOTAL (UG/L AS FE)	06/13/84-06/13/84	0	1	
WHIS0150	No	01045	IRON, TOTAL (UG/L AS FE)	05/23/84-05/23/84	0	1	
WHIS0152	Yes	01045	IRON, TOTAL (UG/L AS FE)	10/07/97-11/13/97	0	2	
WHIS0153	Yes	01045	IRON, TOTAL (UG/L AS FE)	06/05/75-06/05/75	0	1	
WHIS0154	Yes	01045	IRON, TOTAL (UG/L AS FE)	08/11/77-08/11/77	0	1	
WHIS0156	No	01045	IRON, TOTAL (UG/L AS FE)	06/13/84-06/13/84	0	1	
WHIS0157	Yes	01045	IRON, TOTAL (UG/L AS FE)	10/07/97-11/13/97	0	2	
WHIS0160	No	01045	IRON, TOTAL (UG/L AS FE)	06/13/84-06/13/84	0	1	
WHIS0161	No	01045	IRON, TOTAL (UG/L AS FE)	06/13/84-06/13/84	0	1	
WHIS0163	No	01045	IRON, TOTAL (UG/L AS FE)	09/26/83-06/05/84	0	21	
WHIS0166	No	01045	IRON, TOTAL (UG/L AS FE)	05/23/84-05/23/84	0	1	
WHIS0167	No	01045	IRON, TOTAL (UG/L AS FE)	05/30/84-05/30/84	0	1	
WHIS0168	No	01045	IRON, TOTAL (UG/L AS FE)	05/30/84-05/30/84	0	1	
WHIS0169	No	01045	IRON, TOTAL (UG/L AS FE)	05/30/84-06/13/84	0	2	
WHIS0170	Yes	01045	IRON, TOTAL (UG/L AS FE)	06/05/75-06/05/75	0	1	
WHIS0171	No	01045	IRON, TOTAL (UG/L AS FE)	05/23/84-05/23/84	0	1	
WHIS0176	No	01045	IRON, TOTAL (UG/L AS FE)	05/30/84-05/30/84	0	1	
WHIS0187	No	01045	IRON, TOTAL (UG/L AS FE)	12/30/83-05/08/84	0	18	
WHIS0195	No	01045	IRON, TOTAL (UG/L AS FE)	10/07/97-11/13/97	0	2	
WHIS0197	No	01045	IRON, TOTAL (UG/L AS FE)	10/07/97-11/13/97	0	2	
WHIS0002	No	01046	IRON, DISSOLVED (UG/L AS FE)	01/27/55-05/08/61	6	8	
WHIS0045	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	11/15/62-11/15/62	0	1	
WHIS0046	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	05/24/68-05/24/68	0	1	
WHIS0092	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	11/14/62-11/14/62	0	1	
WHIS0106	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	05/23/68-05/23/68	0	1	
WHIS0131	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	11/15/62-11/15/62	0	1	
WHIS0149	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	05/24/68-05/24/68	0	1	
WHIS0173	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	05/21/68-05/21/68	0	1	
WHIS0097	No	01047	IRON, FERROUS (UG/L AS FE)	01/04/84-06/28/84	0	13	
WHIS0102	No	01047	IRON, FERROUS (UG/L AS FE)	01/04/84-05/22/84	0	20	
WHIS0119	No	01047	IRON, FERROUS (UG/L AS FE)	06/13/84-06/13/84	0	1	
WHIS0128	No	01047	IRON, FERROUS (UG/L AS FE)	06/13/84-06/13/84	0	1	
WHIS0141	No	01047	IRON, FERROUS (UG/L AS FE)	05/23/84-05/23/84	0	1	
WHIS0142	No	01047	IRON, FERROUS (UG/L AS FE)	05/23/84-06/13/84	0	3	
WHIS0145	No	01047	IRON, FERROUS (UG/L AS FE)	05/23/84-05/23/84	0	1	
WHIS0146	No	01047	IRON, FERROUS (UG/L AS FE)	06/13/84-06/13/84	0	1	
WHIS0147	No	01047	IRON, FERROUS (UG/L AS FE)	06/13/84-06/13/84	0	1	
WHIS0150	No	01047	IRON, FERROUS (UG/L AS FE)	05/23/84-05/23/84	0	1	
WHIS0156	No	01047	IRON, FERROUS (UG/L AS FE)	06/13/84-06/13/84	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 11/20/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
WHIS0160	No	01047	IRON, FERROUS (UG/L AS FE)	06/13/84-06/13/84	0	1	
WHIS0161	No	01047	IRON, FERROUS (UG/L AS FE)	06/13/84-06/13/84	0	1	
WHIS0163	No	01047	IRON, FERROUS (UG/L AS FE)	01/04/84-06/05/84	0	20	
WHIS0166	No	01047	IRON, FERROUS (UG/L AS FE)	05/23/84-05/23/84	0	1	
WHIS0167	No	01047	IRON, FERROUS (UG/L AS FE)	05/30/84-05/30/84	0	1	
WHIS0168	No	01047	IRON, FERROUS (UG/L AS FE)	05/30/84-05/30/84	0	1	
WHIS0169	No	01047	IRON, FERROUS (UG/L AS FE)	05/30/84-06/13/84	0	2	
WHIS0171	No	01047	IRON, FERROUS (UG/L AS FE)	05/23/84-05/23/84	0	1	
WHIS0176	No	01047	IRON, FERROUS (UG/L AS FE)	05/30/84-05/30/84	0	1	
WHIS0187	No	01047	IRON, FERROUS (UG/L AS FE)	12/30/83-05/08/84	0	18	
WHIS0002	No	01049	LEAD, DISSOLVED (UG/L AS PB)	01/27/55-05/24/71	16	10	
WHIS0002	No	01051	LEAD, TOTAL (UG/L AS PB)	04/18/74-04/18/74	0	1	
WHIS0008	Yes	01051	LEAD, TOTAL (UG/L AS PB)	11/18/96-11/20/98	2	7	
WHIS0015	Yes	01051	LEAD, TOTAL (UG/L AS PB)	10/07/97-11/13/97	0	2	
WHIS0029	Yes	01051	LEAD, TOTAL (UG/L AS PB)	09/30/86-06/02/94	7	15	
WHIS0030	Yes	01051	LEAD, TOTAL (UG/L AS PB)	09/22/86-02/16/94	7	6	
WHIS0033	Yes	01051	LEAD, TOTAL (UG/L AS PB)	10/08/97-12/02/97	0	6	
WHIS0042	Yes	01051	LEAD, TOTAL (UG/L AS PB)	04/16/84-02/11/91	6	3	
WHIS0054	Yes	01051	LEAD, TOTAL (UG/L AS PB)	07/10/92-07/10/92	0	1	
WHIS0058	Yes	01051	LEAD, TOTAL (UG/L AS PB)	01/31/79-01/31/79	0	1	
WHIS0067	Yes	01051	LEAD, TOTAL (UG/L AS PB)	08/13/97-01/06/98	0	6	
WHIS0097	No	01051	LEAD, TOTAL (UG/L AS PB)	05/22/84-06/05/84	0	2	
WHIS0102	No	01051	LEAD, TOTAL (UG/L AS PB)	05/22/84-06/05/84	0	2	
WHIS0111	Yes	01051	LEAD, TOTAL (UG/L AS PB)	10/07/81-10/07/81	0	1	
WHIS0112	Yes	01051	LEAD, TOTAL (UG/L AS PB)	06/20/77-06/20/77	0	1	
WHIS0113	Yes	01051	LEAD, TOTAL (UG/L AS PB)	11/13/97-12/03/97	0	2	
WHIS0119	No	01051	LEAD, TOTAL (UG/L AS PB)	06/13/84-06/13/84	0	1	
WHIS0124	Yes	01051	LEAD, TOTAL (UG/L AS PB)	04/16/84-04/03/86	1	2	
WHIS0127	Yes	01051	LEAD, TOTAL (UG/L AS PB)	03/07/85-02/27/92	6	3	
WHIS0128	No	01051	LEAD, TOTAL (UG/L AS PB)	06/13/84-06/13/84	0	1	
WHIS0141	No	01051	LEAD, TOTAL (UG/L AS PB)	05/23/84-05/23/84	0	1	
WHIS0142	No	01051	LEAD, TOTAL (UG/L AS PB)	09/29/83-06/13/84	0	4	
WHIS0145	No	01051	LEAD, TOTAL (UG/L AS PB)	09/29/83-05/23/84	0	2	
WHIS0146	No	01051	LEAD, TOTAL (UG/L AS PB)	06/13/84-06/13/84	0	1	
WHIS0147	No	01051	LEAD, TOTAL (UG/L AS PB)	06/13/84-06/13/84	0	1	
WHIS0150	No	01051	LEAD, TOTAL (UG/L AS PB)	05/23/84-05/23/84	0	1	
WHIS0152	Yes	01051	LEAD, TOTAL (UG/L AS PB)	10/07/97-11/13/97	0	2	
WHIS0154	Yes	01051	LEAD, TOTAL (UG/L AS PB)	08/11/77-08/11/77	0	1	
WHIS0156	No	01051	LEAD, TOTAL (UG/L AS PB)	06/13/84-06/13/84	0	1	
WHIS0157	Yes	01051	LEAD, TOTAL (UG/L AS PB)	10/07/97-11/13/97	0	2	
WHIS0160	No	01051	LEAD, TOTAL (UG/L AS PB)	06/13/84-06/13/84	0	1	
WHIS0161	No	01051	LEAD, TOTAL (UG/L AS PB)	06/13/84-06/13/84	0	1	
WHIS0163	No	01051	LEAD, TOTAL (UG/L AS PB)	09/26/83-05/22/84	0	2	
WHIS0166	No	01051	LEAD, TOTAL (UG/L AS PB)	05/23/84-05/23/84	0	1	
WHIS0167	No	01051	LEAD, TOTAL (UG/L AS PB)	05/30/84-05/30/84	0	1	
WHIS0168	No	01051	LEAD, TOTAL (UG/L AS PB)	05/30/84-05/30/84	0	1	
WHIS0169	No	01051	LEAD, TOTAL (UG/L AS PB)	05/30/84-06/13/84	0	2	
WHIS0171	No	01051	LEAD, TOTAL (UG/L AS PB)	05/23/84-05/23/84	0	1	
WHIS0176	No	01051	LEAD, TOTAL (UG/L AS PB)	05/30/84-05/30/84	0	1	
WHIS0187	No	01051	LEAD, TOTAL (UG/L AS PB)	12/30/83-05/08/84	0	18	
WHIS0189	No	01051	LEAD, TOTAL (UG/L AS PB)	09/01/83-09/01/83	0	1	
WHIS0195	No	01051	LEAD, TOTAL (UG/L AS PB)	10/07/97-11/13/97	0	2	
WHIS0197	No	01051	LEAD, TOTAL (UG/L AS PB)	10/07/97-11/13/97	0	2	
WHIS0002	No	01055	MANGANESE, TOTAL (UG/L AS MN)	04/18/74-04/18/74	0	1	
WHIS0015	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	10/07/97-11/13/97	0	2	
WHIS0029	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	09/30/86-06/02/94	7	15	
WHIS0030	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	09/22/86-02/16/94	7	6	
WHIS0033	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	10/08/97-12/02/97	0	6	
WHIS0042	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	04/16/84-02/11/91	6	3	
WHIS0054	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	07/10/92-07/10/92	0	1	
WHIS0058	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	01/31/79-01/31/79	0	1	
WHIS0067	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	08/13/97-01/06/98	0	6	
WHIS0097	No	01055	MANGANESE, TOTAL (UG/L AS MN)	05/22/84-06/05/84	0	2	
WHIS0102	No	01055	MANGANESE, TOTAL (UG/L AS MN)	05/22/84-06/05/84	0	2	
WHIS0111	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	10/07/81-10/07/81	0	1	
WHIS0112	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	06/20/77-06/20/77	0	1	
WHIS0113	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	11/13/97-12/03/97	0	2	
WHIS0119	No	01055	MANGANESE, TOTAL (UG/L AS MN)	06/13/84-06/13/84	0	1	
WHIS0124	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	04/16/84-04/03/86	1	2	
WHIS0126	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	06/05/75-06/05/75	0	1	
WHIS0127	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	03/07/85-02/27/92	6	3	
WHIS0128	No	01055	MANGANESE, TOTAL (UG/L AS MN)	06/13/84-06/13/84	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 11/20/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
WHIS0139	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	06/05/75-06/05/75	0	1	
WHIS0141	No	01055	MANGANESE, TOTAL (UG/L AS MN)	05/23/84-05/23/84	0	1	
WHIS0142	No	01055	MANGANESE, TOTAL (UG/L AS MN)	09/29/83-06/13/84	0	4	
WHIS0145	No	01055	MANGANESE, TOTAL (UG/L AS MN)	09/29/83-05/23/84	0	2	
WHIS0146	No	01055	MANGANESE, TOTAL (UG/L AS MN)	06/13/84-06/13/84	0	1	
WHIS0147	No	01055	MANGANESE, TOTAL (UG/L AS MN)	06/13/84-06/13/84	0	1	
WHIS0150	No	01055	MANGANESE, TOTAL (UG/L AS MN)	05/23/84-05/23/84	0	1	
WHIS0152	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	10/07/97-11/13/97	0	2	
WHIS0153	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	06/05/75-06/05/75	0	1	
WHIS0154	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	08/11/77-08/11/77	0	1	
WHIS0156	No	01055	MANGANESE, TOTAL (UG/L AS MN)	06/13/84-06/13/84	0	1	
WHIS0157	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	10/07/97-11/13/97	0	2	
WHIS0160	No	01055	MANGANESE, TOTAL (UG/L AS MN)	06/13/84-06/13/84	0	1	
WHIS0161	No	01055	MANGANESE, TOTAL (UG/L AS MN)	06/13/84-06/13/84	0	1	
WHIS0163	No	01055	MANGANESE, TOTAL (UG/L AS MN)	09/26/83-06/05/84	0	3	
WHIS0166	No	01055	MANGANESE, TOTAL (UG/L AS MN)	05/23/84-05/23/84	0	1	
WHIS0167	No	01055	MANGANESE, TOTAL (UG/L AS MN)	05/30/84-05/30/84	0	1	
WHIS0168	No	01055	MANGANESE, TOTAL (UG/L AS MN)	05/30/84-05/30/84	0	1	
WHIS0169	No	01055	MANGANESE, TOTAL (UG/L AS MN)	05/30/84-06/13/84	0	2	
WHIS0170	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	06/05/75-06/05/75	0	1	
WHIS0171	No	01055	MANGANESE, TOTAL (UG/L AS MN)	05/23/84-05/23/84	0	1	
WHIS0176	No	01055	MANGANESE, TOTAL (UG/L AS MN)	05/30/84-05/30/84	0	1	
WHIS0187	No	01055	MANGANESE, TOTAL (UG/L AS MN)	12/30/83-05/08/84	0	18	
WHIS0189	No	01055	MANGANESE, TOTAL (UG/L AS MN)	09/01/83-09/01/83	0	1	
WHIS0195	No	01055	MANGANESE, TOTAL (UG/L AS MN)	10/07/97-11/13/97	0	2	
WHIS0197	No	01055	MANGANESE, TOTAL (UG/L AS MN)	10/07/97-11/13/97	0	2	
WHIS0002	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	01/27/55-09/07/61	6	9	
WHIS0008	Yes	01059	THALLIUM, TOTAL (UG/L AS TL)	11/18/96-11/20/98	2	7	
WHIS0030	Yes	01059	THALLIUM, TOTAL (UG/L AS TL)	07/18/96-07/18/96	0	1	
WHIS0054	Yes	01059	THALLIUM, TOTAL (UG/L AS TL)	07/23/96-07/23/96	0	1	
WHIS0097	No	01059	THALLIUM, TOTAL (UG/L AS TL)	05/22/84-06/05/84	0	2	
WHIS0102	No	01059	THALLIUM, TOTAL (UG/L AS TL)	05/22/84-06/05/84	0	2	
WHIS0119	No	01059	THALLIUM, TOTAL (UG/L AS TL)	06/13/84-06/13/84	0	1	
WHIS0128	No	01059	THALLIUM, TOTAL (UG/L AS TL)	06/13/84-06/13/84	0	1	
WHIS0141	No	01059	THALLIUM, TOTAL (UG/L AS TL)	05/23/84-05/23/84	0	1	
WHIS0142	No	01059	THALLIUM, TOTAL (UG/L AS TL)	09/29/83-06/13/84	0	4	
WHIS0145	No	01059	THALLIUM, TOTAL (UG/L AS TL)	09/29/83-05/23/84	0	2	
WHIS0146	No	01059	THALLIUM, TOTAL (UG/L AS TL)	06/13/84-06/13/84	0	1	
WHIS0147	No	01059	THALLIUM, TOTAL (UG/L AS TL)	06/13/84-06/13/84	0	1	
WHIS0150	No	01059	THALLIUM, TOTAL (UG/L AS TL)	05/23/84-05/23/84	0	1	
WHIS0156	No	01059	THALLIUM, TOTAL (UG/L AS TL)	06/13/84-06/13/84	0	1	
WHIS0160	No	01059	THALLIUM, TOTAL (UG/L AS TL)	06/13/84-06/13/84	0	1	
WHIS0161	No	01059	THALLIUM, TOTAL (UG/L AS TL)	06/13/84-06/13/84	0	1	
WHIS0163	No	01059	THALLIUM, TOTAL (UG/L AS TL)	09/26/83-06/05/84	0	3	
WHIS0166	No	01059	THALLIUM, TOTAL (UG/L AS TL)	05/23/84-05/23/84	0	1	
WHIS0167	No	01059	THALLIUM, TOTAL (UG/L AS TL)	05/30/84-05/30/84	0	1	
WHIS0168	No	01059	THALLIUM, TOTAL (UG/L AS TL)	05/30/84-05/30/84	0	1	
WHIS0169	No	01059	THALLIUM, TOTAL (UG/L AS TL)	05/30/84-06/13/84	0	2	
WHIS0171	No	01059	THALLIUM, TOTAL (UG/L AS TL)	05/23/84-05/23/84	0	1	
WHIS0176	No	01059	THALLIUM, TOTAL (UG/L AS TL)	05/30/84-05/30/84	0	1	
WHIS0187	No	01059	THALLIUM, TOTAL (UG/L AS TL)	12/30/83-05/08/84	0	18	
WHIS0189	No	01059	THALLIUM, TOTAL (UG/L AS TL)	09/01/83-09/01/83	0	1	
WHIS0008	Yes	01062	MOLYBDENUM, TOTAL (UG/L AS MO)	11/18/96-11/20/98	2	7	
WHIS0015	Yes	01062	MOLYBDENUM, TOTAL (UG/L AS MO)	10/07/97-11/13/97	0	2	
WHIS0029	Yes	01062	MOLYBDENUM, TOTAL (UG/L AS MO)	05/19/93-06/02/94	1	4	
WHIS0033	Yes	01062	MOLYBDENUM, TOTAL (UG/L AS MO)	10/08/97-12/02/97	0	6	
WHIS0113	Yes	01062	MOLYBDENUM, TOTAL (UG/L AS MO)	11/13/97-12/03/97	0	2	
WHIS0152	Yes	01062	MOLYBDENUM, TOTAL (UG/L AS MO)	10/07/97-11/13/97	0	2	
WHIS0157	Yes	01062	MOLYBDENUM, TOTAL (UG/L AS MO)	10/07/97-11/13/97	0	2	
WHIS0195	No	01062	MOLYBDENUM, TOTAL (UG/L AS MO)	10/07/97-11/13/97	0	2	
WHIS0197	No	01062	MOLYBDENUM, TOTAL (UG/L AS MO)	10/07/97-11/13/97	0	2	
WHIS0008	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	11/18/96-11/20/98	2	7	
WHIS0015	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	10/07/97-11/13/97	0	2	
WHIS0029	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	05/11/89-09/17/91	2	9	
WHIS0030	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	07/18/96-07/18/96	0	1	
WHIS0033	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	10/08/97-12/02/97	0	6	
WHIS0054	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	07/23/96-07/23/96	0	1	
WHIS0067	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	08/13/97-01/06/98	0	6	
WHIS0097	No	01067	NICKEL, TOTAL (UG/L AS NI)	05/22/84-06/05/84	0	2	
WHIS0102	No	01067	NICKEL, TOTAL (UG/L AS NI)	05/22/84-06/05/84	0	2	
WHIS0113	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	11/13/97-12/03/97	0	2	
WHIS0119	No	01067	NICKEL, TOTAL (UG/L AS NI)	06/13/84-06/13/84	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 11/20/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
WHIS0128	No	01067	NICKEL, TOTAL (UG/L AS NI)	06/13/84-06/13/84	0	1	
WHIS0141	No	01067	NICKEL, TOTAL (UG/L AS NI)	05/23/84-05/23/84	0	1	
WHIS0142	No	01067	NICKEL, TOTAL (UG/L AS NI)	09/29/83-06/13/84	0	3	
WHIS0145	No	01067	NICKEL, TOTAL (UG/L AS NI)	09/29/83-05/23/84	0	2	
WHIS0146	No	01067	NICKEL, TOTAL (UG/L AS NI)	06/13/84-06/13/84	0	1	
WHIS0147	No	01067	NICKEL, TOTAL (UG/L AS NI)	06/13/84-06/13/84	0	1	
WHIS0150	No	01067	NICKEL, TOTAL (UG/L AS NI)	05/23/84-05/23/84	0	1	
WHIS0152	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	10/07/97-11/13/97	0	2	
WHIS0156	No	01067	NICKEL, TOTAL (UG/L AS NI)	06/13/84-06/13/84	0	1	
WHIS0157	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	10/07/97-11/13/97	0	2	
WHIS0160	No	01067	NICKEL, TOTAL (UG/L AS NI)	06/13/84-06/13/84	0	1	
WHIS0161	No	01067	NICKEL, TOTAL (UG/L AS NI)	06/13/84-06/13/84	0	1	
WHIS0163	No	01067	NICKEL, TOTAL (UG/L AS NI)	09/26/83-06/05/84	0	3	
WHIS0166	No	01067	NICKEL, TOTAL (UG/L AS NI)	05/23/84-05/23/84	0	1	
WHIS0167	No	01067	NICKEL, TOTAL (UG/L AS NI)	05/30/84-05/30/84	0	1	
WHIS0169	No	01067	NICKEL, TOTAL (UG/L AS NI)	05/30/84-06/13/84	0	2	
WHIS0171	No	01067	NICKEL, TOTAL (UG/L AS NI)	05/23/84-05/23/84	0	1	
WHIS0176	No	01067	NICKEL, TOTAL (UG/L AS NI)	05/30/84-05/30/84	0	1	
WHIS0187	No	01067	NICKEL, TOTAL (UG/L AS NI)	12/30/83-05/08/84	0	18	
WHIS0189	No	01067	NICKEL, TOTAL (UG/L AS NI)	09/01/83-09/01/83	0	1	
WHIS0195	No	01067	NICKEL, TOTAL (UG/L AS NI)	10/07/97-11/13/97	0	2	
WHIS0197	No	01067	NICKEL, TOTAL (UG/L AS NI)	10/07/97-11/13/97	0	2	
WHIS0008	Yes	01077	SILVER, TOTAL (UG/L AS AG)	11/18/96-11/20/98	2	7	
WHIS0015	Yes	01077	SILVER, TOTAL (UG/L AS AG)	10/07/97-11/13/97	0	2	
WHIS0030	Yes	01077	SILVER, TOTAL (UG/L AS AG)	09/22/86-02/16/94	7	6	
WHIS0033	Yes	01077	SILVER, TOTAL (UG/L AS AG)	10/08/97-12/02/97	0	6	
WHIS0042	Yes	01077	SILVER, TOTAL (UG/L AS AG)	04/16/84-02/11/91	6	3	
WHIS0054	Yes	01077	SILVER, TOTAL (UG/L AS AG)	07/10/92-07/10/92	0	1	
WHIS0058	Yes	01077	SILVER, TOTAL (UG/L AS AG)	01/31/79-01/31/79	0	1	
WHIS0067	Yes	01077	SILVER, TOTAL (UG/L AS AG)	08/13/97-01/06/98	0	6	
WHIS0097	No	01077	SILVER, TOTAL (UG/L AS AG)	05/22/84-06/05/84	0	2	
WHIS0102	No	01077	SILVER, TOTAL (UG/L AS AG)	05/22/84-06/05/84	0	2	
WHIS0111	Yes	01077	SILVER, TOTAL (UG/L AS AG)	10/07/81-10/07/81	0	1	
WHIS0112	Yes	01077	SILVER, TOTAL (UG/L AS AG)	06/20/77-06/20/77	0	1	
WHIS0113	Yes	01077	SILVER, TOTAL (UG/L AS AG)	11/13/97-12/03/97	0	2	
WHIS0119	No	01077	SILVER, TOTAL (UG/L AS AG)	06/13/84-06/13/84	0	1	
WHIS0124	Yes	01077	SILVER, TOTAL (UG/L AS AG)	04/16/84-04/03/86	1	2	
WHIS0127	Yes	01077	SILVER, TOTAL (UG/L AS AG)	03/07/85-02/27/92	6	3	
WHIS0128	No	01077	SILVER, TOTAL (UG/L AS AG)	06/13/84-06/13/84	0	1	
WHIS0141	No	01077	SILVER, TOTAL (UG/L AS AG)	05/23/84-05/23/84	0	1	
WHIS0142	No	01077	SILVER, TOTAL (UG/L AS AG)	09/29/83-06/13/84	0	4	
WHIS0145	No	01077	SILVER, TOTAL (UG/L AS AG)	09/29/83-05/23/84	0	2	
WHIS0146	No	01077	SILVER, TOTAL (UG/L AS AG)	06/13/84-06/13/84	0	1	
WHIS0147	No	01077	SILVER, TOTAL (UG/L AS AG)	06/13/84-06/13/84	0	1	
WHIS0150	No	01077	SILVER, TOTAL (UG/L AS AG)	05/23/84-05/23/84	0	1	
WHIS0152	Yes	01077	SILVER, TOTAL (UG/L AS AG)	10/07/97-11/13/97	0	2	
WHIS0156	No	01077	SILVER, TOTAL (UG/L AS AG)	06/13/84-06/13/84	0	1	
WHIS0157	Yes	01077	SILVER, TOTAL (UG/L AS AG)	10/07/97-11/13/97	0	2	
WHIS0160	No	01077	SILVER, TOTAL (UG/L AS AG)	06/13/84-06/13/84	0	1	
WHIS0161	No	01077	SILVER, TOTAL (UG/L AS AG)	06/13/84-06/13/84	0	1	
WHIS0163	No	01077	SILVER, TOTAL (UG/L AS AG)	09/26/83-06/05/84	0	3	
WHIS0166	No	01077	SILVER, TOTAL (UG/L AS AG)	05/23/84-05/23/84	0	1	
WHIS0167	No	01077	SILVER, TOTAL (UG/L AS AG)	05/30/84-05/30/84	0	1	
WHIS0168	No	01077	SILVER, TOTAL (UG/L AS AG)	05/30/84-05/30/84	0	1	
WHIS0169	No	01077	SILVER, TOTAL (UG/L AS AG)	05/30/84-06/13/84	0	2	
WHIS0171	No	01077	SILVER, TOTAL (UG/L AS AG)	05/23/84-05/23/84	0	1	
WHIS0176	No	01077	SILVER, TOTAL (UG/L AS AG)	05/30/84-05/30/84	0	1	
WHIS0187	No	01077	SILVER, TOTAL (UG/L AS AG)	12/30/83-05/08/84	0	18	
WHIS0189	No	01077	SILVER, TOTAL (UG/L AS AG)	09/01/83-09/01/83	0	1	
WHIS0195	No	01077	SILVER, TOTAL (UG/L AS AG)	10/07/97-11/13/97	0	2	
WHIS0197	No	01077	SILVER, TOTAL (UG/L AS AG)	10/07/97-11/13/97	0	2	
WHIS0097	No	01087	VANADIUM, TOTAL (UG/L AS V)	05/22/84-06/05/84	0	2	
WHIS0102	No	01087	VANADIUM, TOTAL (UG/L AS V)	05/22/84-06/05/84	0	2	
WHIS0119	No	01087	VANADIUM, TOTAL (UG/L AS V)	06/13/84-06/13/84	0	1	
WHIS0128	No	01087	VANADIUM, TOTAL (UG/L AS V)	06/13/84-06/13/84	0	1	
WHIS0141	No	01087	VANADIUM, TOTAL (UG/L AS V)	05/23/84-05/23/84	0	1	
WHIS0142	No	01087	VANADIUM, TOTAL (UG/L AS V)	09/29/83-06/13/84	0	4	
WHIS0145	No	01087	VANADIUM, TOTAL (UG/L AS V)	09/29/83-05/23/84	0	2	
WHIS0146	No	01087	VANADIUM, TOTAL (UG/L AS V)	06/13/84-06/13/84	0	1	
WHIS0147	No	01087	VANADIUM, TOTAL (UG/L AS V)	06/13/84-06/13/84	0	1	
WHIS0150	No	01087	VANADIUM, TOTAL (UG/L AS V)	05/23/84-05/23/84	0	1	
WHIS0156	No	01087	VANADIUM, TOTAL (UG/L AS V)	06/13/84-06/13/84	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 11/20/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
WHIS0160	No	01087	VANADIUM, TOTAL (UG/L AS V)	06/13/84-06/13/84	0	1	
WHIS0161	No	01087	VANADIUM, TOTAL (UG/L AS V)	06/13/84-06/13/84	0	1	
WHIS0163	No	01087	VANADIUM, TOTAL (UG/L AS V)	09/26/83-06/05/84	0	3	
WHIS0166	No	01087	VANADIUM, TOTAL (UG/L AS V)	05/23/84-05/23/84	0	1	
WHIS0167	No	01087	VANADIUM, TOTAL (UG/L AS V)	05/30/84-05/30/84	0	1	
WHIS0168	No	01087	VANADIUM, TOTAL (UG/L AS V)	05/30/84-05/30/84	0	1	
WHIS0169	No	01087	VANADIUM, TOTAL (UG/L AS V)	05/30/84-06/13/84	0	2	
WHIS0171	No	01087	VANADIUM, TOTAL (UG/L AS V)	05/23/84-05/23/84	0	1	
WHIS0176	No	01087	VANADIUM, TOTAL (UG/L AS V)	05/30/84-05/30/84	0	1	
WHIS0187	No	01087	VANADIUM, TOTAL (UG/L AS V)	12/30/83-05/08/84	0	18	
WHIS0189	No	01087	VANADIUM, TOTAL (UG/L AS V)	09/01/83-09/01/83	0	1	
WHIS0002	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	01/27/55-09/07/61	6	9	
WHIS0046	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	05/24/68-05/24/68	0	1	
WHIS0081	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	02/12/73-09/11/73	0	3	
WHIS0097	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	01/04/84-06/28/84	0	11	
WHIS0102	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	01/04/84-05/08/84	0	19	
WHIS0106	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	05/23/68-05/23/68	0	1	
WHIS0149	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	05/24/68-05/24/68	0	1	
WHIS0163	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	01/04/84-05/08/84	0	19	
WHIS0164	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	06/09/52-04/27/55	2	2	
WHIS0173	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	05/21/68-05/21/68	0	1	
WHIS0198	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	06/26/52-06/26/52	0	1	
WHIS0002	No	01092	ZINC, TOTAL (UG/L AS ZN)	04/18/74-04/18/74	0	1	
WHIS0008	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	11/18/96-11/20/98	2	7	
WHIS0029	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	09/30/86-06/02/94	7	15	
WHIS0030	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	09/22/86-02/16/94	7	6	
WHIS0042	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	04/16/84-02/11/91	6	3	
WHIS0054	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	07/10/92-07/10/92	0	1	
WHIS0058	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	01/31/79-01/31/79	0	1	
WHIS0067	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	08/13/97-01/06/98	0	6	
WHIS0078	No	01092	ZINC, TOTAL (UG/L AS ZN)	02/15/86-03/20/93	7	131	
WHIS0081	No	01092	ZINC, TOTAL (UG/L AS ZN)	01/09/73-04/06/79	6	48	
WHIS0082	No	01092	ZINC, TOTAL (UG/L AS ZN)	02/02/70-03/31/94	24	1699	T,A,S
WHIS0083	No	01092	ZINC, TOTAL (UG/L AS ZN)	01/20/78-03/19/93	15	178	T,S
WHIS0084	No	01092	ZINC, TOTAL (UG/L AS ZN)	10/22/70-03/31/94	23	652	T,A,S
WHIS0097	No	01092	ZINC, TOTAL (UG/L AS ZN)	01/04/84-06/28/84	0	13	
WHIS0102	No	01092	ZINC, TOTAL (UG/L AS ZN)	01/04/84-06/05/84	0	21	
WHIS0111	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	10/07/81-10/07/81	0	1	
WHIS0112	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	06/20/77-06/20/77	0	1	
WHIS0119	No	01092	ZINC, TOTAL (UG/L AS ZN)	06/13/84-06/13/84	0	1	
WHIS0124	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	04/16/84-04/03/86	1	2	
WHIS0127	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	03/07/85-02/27/92	6	3	
WHIS0128	No	01092	ZINC, TOTAL (UG/L AS ZN)	06/13/84-06/13/84	0	1	
WHIS0136	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	07/25/90-07/25/90	0	1	
WHIS0141	No	01092	ZINC, TOTAL (UG/L AS ZN)	05/23/84-05/23/84	0	1	
WHIS0142	No	01092	ZINC, TOTAL (UG/L AS ZN)	09/29/83-06/13/84	0	4	
WHIS0145	No	01092	ZINC, TOTAL (UG/L AS ZN)	05/23/84-05/23/84	0	1	
WHIS0147	No	01092	ZINC, TOTAL (UG/L AS ZN)	06/13/84-06/13/84	0	1	
WHIS0150	No	01092	ZINC, TOTAL (UG/L AS ZN)	05/23/84-05/23/84	0	1	
WHIS0154	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	08/11/77-08/11/77	0	1	
WHIS0155	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	07/19/90-07/19/90	0	1	
WHIS0156	No	01092	ZINC, TOTAL (UG/L AS ZN)	06/13/84-06/13/84	0	1	
WHIS0160	No	01092	ZINC, TOTAL (UG/L AS ZN)	06/13/84-06/13/84	0	1	
WHIS0161	No	01092	ZINC, TOTAL (UG/L AS ZN)	06/13/84-06/13/84	0	1	
WHIS0163	No	01092	ZINC, TOTAL (UG/L AS ZN)	09/26/83-06/05/84	0	22	
WHIS0166	No	01092	ZINC, TOTAL (UG/L AS ZN)	05/23/84-05/23/84	0	1	
WHIS0167	No	01092	ZINC, TOTAL (UG/L AS ZN)	05/30/84-05/30/84	0	1	
WHIS0168	No	01092	ZINC, TOTAL (UG/L AS ZN)	05/30/84-05/30/84	0	1	
WHIS0169	No	01092	ZINC, TOTAL (UG/L AS ZN)	05/30/84-06/13/84	0	2	
WHIS0171	No	01092	ZINC, TOTAL (UG/L AS ZN)	05/23/84-05/23/84	0	1	
WHIS0176	No	01092	ZINC, TOTAL (UG/L AS ZN)	05/30/84-05/30/84	0	1	
WHIS0187	No	01092	ZINC, TOTAL (UG/L AS ZN)	12/30/83-05/08/84	0	18	
WHIS0189	No	01092	ZINC, TOTAL (UG/L AS ZN)	09/01/83-09/01/83	0	1	
WHIS0008	Yes	01097	ANTIMONY, TOTAL (UG/L AS SB)	11/20/98-11/20/98	0	1	
WHIS0030	Yes	01097	ANTIMONY, TOTAL (UG/L AS SB)	07/18/96-07/18/96	0	1	
WHIS0054	Yes	01097	ANTIMONY, TOTAL (UG/L AS SB)	07/23/96-07/23/96	0	1	
WHIS0097	No	01097	ANTIMONY, TOTAL (UG/L AS SB)	05/22/84-06/05/84	0	2	
WHIS0102	No	01097	ANTIMONY, TOTAL (UG/L AS SB)	05/22/84-06/05/84	0	2	
WHIS0119	No	01097	ANTIMONY, TOTAL (UG/L AS SB)	06/13/84-06/13/84	0	1	
WHIS0128	No	01097	ANTIMONY, TOTAL (UG/L AS SB)	06/13/84-06/13/84	0	1	
WHIS0141	No	01097	ANTIMONY, TOTAL (UG/L AS SB)	05/23/84-05/23/84	0	1	
WHIS0142	No	01097	ANTIMONY, TOTAL (UG/L AS SB)	09/29/83-06/13/84	0	4	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 11/20/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
WHIS0145	No	01097	ANTIMONY, TOTAL (UG/L AS SB)	09/29/83-05/23/84	0	2	
WHIS0146	No	01097	ANTIMONY, TOTAL (UG/L AS SB)	06/13/84-06/13/84	0	1	
WHIS0147	No	01097	ANTIMONY, TOTAL (UG/L AS SB)	06/13/84-06/13/84	0	1	
WHIS0150	No	01097	ANTIMONY, TOTAL (UG/L AS SB)	05/23/84-05/23/84	0	1	
WHIS0156	No	01097	ANTIMONY, TOTAL (UG/L AS SB)	06/13/84-06/13/84	0	1	
WHIS0160	No	01097	ANTIMONY, TOTAL (UG/L AS SB)	06/13/84-06/13/84	0	1	
WHIS0161	No	01097	ANTIMONY, TOTAL (UG/L AS SB)	06/13/84-06/13/84	0	1	
WHIS0163	No	01097	ANTIMONY, TOTAL (UG/L AS SB)	09/26/83-06/05/84	0	3	
WHIS0166	No	01097	ANTIMONY, TOTAL (UG/L AS SB)	05/23/84-05/23/84	0	1	
WHIS0167	No	01097	ANTIMONY, TOTAL (UG/L AS SB)	05/30/84-05/30/84	0	1	
WHIS0168	No	01097	ANTIMONY, TOTAL (UG/L AS SB)	05/30/84-05/30/84	0	1	
WHIS0169	No	01097	ANTIMONY, TOTAL (UG/L AS SB)	05/30/84-06/13/84	0	2	
WHIS0171	No	01097	ANTIMONY, TOTAL (UG/L AS SB)	05/23/84-05/23/84	0	1	
WHIS0176	No	01097	ANTIMONY, TOTAL (UG/L AS SB)	05/30/84-05/30/84	0	1	
WHIS0187	No	01097	ANTIMONY, TOTAL (UG/L AS SB)	12/30/83-05/08/84	0	18	
WHIS0189	No	01097	ANTIMONY, TOTAL (UG/L AS SB)	09/01/83-09/01/83	0	1	
WHIS0097	No	01102	TIN, TOTAL (UG/L AS SN)	06/05/84-06/05/84	0	1	
WHIS0102	No	01102	TIN, TOTAL (UG/L AS SN)	05/22/84-06/05/84	0	2	
WHIS0119	No	01102	TIN, TOTAL (UG/L AS SN)	06/13/84-06/13/84	0	1	
WHIS0128	No	01102	TIN, TOTAL (UG/L AS SN)	06/13/84-06/13/84	0	1	
WHIS0141	No	01102	TIN, TOTAL (UG/L AS SN)	05/23/84-05/23/84	0	1	
WHIS0142	No	01102	TIN, TOTAL (UG/L AS SN)	09/29/83-06/13/84	0	4	
WHIS0145	No	01102	TIN, TOTAL (UG/L AS SN)	09/29/83-05/23/84	0	2	
WHIS0147	No	01102	TIN, TOTAL (UG/L AS SN)	06/13/84-06/13/84	0	1	
WHIS0150	No	01102	TIN, TOTAL (UG/L AS SN)	05/23/84-05/23/84	0	1	
WHIS0156	No	01102	TIN, TOTAL (UG/L AS SN)	06/13/84-06/13/84	0	1	
WHIS0160	No	01102	TIN, TOTAL (UG/L AS SN)	06/13/84-06/13/84	0	1	
WHIS0161	No	01102	TIN, TOTAL (UG/L AS SN)	06/13/84-06/13/84	0	1	
WHIS0163	No	01102	TIN, TOTAL (UG/L AS SN)	09/26/83-06/05/84	0	2	
WHIS0166	No	01102	TIN, TOTAL (UG/L AS SN)	05/23/84-05/23/84	0	1	
WHIS0169	No	01102	TIN, TOTAL (UG/L AS SN)	05/30/84-06/13/84	0	2	
WHIS0187	No	01102	TIN, TOTAL (UG/L AS SN)	12/30/83-05/08/84	0	11	
WHIS0189	No	01102	TIN, TOTAL (UG/L AS SN)	09/01/83-09/01/83	0	1	
WHIS0008	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	11/18/96-11/20/98	2	7	
WHIS0015	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	10/07/97-11/13/97	0	2	
WHIS0029	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	05/11/89-09/17/91	2	9	
WHIS0030	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	10/10/89-02/16/94	4	4	
WHIS0033	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	10/08/97-12/02/97	0	6	
WHIS0042	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	02/11/91-02/11/91	0	1	
WHIS0054	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	07/10/92-07/10/92	0	1	
WHIS0097	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	05/22/84-06/05/84	0	2	
WHIS0102	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	05/22/84-06/05/84	0	2	
WHIS0113	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	11/13/97-12/03/97	0	2	
WHIS0119	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	06/13/84-06/13/84	0	1	
WHIS0127	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	02/27/92-02/27/92	0	1	
WHIS0128	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	06/13/84-06/13/84	0	1	
WHIS0141	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	05/23/84-05/23/84	0	1	
WHIS0142	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	05/23/84-06/13/84	0	3	
WHIS0145	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	05/23/84-05/23/84	0	1	
WHIS0147	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	06/13/84-06/13/84	0	1	
WHIS0150	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	05/23/84-05/23/84	0	1	
WHIS0152	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	10/07/97-11/13/97	0	2	
WHIS0156	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	06/13/84-06/13/84	0	1	
WHIS0157	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	10/07/97-11/13/97	0	2	
WHIS0160	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	06/13/84-06/13/84	0	1	
WHIS0161	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	06/13/84-06/13/84	0	1	
WHIS0163	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	05/22/84-06/05/84	0	2	
WHIS0166	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	05/23/84-05/23/84	0	1	
WHIS0167	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	05/30/84-05/30/84	0	1	
WHIS0168	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	05/30/84-05/30/84	0	1	
WHIS0169	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	05/30/84-06/13/84	0	2	
WHIS0171	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	05/23/84-05/23/84	0	1	
WHIS0187	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	12/30/83-05/08/84	0	18	
WHIS0189	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	09/01/83-09/01/83	0	1	
WHIS0195	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	10/07/97-11/13/97	0	2	
WHIS0197	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	10/07/97-11/13/97	0	2	
WHIS0002	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	05/24/71-05/24/71	0	1	
WHIS0008	Yes	01147	SELENIUM, TOTAL (UG/L AS SE)	11/18/96-11/20/98	2	7	
WHIS0015	Yes	01147	SELENIUM, TOTAL (UG/L AS SE)	10/07/97-11/13/97	0	2	
WHIS0029	Yes	01147	SELENIUM, TOTAL (UG/L AS SE)	09/30/86-06/02/94	7	15	
WHIS0030	Yes	01147	SELENIUM, TOTAL (UG/L AS SE)	09/22/86-02/16/94	7	6	
WHIS0033	Yes	01147	SELENIUM, TOTAL (UG/L AS SE)	10/08/97-12/02/97	0	6	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 11/20/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
WHIS0042	Yes	01147	SELENIUM, TOTAL (UG/L AS SE)	04/16/84-02/11/91	6	3	
WHIS0054	Yes	01147	SELENIUM, TOTAL (UG/L AS SE)	07/10/92-07/10/92	0	1	
WHIS0058	Yes	01147	SELENIUM, TOTAL (UG/L AS SE)	01/31/79-01/31/79	0	1	
WHIS0097	No	01147	SELENIUM, TOTAL (UG/L AS SE)	05/22/84-06/05/84	0	2	
WHIS0102	No	01147	SELENIUM, TOTAL (UG/L AS SE)	05/22/84-06/05/84	0	2	
WHIS0111	Yes	01147	SELENIUM, TOTAL (UG/L AS SE)	10/07/81-10/07/81	0	1	
WHIS0112	Yes	01147	SELENIUM, TOTAL (UG/L AS SE)	06/20/77-06/20/77	0	1	
WHIS0113	Yes	01147	SELENIUM, TOTAL (UG/L AS SE)	11/13/97-12/03/97	0	2	
WHIS0124	Yes	01147	SELENIUM, TOTAL (UG/L AS SE)	04/16/84-04/03/86	1	2	
WHIS0127	Yes	01147	SELENIUM, TOTAL (UG/L AS SE)	03/07/85-02/27/92	6	3	
WHIS0141	No	01147	SELENIUM, TOTAL (UG/L AS SE)	05/23/84-05/23/84	0	1	
WHIS0142	No	01147	SELENIUM, TOTAL (UG/L AS SE)	09/29/83-05/30/84	0	3	
WHIS0145	No	01147	SELENIUM, TOTAL (UG/L AS SE)	09/29/83-05/23/84	0	2	
WHIS0147	No	01147	SELENIUM, TOTAL (UG/L AS SE)	06/13/84-06/13/84	0	1	
WHIS0150	No	01147	SELENIUM, TOTAL (UG/L AS SE)	05/23/84-05/23/84	0	1	
WHIS0152	Yes	01147	SELENIUM, TOTAL (UG/L AS SE)	10/07/97-11/13/97	0	2	
WHIS0157	Yes	01147	SELENIUM, TOTAL (UG/L AS SE)	10/07/97-11/13/97	0	2	
WHIS0160	No	01147	SELENIUM, TOTAL (UG/L AS SE)	06/13/84-06/13/84	0	1	
WHIS0161	No	01147	SELENIUM, TOTAL (UG/L AS SE)	06/13/84-06/13/84	0	1	
WHIS0163	No	01147	SELENIUM, TOTAL (UG/L AS SE)	09/26/83-06/05/84	0	3	
WHIS0166	No	01147	SELENIUM, TOTAL (UG/L AS SE)	05/23/84-05/23/84	0	1	
WHIS0167	No	01147	SELENIUM, TOTAL (UG/L AS SE)	05/30/84-05/30/84	0	1	
WHIS0168	No	01147	SELENIUM, TOTAL (UG/L AS SE)	05/30/84-05/30/84	0	1	
WHIS0169	No	01147	SELENIUM, TOTAL (UG/L AS SE)	05/30/84-06/13/84	0	2	
WHIS0171	No	01147	SELENIUM, TOTAL (UG/L AS SE)	05/23/84-05/23/84	0	1	
WHIS0176	No	01147	SELENIUM, TOTAL (UG/L AS SE)	05/30/84-05/30/84	0	1	
WHIS0187	No	01147	SELENIUM, TOTAL (UG/L AS SE)	12/30/83-05/08/84	0	17	
WHIS0189	No	01147	SELENIUM, TOTAL (UG/L AS SE)	09/01/83-09/01/83	0	1	
WHIS0195	No	01147	SELENIUM, TOTAL (UG/L AS SE)	10/07/97-11/13/97	0	2	
WHIS0197	No	01147	SELENIUM, TOTAL (UG/L AS SE)	10/07/97-11/13/97	0	2	
WHIS0097	No	01171	PLATINUM,WHOLE WATER SAMPLE,UG/L	05/22/84-06/05/84	0	2	
WHIS0102	No	01171	PLATINUM,WHOLE WATER SAMPLE,UG/L	05/22/84-06/05/84	0	2	
WHIS0119	No	01171	PLATINUM,WHOLE WATER SAMPLE,UG/L	06/13/84-06/13/84	0	1	
WHIS0128	No	01171	PLATINUM,WHOLE WATER SAMPLE,UG/L	06/13/84-06/13/84	0	1	
WHIS0141	No	01171	PLATINUM,WHOLE WATER SAMPLE,UG/L	05/23/84-05/23/84	0	1	
WHIS0142	No	01171	PLATINUM,WHOLE WATER SAMPLE,UG/L	05/23/84-06/13/84	0	3	
WHIS0145	No	01171	PLATINUM,WHOLE WATER SAMPLE,UG/L	05/23/84-05/23/84	0	1	
WHIS0146	No	01171	PLATINUM,WHOLE WATER SAMPLE,UG/L	06/13/84-06/13/84	0	1	
WHIS0147	No	01171	PLATINUM,WHOLE WATER SAMPLE,UG/L	06/13/84-06/13/84	0	1	
WHIS0150	No	01171	PLATINUM,WHOLE WATER SAMPLE,UG/L	05/23/84-05/23/84	0	1	
WHIS0156	No	01171	PLATINUM,WHOLE WATER SAMPLE,UG/L	06/13/84-06/13/84	0	1	
WHIS0160	No	01171	PLATINUM,WHOLE WATER SAMPLE,UG/L	06/13/84-06/13/84	0	1	
WHIS0161	No	01171	PLATINUM,WHOLE WATER SAMPLE,UG/L	06/13/84-06/13/84	0	1	
WHIS0163	No	01171	PLATINUM,WHOLE WATER SAMPLE,UG/L	05/22/84-06/05/84	0	2	
WHIS0166	No	01171	PLATINUM,WHOLE WATER SAMPLE,UG/L	05/23/84-05/23/84	0	1	
WHIS0167	No	01171	PLATINUM,WHOLE WATER SAMPLE,UG/L	05/30/84-05/30/84	0	1	
WHIS0168	No	01171	PLATINUM,WHOLE WATER SAMPLE,UG/L	05/30/84-05/30/84	0	1	
WHIS0169	No	01171	PLATINUM,WHOLE WATER SAMPLE,UG/L	05/30/84-06/13/84	0	2	
WHIS0171	No	01171	PLATINUM,WHOLE WATER SAMPLE,UG/L	05/23/84-05/23/84	0	1	
WHIS0176	No	01171	PLATINUM,WHOLE WATER SAMPLE,UG/L	05/30/84-05/30/84	0	1	
WHIS0187	No	01171	PLATINUM,WHOLE WATER SAMPLE,UG/L	12/30/83-05/08/84	0	18	
WHIS0002	No	01220	CHROMIUM, HEXAVALENT, DISSOLVED IN (UG/L AS CR)	01/27/55-11/14/58	3	2	
WHIS0058	Yes	01288	FOAMING AGENTS MG/L	01/31/79-01/31/79	0	1	
WHIS0111	Yes	01288	FOAMING AGENTS MG/L	10/07/81-10/07/81	0	1	
WHIS0027	Yes	01501	ALPHA, TOTAL	09/22/86-09/22/86	0	1	
WHIS0028	Yes	01501	ALPHA, TOTAL	02/05/80-03/18/82	2	3	
WHIS0030	Yes	01501	ALPHA, TOTAL	08/15/90-06/27/91	0	2	
WHIS0042	Yes	01501	ALPHA, TOTAL	11/06/87-11/06/87	0	1	
WHIS0060	Yes	01501	ALPHA, TOTAL	02/05/80-09/22/86	6	3	
WHIS0087	Yes	01501	ALPHA, TOTAL	06/16/86-12/10/86	0	2	
WHIS0027	Yes	01502	ALPHA, TOTAL, COUNTING ERROR	09/22/86-09/22/86	0	1	
WHIS0028	Yes	01502	ALPHA, TOTAL, COUNTING ERROR	02/05/80-03/18/82	2	3	
WHIS0030	Yes	01502	ALPHA, TOTAL, COUNTING ERROR	08/15/90-06/27/91	0	2	
WHIS0042	Yes	01502	ALPHA, TOTAL, COUNTING ERROR	11/06/87-11/06/87	0	1	
WHIS0060	Yes	01502	ALPHA, TOTAL, COUNTING ERROR	02/05/80-09/22/86	6	3	
WHIS0087	Yes	01502	ALPHA, TOTAL, COUNTING ERROR	06/16/86-12/10/86	0	2	
WHIS0008	Yes	01519	RADIATION, GROSS ALPHA, WHOLE WATER PC/L	11/20/98-11/20/98	0	1	
WHIS0002	No	11006	INVALID PARAMETER	01/27/55-09/07/61	6	9	
WHIS0008	Yes	22708	URANIUM, NATURAL TOTAL MG/L	11/20/98-11/20/98	0	1	
WHIS0002	No	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	05/20/87-09/19/88	1	3	
WHIS0021	Yes	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/15/86-07/31/90	4	5	
WHIS0022	Yes	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/05/76-07/04/77	0	4	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 11/20/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
WHIS0024	Yes	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/15/86-07/07/87	0	3	
WHIS0034	Yes	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/15/86-07/31/90	4	5	
WHIS0036	Yes	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/07/87-07/17/91	4	4	
WHIS0037	Yes	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/15/86-07/17/91	5	7	
WHIS0039	Yes	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/15/86-07/07/87	0	3	
WHIS0040	Yes	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/05/76-07/04/77	0	4	
WHIS0043	Yes	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/15/86-07/07/87	0	3	
WHIS0048	Yes	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/31/90-07/17/91	0	4	
WHIS0053	Yes	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/15/86-07/17/91	5	7	
WHIS0055	Yes	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/05/76-07/05/76	0	2	
WHIS0057	Yes	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/15/86-07/17/91	5	7	
WHIS0059	Yes	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/05/76-07/04/77	0	4	
WHIS0064	Yes	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/07/87-07/17/91	4	6	
WHIS0066	Yes	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/15/86-07/07/87	0	3	
WHIS0068	Yes	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/31/90-07/31/90	0	2	
WHIS0069	Yes	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/15/86-07/31/90	4	5	
WHIS0070	Yes	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/31/90-07/17/91	0	4	
WHIS0071	Yes	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/15/86-07/31/90	4	5	
WHIS0072	Yes	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/05/76-07/04/77	0	4	
WHIS0073	Yes	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/15/86-07/31/90	4	5	
WHIS0077	Yes	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/17/91-07/17/91	0	2	
WHIS0079	Yes	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/15/86-07/07/87	0	3	
WHIS0080	Yes	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/17/91-07/17/91	0	2	
WHIS0088	Yes	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/15/86-07/31/90	4	5	
WHIS0091	Yes	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/15/86-07/31/90	4	5	
WHIS0094	Yes	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/15/86-07/17/91	5	7	
WHIS0095	Yes	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/31/90-07/31/90	0	2	
WHIS0096	Yes	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/15/86-07/07/87	0	3	
WHIS0100	Yes	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/31/90-07/31/90	0	2	
WHIS0101	Yes	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/04/77-07/04/77	0	1	
WHIS0107	Yes	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/15/86-07/17/91	5	7	
WHIS0108	Yes	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/05/76-07/04/77	0	4	
WHIS0115	Yes	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/07/87-07/07/87	0	2	
WHIS0116	Yes	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/05/76-07/05/76	0	2	
WHIS0121	Yes	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/31/90-07/31/90	0	2	
WHIS0122	Yes	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/15/86-07/17/91	5	11	
WHIS0123	Yes	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/05/76-07/04/77	0	4	
WHIS0125	Yes	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/04/77-07/04/77	0	1	
WHIS0129	Yes	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/15/86-07/17/91	5	7	
WHIS0132	Yes	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/07/87-07/31/90	3	4	
WHIS0133	Yes	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/07/87-07/17/91	4	6	
WHIS0134	Yes	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/04/77-07/04/77	0	2	
WHIS0004	No	31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	11/14/97-01/05/98	0	3	
WHIS0007	Yes	31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	10/07/97-01/06/98	0	4	
WHIS0015	Yes	31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	10/07/97-01/06/98	0	4	
WHIS0021	Yes	31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/15/86-07/31/90	4	5	
WHIS0022	Yes	31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/05/76-07/04/77	0	4	
WHIS0024	Yes	31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/15/86-07/07/87	0	3	
WHIS0029	Yes	31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	12/17/81-06/10/82	0	20	
WHIS0034	Yes	31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/15/86-07/31/90	4	5	
WHIS0036	Yes	31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/07/87-07/17/91	4	4	
WHIS0037	Yes	31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/15/86-07/17/91	5	7	
WHIS0039	Yes	31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/15/86-07/07/87	0	3	
WHIS0040	Yes	31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/05/76-07/04/77	0	4	
WHIS0043	Yes	31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/15/86-07/07/87	0	3	
WHIS0048	Yes	31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/31/90-07/17/91	0	4	
WHIS0053	Yes	31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/15/86-07/17/91	5	7	
WHIS0055	Yes	31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/05/76-07/05/76	0	2	
WHIS0057	Yes	31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/15/86-07/17/91	5	7	
WHIS0059	Yes	31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/05/76-07/04/77	0	4	
WHIS0064	Yes	31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/07/87-07/17/91	4	6	
WHIS0066	Yes	31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/15/86-07/07/87	0	3	
WHIS0068	Yes	31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/31/90-07/31/90	0	2	
WHIS0069	Yes	31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/15/86-07/31/90	4	5	
WHIS0070	Yes	31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/31/90-07/17/91	0	4	
WHIS0071	Yes	31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/15/86-07/31/90	4	5	
WHIS0072	Yes	31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/05/76-07/04/77	0	3	
WHIS0073	Yes	31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/15/86-07/31/90	4	5	
WHIS0077	Yes	31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/17/91-07/17/91	0	2	
WHIS0079	Yes	31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/15/86-07/07/87	0	3	
WHIS0080	Yes	31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/17/91-07/17/91	0	2	
WHIS0088	Yes	31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/15/86-07/31/90	4	5	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 11/20/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
WHIS0091	Yes	31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/15/86-07/31/90	4	5	
WHIS0094	Yes	31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/15/86-07/17/91	5	7	
WHIS0095	Yes	31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/31/90-07/31/90	0	2	
WHIS0096	Yes	31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/15/86-07/07/87	0	3	
WHIS0100	Yes	31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/31/90-07/31/90	0	2	
WHIS0101	Yes	31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/04/77-07/04/77	0	1	
WHIS0107	Yes	31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/15/86-07/17/91	5	7	
WHIS0108	Yes	31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/05/76-07/04/77	0	4	
WHIS0115	Yes	31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/07/87-07/07/87	0	2	
WHIS0116	Yes	31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/05/76-07/05/76	0	2	
WHIS0121	Yes	31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/31/90-07/31/90	0	2	
WHIS0122	Yes	31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/15/86-07/17/91	5	11	
WHIS0123	Yes	31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/05/76-07/04/77	0	4	
WHIS0125	Yes	31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/04/77-07/04/77	0	1	
WHIS0129	Yes	31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/15/86-07/17/91	5	7	
WHIS0132	Yes	31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/07/87-07/31/90	3	4	
WHIS0133	Yes	31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/07/87-07/17/91	4	6	
WHIS0134	Yes	31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/04/77-07/04/77	0	2	
WHIS0152	Yes	31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	10/07/97-01/06/98	0	4	
WHIS0195	No	31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	12/04/97-12/04/97	0	1	
WHIS0197	No	31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	10/07/97-01/06/98	0	4	
WHIS0002	No	31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	05/11/88-09/19/88	0	2	
WHIS0002	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/20/87-05/20/87	0	1	
WHIS0030	Yes	32101	BROMODICHLOROMETHANE,WHOLE WATER,UG/L	02/16/94-02/16/94	0	1	
WHIS0054	Yes	32101	BROMODICHLOROMETHANE,WHOLE WATER,UG/L	07/10/92-07/10/92	0	1	
WHIS0030	Yes	32102	CARBON TETRACHLORIDE,WHOLE WATER,UG/L	02/16/94-02/16/94	0	1	
WHIS0054	Yes	32102	CARBON TETRACHLORIDE,WHOLE WATER,UG/L	07/10/92-07/10/92	0	1	
WHIS0030	Yes	32104	BROMOFORM,WHOLE WATER,UG/L	02/16/94-02/16/94	0	1	
WHIS0054	Yes	32104	BROMOFORM,WHOLE WATER,UG/L	07/10/92-07/10/92	0	1	
WHIS0030	Yes	32105	DIBROMOCHLOROMETHANE,WHOLE WATER,UG/L	02/16/94-02/16/94	0	1	
WHIS0054	Yes	32105	DIBROMOCHLOROMETHANE,WHOLE WATER,UG/L	07/10/92-07/10/92	0	1	
WHIS0030	Yes	32106	CHLOROFORM,WHOLE WATER,UG/L	02/16/94-02/16/94	0	1	
WHIS0054	Yes	32106	CHLOROFORM,WHOLE WATER,UG/L	07/10/92-07/10/92	0	1	
WHIS0062	Yes	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	04/21/93-08/16/94	1	136	
WHIS0075	Yes	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	04/21/93-08/16/94	1	102	
WHIS0105	Yes	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	04/21/93-08/16/94	1	99	
WHIS0114	Yes	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	04/21/93-08/16/94	1	10	
WHIS0138	Yes	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	04/21/93-08/16/94	1	9	
WHIS0030	Yes	34010	TOLUENE IN WTR SMPLE GC-MS, HEXADECONE EXTR.(UG/L)	02/16/94-02/16/94	0	1	
WHIS0054	Yes	34010	TOLUENE IN WTR SMPLE GC-MS, HEXADECONE EXTR.(UG/L)	07/10/92-07/10/92	0	1	
WHIS0030	Yes	34030	BENZENE IN WTR SMPLE GC-MS, HEXADECONE EXTR.(UG/L)	02/16/94-02/16/94	0	1	
WHIS0054	Yes	34030	BENZENE IN WTR SMPLE GC-MS, HEXADECONE EXTR.(UG/L)	07/10/92-07/10/92	0	1	
WHIS0030	Yes	34273	BIS (2-CHLOROETHYL) ETHER TOTWUG/L	02/16/94-02/16/94	0	1	
WHIS0030	Yes	34301	CHLOROBENZENE TOTWUG/L	02/16/94-02/16/94	0	1	
WHIS0054	Yes	34301	CHLOROBENZENE TOTWUG/L	07/10/92-07/10/92	0	1	
WHIS0030	Yes	34311	CHLOROETHANE TOTWUG/L	02/16/94-02/16/94	0	1	
WHIS0054	Yes	34311	CHLOROETHANE TOTWUG/L	07/10/92-07/10/92	0	1	
WHIS0030	Yes	34371	ETHYLBENZENE TOTWUG/L	02/16/94-02/16/94	0	1	
WHIS0054	Yes	34371	ETHYLBENZENE TOTWUG/L	07/10/92-07/10/92	0	1	
WHIS0030	Yes	34391	HEXACHLOROBUTADIENE TOTWUG/L	02/16/94-02/16/94	0	1	
WHIS0054	Yes	34391	HEXACHLOROBUTADIENE TOTWUG/L	07/10/92-07/10/92	0	1	
WHIS0030	Yes	34413	METHYL BROMIDE TOTWUG/L	02/16/94-02/16/94	0	1	
WHIS0054	Yes	34413	METHYL BROMIDE TOTWUG/L	07/10/92-07/10/92	0	1	
WHIS0030	Yes	34418	METHYL CHLORIDE TOTWUG/L	02/16/94-02/16/94	0	1	
WHIS0054	Yes	34418	METHYL CHLORIDE TOTWUG/L	07/10/92-07/10/92	0	1	
WHIS0030	Yes	34423	METHYLENE CHLORIDE TOTWUG/L	02/16/94-02/16/94	0	1	
WHIS0054	Yes	34423	METHYLENE CHLORIDE TOTWUG/L	07/10/92-07/10/92	0	1	
WHIS0030	Yes	34475	TETRACHLOROETHYLENE TOTWUG/L	02/16/94-02/16/94	0	1	
WHIS0054	Yes	34475	TETRACHLOROETHYLENE TOTWUG/L	07/10/92-07/10/92	0	1	
WHIS0030	Yes	34488	TRICHLOROFLUOROMETHANE TOTWUG/L	02/16/94-02/16/94	0	1	
WHIS0054	Yes	34488	TRICHLOROFLUOROMETHANE TOTWUG/L	07/10/92-07/10/92	0	1	
WHIS0030	Yes	34496	1,1-DICHLOROETHANE TOTWUG/L	02/16/94-02/16/94	0	1	
WHIS0054	Yes	34496	1,1-DICHLOROETHANE TOTWUG/L	07/10/92-07/10/92	0	1	
WHIS0030	Yes	34501	1,1-DICHLOROETHYLENE TOTWUG/L	02/16/94-02/16/94	0	1	
WHIS0054	Yes	34501	1,1-DICHLOROETHYLENE TOTWUG/L	07/10/92-07/10/92	0	1	
WHIS0030	Yes	34506	1,1,1-TRICHLOROETHANE TOTWUG/L	02/16/94-02/16/94	0	1	
WHIS0054	Yes	34506	1,1,1-TRICHLOROETHANE TOTWUG/L	07/10/92-07/10/92	0	1	
WHIS0030	Yes	34511	1,1,2-TRICHLOROETHANE TOTWUG/L	02/16/94-02/16/94	0	1	
WHIS0054	Yes	34511	1,1,2-TRICHLOROETHANE TOTWUG/L	07/10/92-07/10/92	0	1	
WHIS0030	Yes	34516	1,1,2,2-TETRACHLOROETHANE TOTWUG/L	02/16/94-02/16/94	0	1	
WHIS0054	Yes	34516	1,1,2,2-TETRACHLOROETHANE TOTWUG/L	07/10/92-07/10/92	0	1	
WHIS0030	Yes	34531	1,2-DICHLOROETHANE TOTWUG/L	02/16/94-02/16/94	0	1	

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Station/Parameter Period of Record Tabulation
From 01/01/01 To 11/20/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
WHIS0054	Yes	34531	1,2-DICHLOROETHANE TOTWUG/L	07/10/92-07/10/92	0	1	
WHIS0030	Yes	34536	1,2-DICHLOROBENZENE TOTWUG/L	02/16/94-02/16/94	0	1	
WHIS0054	Yes	34536	1,2-DICHLOROBENZENE TOTWUG/L	07/10/92-07/10/92	0	1	
WHIS0030	Yes	34541	1,2-DICHLOROPROPANE TOTWUG/L	02/16/94-02/16/94	0	1	
WHIS0054	Yes	34541	1,2-DICHLOROPROPANE TOTWUG/L	07/10/92-07/10/92	0	1	
WHIS0030	Yes	34546	TRANS-1,2-DICHLOROETHENE, TOTAL, IN WATER UG/L	02/16/94-02/16/94	0	1	
WHIS0054	Yes	34546	TRANS-1,2-DICHLOROETHENE, TOTAL, IN WATER UG/L	07/10/92-07/10/92	0	1	
WHIS0030	Yes	34551	1,2,4-TRICHLOROBENZENE TOTWUG/L	02/16/94-02/16/94	0	1	
WHIS0054	Yes	34551	1,2,4-TRICHLOROBENZENE TOTWUG/L	07/10/92-07/10/92	0	1	
WHIS0030	Yes	34561	1,3-DICHLOROPROPENE TOTWUG/L	02/16/94-02/16/94	0	1	
WHIS0054	Yes	34561	1,3-DICHLOROPROPENE TOTWUG/L	07/10/92-07/10/92	0	1	
WHIS0030	Yes	34566	1,3-DICHLOROBENZENE TOTWUG/L	02/16/94-02/16/94	0	1	
WHIS0054	Yes	34566	1,3-DICHLOROBENZENE TOTWUG/L	07/10/92-07/10/92	0	1	
WHIS0030	Yes	34571	1,4-DICHLOROBENZENE TOTWUG/L	02/16/94-02/16/94	0	1	
WHIS0054	Yes	34571	1,4-DICHLOROBENZENE TOTWUG/L	07/10/92-07/10/92	0	1	
WHIS0030	Yes	34576	2-CHLOROETHYL VINYL ETHER TOTWUG/L	02/16/94-02/16/94	0	1	
WHIS0054	Yes	34576	2-CHLOROETHYL VINYL ETHER TOTWUG/L	07/10/92-07/10/92	0	1	
WHIS0030	Yes	34668	DICHLORODIFUOROMETHANE TOTWUG/L	02/16/94-02/16/94	0	1	
WHIS0054	Yes	34668	DICHLORODIFUOROMETHANE TOTWUG/L	07/10/92-07/10/92	0	1	
WHIS0030	Yes	34696	NAPHTHALENE TOTWUG/L	02/16/94-02/16/94	0	1	
WHIS0054	Yes	34696	NAPHTHALENE TOTWUG/L	07/10/92-07/10/92	0	1	
WHIS0030	Yes	34722	BOLERO (THIOBENCARB), WATER, WHOLE UG/L	02/16/94-02/16/94	0	1	
WHIS0002	No	38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	05/08/61-05/04/67	5	10	
WHIS0027	Yes	38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	03/13/81-03/13/81	0	1	
WHIS0028	Yes	38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	06/21/78-06/11/85	6	5	
WHIS0030	Yes	38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	09/22/86-02/16/94	7	6	
WHIS0041	Yes	38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	03/17/80-09/09/82	2	2	
WHIS0042	Yes	38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	04/16/84-02/11/91	6	3	
WHIS0054	Yes	38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	07/10/92-07/10/92	0	1	
WHIS0060	Yes	38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	06/21/78-09/22/86	8	6	
WHIS0063	Yes	38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	03/17/80-04/10/87	7	4	
WHIS0087	Yes	38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	04/03/86-04/03/86	0	1	
WHIS0110	Yes	38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	10/07/81-10/07/81	0	1	
WHIS0120	Yes	38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	03/17/80-10/07/81	1	2	
WHIS0124	Yes	38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	04/16/84-04/03/86	1	2	
WHIS0127	Yes	38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	03/07/85-02/27/92	6	3	
WHIS0030	Yes	38710	BENTAZON WATER, TOTUG/L	02/16/94-02/16/94	0	1	
WHIS0030	Yes	38761	DBCP WATER, DISUG/L	07/24/89-02/16/94	4	3	
WHIS0054	Yes	38761	DBCP WATER, DISUG/L	06/23/89-09/21/89	0	2	
WHIS0030	Yes	39033	ATRAZINE IN WHOLE WATER SAMPLE UG/L	06/22/89-02/16/94	4	3	
WHIS0002	No	39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	02/11/52-09/19/88	36	110	T,A,S
WHIS0031	Yes	39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	05/14/63-12/17/81	18	3	
WHIS0154	Yes	39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	05/14/63-03/03/83	19	20	
WHIS0164	No	39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	06/09/52-06/09/52	0	1	
WHIS0198	No	39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	06/26/52-06/26/52	0	1	
WHIS0028	Yes	39045	2,4,5-TP INCLUDES ACIDS & SALTS WATER SAMPL UG/L	03/18/82-08/19/85	3	2	
WHIS0030	Yes	39045	2,4,5-TP INCLUDES ACIDS & SALTS WATER SAMPL UG/L	06/22/89-02/16/94	4	2	
WHIS0041	Yes	39045	2,4,5-TP INCLUDES ACIDS & SALTS WATER SAMPL UG/L	03/17/80-03/17/80	0	1	
WHIS0042	Yes	39045	2,4,5-TP INCLUDES ACIDS & SALTS WATER SAMPL UG/L	04/16/84-04/16/84	0	1	
WHIS0054	Yes	39045	2,4,5-TP INCLUDES ACIDS & SALTS WATER SAMPL UG/L	06/23/89-11/08/89	0	2	
WHIS0060	Yes	39045	2,4,5-TP INCLUDES ACIDS & SALTS WATER SAMPL UG/L	03/18/82-03/18/82	0	1	
WHIS0063	Yes	39045	2,4,5-TP INCLUDES ACIDS & SALTS WATER SAMPL UG/L	04/16/84-04/10/87	2	2	
WHIS0087	Yes	39045	2,4,5-TP INCLUDES ACIDS & SALTS WATER SAMPL UG/L	04/03/86-04/03/86	0	1	
WHIS0124	Yes	39045	2,4,5-TP INCLUDES ACIDS & SALTS WATER SAMPL UG/L	04/16/84-04/16/84	0	1	
WHIS0127	Yes	39045	2,4,5-TP INCLUDES ACIDS & SALTS WATER SAMPL UG/L	03/07/85-03/07/85	0	1	
WHIS0030	Yes	39055	SIMAZINE IN WHOLE WATER (UG/L)	06/22/89-02/16/94	4	3	
WHIS0030	Yes	39100	BIS(2-ETHYLHEXYL) PHTHALATE,WHOLE WATER,UG/L	02/16/94-02/16/94	0	1	
WHIS0030	Yes	39175	VINYL CHLORIDE-WHOLE WATER SAMPLE-UG/L	02/16/94-02/16/94	0	1	
WHIS0054	Yes	39175	VINYL CHLORIDE-WHOLE WATER SAMPLE-UG/L	07/10/92-07/10/92	0	1	
WHIS0030	Yes	39180	TRICHLOROETHYLENE-WHOLE WATER SAMPLE-UG/L	02/16/94-02/16/94	0	1	
WHIS0054	Yes	39180	TRICHLOROETHYLENE-WHOLE WATER SAMPLE-UG/L	07/10/92-07/10/92	0	1	
WHIS0030	Yes	39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	06/22/89-02/16/94	4	2	
WHIS0041	Yes	39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	03/17/80-03/17/80	0	1	
WHIS0042	Yes	39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	04/16/84-04/16/84	0	1	
WHIS0054	Yes	39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	06/23/89-09/21/89	0	2	
WHIS0058	Yes	39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	01/31/79-01/31/79	0	1	
WHIS0060	Yes	39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	03/18/82-03/18/82	0	1	
WHIS0063	Yes	39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	04/16/84-04/10/87	2	2	
WHIS0087	Yes	39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	04/03/86-04/03/86	0	1	
WHIS0124	Yes	39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	04/16/84-04/16/84	0	1	
WHIS0127	Yes	39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	03/07/85-03/07/85	0	1	
WHIS0030	Yes	39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	02/16/94-02/16/94	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 11/20/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
WHIS0028	Yes	39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	03/18/82-08/19/85	3	2	
WHIS0030	Yes	39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	06/22/89-02/16/94	4	2	
WHIS0041	Yes	39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	03/17/80-03/17/80	0	1	
WHIS0042	Yes	39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	04/16/84-04/16/84	0	1	
WHIS0054	Yes	39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	06/23/89-09/21/89	0	2	
WHIS0058	Yes	39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	01/31/79-01/31/79	0	1	
WHIS0060	Yes	39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	03/18/82-03/18/82	0	1	
WHIS0063	Yes	39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	04/16/84-04/10/87	2	2	
WHIS0087	Yes	39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	04/03/86-04/03/86	0	1	
WHIS0124	Yes	39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	04/16/84-04/16/84	0	1	
WHIS0127	Yes	39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	03/07/85-03/07/85	0	1	
WHIS0028	Yes	39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	03/18/82-08/19/85	3	2	
WHIS0030	Yes	39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	06/22/89-02/16/94	4	2	
WHIS0041	Yes	39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	03/17/80-03/17/80	0	1	
WHIS0042	Yes	39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	04/16/84-04/16/84	0	1	
WHIS0054	Yes	39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	06/23/89-09/21/89	0	2	
WHIS0058	Yes	39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	01/31/79-01/31/79	0	1	
WHIS0060	Yes	39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	03/18/82-03/18/82	0	1	
WHIS0063	Yes	39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	04/16/84-04/10/87	2	2	
WHIS0087	Yes	39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	04/03/86-04/03/86	0	1	
WHIS0124	Yes	39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	04/16/84-04/16/84	0	1	
WHIS0127	Yes	39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	03/07/85-03/07/85	0	1	
WHIS0030	Yes	39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	02/16/94-02/16/94	0	1	
WHIS0030	Yes	39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	02/16/94-02/16/94	0	1	
WHIS0028	Yes	39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	03/18/82-08/19/85	3	2	
WHIS0030	Yes	39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	06/22/89-02/16/94	4	2	
WHIS0041	Yes	39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	03/17/80-03/17/80	0	1	
WHIS0042	Yes	39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	04/16/84-04/16/84	0	1	
WHIS0054	Yes	39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	06/23/89-09/21/89	0	2	
WHIS0058	Yes	39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	01/31/79-01/31/79	0	1	
WHIS0060	Yes	39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	03/18/82-03/18/82	0	1	
WHIS0063	Yes	39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	04/16/84-04/10/87	2	2	
WHIS0087	Yes	39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	04/03/86-04/03/86	0	1	
WHIS0124	Yes	39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	04/16/84-04/16/84	0	1	
WHIS0127	Yes	39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	03/07/85-03/07/85	0	1	
WHIS0028	Yes	39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	03/18/82-08/19/85	3	2	
WHIS0030	Yes	39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	06/22/89-02/16/94	4	2	
WHIS0041	Yes	39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	03/17/80-03/17/80	0	1	
WHIS0042	Yes	39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	04/16/84-04/16/84	0	1	
WHIS0054	Yes	39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	06/23/89-11/08/89	0	2	
WHIS0058	Yes	39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	01/31/79-01/31/79	0	1	
WHIS0060	Yes	39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	03/18/82-03/18/82	0	1	
WHIS0063	Yes	39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	04/16/84-04/10/87	2	2	
WHIS0087	Yes	39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	04/03/86-04/03/86	0	1	
WHIS0124	Yes	39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	04/16/84-04/16/84	0	1	
WHIS0127	Yes	39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	03/07/85-03/07/85	0	1	
WHIS0058	Yes	39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	01/31/79-01/31/79	0	1	
WHIS0028	Yes	39782	LINDANE IN WHOLE WATER SAMPLE (UG/L)	03/18/82-08/19/85	3	2	
WHIS0111	Yes	45634	HARDNESS, CALCIUM, AS CAC03, WATER, WHOLE, MG/L	10/07/81-10/07/81	0	1	
WHIS0111	Yes	45635	HARDNESS, MAGNESIUM, AS CAC03, WATER, WHOLE, MG/L	10/07/81-10/07/81	0	1	
WHIS0050	Yes	46480	OXIDATION REDUCTION POTENTIAL, FIELD MV	06/01/94-08/16/94	0	80	
WHIS0062	Yes	46480	OXIDATION REDUCTION POTENTIAL, FIELD MV	06/01/94-08/16/94	0	82	
WHIS0065	Yes	46480	OXIDATION REDUCTION POTENTIAL, FIELD MV	06/01/94-08/16/94	0	67	
WHIS0075	Yes	46480	OXIDATION REDUCTION POTENTIAL, FIELD MV	06/01/94-08/16/94	0	69	
WHIS0089	Yes	46480	OXIDATION REDUCTION POTENTIAL, FIELD MV	06/01/94-08/16/94	0	69	
WHIS0105	Yes	46480	OXIDATION REDUCTION POTENTIAL, FIELD MV	06/01/94-08/16/94	0	57	
WHIS0117	Yes	46480	OXIDATION REDUCTION POTENTIAL, FIELD MV	06/01/94-08/16/94	0	51	
WHIS0018	Yes	46491	METHYL TERTIARY BUTYL ETHER(MTBE),TOTAL,WATER UG/L	08/17/98-08/17/98	0	1	
WHIS0130	Yes	46491	METHYL TERTIARY BUTYL ETHER(MTBE),TOTAL,WATER UG/L	05/19/98-09/08/98	0	8	
WHIS0032	Yes	49701	TRANSPARENCY, SECCHI DISK, WATER FT	05/27/65-07/26/65	0	4	
WHIS0002	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/14/62-09/19/88	26	21	S
WHIS0003	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	05/08/61-09/02/66	5	12	
WHIS0008	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	11/18/96-11/20/98	2	6	
WHIS0029	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/19/81-05/19/93	11	12	
WHIS0030	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/22/86-02/16/94	7	6	
WHIS0041	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/17/80-09/09/82	2	2	
WHIS0042	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/16/84-02/11/91	6	3	
WHIS0054	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	07/10/92-07/10/92	0	1	
WHIS0058	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	01/31/79-01/31/79	0	1	
WHIS0060	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	06/21/78-09/22/86	8	6	
WHIS0063	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/17/80-04/10/87	7	4	
WHIS0067	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/13/97-01/06/98	0	6	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 11/20/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
WHIS0087	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/03/86-04/03/86	0	1	
WHIS0110	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/07/81-10/07/81	0	1	
WHIS0111	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/07/81-10/07/81	0	1	
WHIS0112	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	06/20/77-06/20/77	0	1	
WHIS0120	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/17/80-10/07/81	1	2	
WHIS0124	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/16/84-04/03/86	1	2	
WHIS0127	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/07/85-02/27/92	6	3	
WHIS0154	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	06/22/77-06/22/77	0	1	
WHIS0045	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	11/15/62-11/15/62	0	1	
WHIS0046	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/24/68-05/24/68	0	1	
WHIS0092	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	11/14/62-11/14/62	0	1	
WHIS0097	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/22/84-06/05/84	0	2	
WHIS0102	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/22/84-06/05/84	0	2	
WHIS0106	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/23/68-05/23/68	0	1	
WHIS0119	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	06/13/84-06/13/84	0	1	
WHIS0128	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	06/13/84-06/13/84	0	1	
WHIS0131	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	11/15/62-11/15/62	0	1	
WHIS0141	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/23/84-05/23/84	0	1	
WHIS0142	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/23/84-06/13/84	0	3	
WHIS0145	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/23/84-05/23/84	0	1	
WHIS0146	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	06/13/84-06/13/84	0	1	
WHIS0147	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	06/13/84-06/13/84	0	1	
WHIS0149	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/24/68-05/24/68	0	1	
WHIS0150	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/23/84-05/23/84	0	1	
WHIS0156	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	06/13/84-06/13/84	0	1	
WHIS0160	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	06/13/84-06/13/84	0	1	
WHIS0161	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	06/13/84-06/13/84	0	1	
WHIS0163	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/22/84-06/05/84	0	2	
WHIS0166	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/23/84-05/23/84	0	1	
WHIS0167	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/30/84-05/30/84	0	1	
WHIS0168	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/30/84-05/30/84	0	1	
WHIS0169	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/30/84-06/13/84	0	2	
WHIS0171	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/23/84-05/23/84	0	1	
WHIS0173	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/21/68-05/21/68	0	1	
WHIS0176	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/30/84-05/30/84	0	1	
WHIS0187	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	12/30/83-05/08/84	0	18	
WHIS0003	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	05/08/61-09/02/66	5	12	
WHIS0047	No	70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	01/30/86-04/06/89	3	14	
WHIS0194	No	70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	11/26/62-11/19/63	0	4	
WHIS0047	No	70332	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .125MM	01/30/86-03/09/89	3	6	
WHIS0194	No	70332	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .125MM	11/26/62-11/19/63	0	4	
WHIS0047	No	70333	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .250MM	01/30/86-03/09/89	3	6	
WHIS0194	No	70333	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .250MM	11/26/62-11/26/62	0	2	
WHIS0047	No	70334	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM	01/30/86-03/09/89	3	6	
WHIS0194	No	70334	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM	11/26/62-11/26/62	0	1	
WHIS0047	No	70335	SUSPENDED SED SIEVE DIAMETER,% FINER THAN 1.00MM	03/05/87-03/09/89	2	4	
WHIS0047	No	70336	SUSPENDED SED SIEVE DIAMETER,% FINER THAN 2.00MM	03/05/87-03/09/89	2	2	
WHIS0194	No	70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	02/19/58-12/22/64	6	3	
WHIS0194	No	70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	02/19/58-12/22/64	6	4	
WHIS0047	No	70339	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM	07/09/85-07/09/85	0	1	
WHIS0194	No	70339	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM	02/19/58-12/22/64	6	3	
WHIS0194	No	70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	02/19/58-12/22/64	6	4	
WHIS0194	No	70341	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM	02/19/58-12/22/64	6	3	
WHIS0194	No	70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	02/19/58-03/16/67	9	19	
WHIS0194	No	70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	02/19/58-03/16/67	9	19	
WHIS0194	No	70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	02/19/58-03/16/67	9	19	
WHIS0194	No	70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	02/19/58-03/16/67	9	18	
WHIS0194	No	70346	SUS SED FALL DIA(DISTLD WATER)%FINER THAN 1.00MM	02/19/58-03/16/67	9	9	
WHIS0030	Yes	71814	LANGELIER INDEX, CORROSIVITY, WATER, INDEX NUMBER	09/22/86-09/22/86	0	1	
WHIS0042	Yes	71814	LANGELIER INDEX, CORROSIVITY, WATER, INDEX NUMBER	02/11/91-02/11/91	0	1	
WHIS0060	Yes	71814	LANGELIER INDEX, CORROSIVITY, WATER, INDEX NUMBER	09/22/86-09/22/86	0	1	
WHIS0030	Yes	71830	HYDROXIDE ION (MG/L AS OH)	06/27/91-06/27/91	0	1	
WHIS0062	Yes	71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	04/21/93-08/16/94	1	134	
WHIS0075	Yes	71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	04/21/93-08/16/94	1	102	
WHIS0105	Yes	71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	04/21/93-08/16/94	1	99	
WHIS0114	Yes	71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	04/21/93-08/16/94	1	10	
WHIS0138	Yes	71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	04/21/93-08/16/94	1	9	
WHIS0027	Yes	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	07/10/75-03/13/81	5	2	
WHIS0028	Yes	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	06/21/78-06/11/85	6	5	
WHIS0030	Yes	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	09/22/86-07/18/96	9	8	
WHIS0041	Yes	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/17/80-09/09/82	2	2	
WHIS0042	Yes	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	04/16/84-02/11/91	6	3	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 11/20/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
WHIS0054	Yes	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	07/10/92-07/23/96	4	2	
WHIS0060	Yes	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	06/21/78-09/22/86	8	6	
WHIS0063	Yes	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/17/80-04/10/87	7	4	
WHIS0086	Yes	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	12/05/95-12/05/95	0	1	
WHIS0087	Yes	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	04/03/86-04/03/86	0	1	
WHIS0110	Yes	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	10/07/81-10/07/81	0	1	
WHIS0120	Yes	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/17/80-10/07/81	1	2	
WHIS0124	Yes	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	04/16/84-12/05/95	11	3	
WHIS0127	Yes	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/07/85-02/27/92	6	3	
WHIS0002	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	02/11/52-05/23/85	33	34	T,S
WHIS0003	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	05/08/61-09/02/66	5	12	
WHIS0015	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/13/97-11/13/97	0	1	
WHIS0029	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/19/81-05/19/93	11	12	
WHIS0033	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/12/97-11/12/97	0	2	
WHIS0045	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/15/62-11/15/62	0	1	
WHIS0046	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	05/24/68-05/24/68	0	1	
WHIS0092	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/14/62-11/14/62	0	1	
WHIS0106	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	05/23/68-05/23/68	0	1	
WHIS0111	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/07/81-10/07/81	0	1	
WHIS0112	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	06/20/77-06/20/77	0	1	
WHIS0113	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/13/97-11/13/97	0	1	
WHIS0131	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/15/62-11/15/62	0	1	
WHIS0149	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	05/24/68-05/24/68	0	1	
WHIS0152	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/13/97-11/13/97	0	1	
WHIS0154	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	06/22/77-06/22/77	0	1	
WHIS0157	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/13/97-11/13/97	0	1	
WHIS0173	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	05/21/68-05/21/68	0	1	
WHIS0195	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/13/97-11/13/97	0	1	
WHIS0197	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/13/97-11/13/97	0	1	
WHIS0003	No	71885	IRON (UG/L AS FE)	05/08/61-05/08/61	0	1	
WHIS0015	Yes	71889	PHOSPHATE, ORTHO, SOLUBLE, AS PO4 (MG/L)	10/07/97-12/04/97	0	3	
WHIS0029	Yes	71889	PHOSPHATE, ORTHO, SOLUBLE, AS PO4 (MG/L)	06/29/77-06/02/94	16	34	T
WHIS0033	Yes	71889	PHOSPHATE, ORTHO, SOLUBLE, AS PO4 (MG/L)	10/08/97-12/02/97	0	6	
WHIS0113	Yes	71889	PHOSPHATE, ORTHO, SOLUBLE, AS PO4 (MG/L)	11/13/97-12/03/97	0	2	
WHIS0152	Yes	71889	PHOSPHATE, ORTHO, SOLUBLE, AS PO4 (MG/L)	10/07/97-12/04/97	0	3	
WHIS0157	Yes	71889	PHOSPHATE, ORTHO, SOLUBLE, AS PO4 (MG/L)	10/07/97-12/04/97	0	3	
WHIS0195	No	71889	PHOSPHATE, ORTHO, SOLUBLE, AS PO4 (MG/L)	10/07/97-12/04/97	0	3	
WHIS0197	No	71889	PHOSPHATE, ORTHO, SOLUBLE, AS PO4 (MG/L)	10/07/97-12/04/97	0	3	
WHIS0002	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	05/24/71-05/24/71	0	1	
WHIS0002	No	71900	MERCURY, TOTAL (UG/L AS HG)	05/24/71-05/24/71	0	1	
WHIS0008	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	11/18/96-09/16/98	1	6	
WHIS0015	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	10/07/97-11/13/97	0	2	
WHIS0029	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	09/30/86-06/02/94	7	15	
WHIS0030	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	09/22/86-02/16/94	7	6	
WHIS0033	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	10/08/97-12/02/97	0	6	
WHIS0042	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	04/16/84-02/11/91	6	3	
WHIS0054	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	07/10/92-07/10/92	0	1	
WHIS0097	No	71900	MERCURY, TOTAL (UG/L AS HG)	05/22/84-06/05/84	0	2	
WHIS0102	No	71900	MERCURY, TOTAL (UG/L AS HG)	05/22/84-06/05/84	0	2	
WHIS0111	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	10/07/81-10/07/81	0	1	
WHIS0112	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	06/20/77-06/20/77	0	1	
WHIS0113	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	11/13/97-12/03/97	0	2	
WHIS0119	No	71900	MERCURY, TOTAL (UG/L AS HG)	06/13/84-06/13/84	0	1	
WHIS0124	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	04/16/84-04/03/86	1	2	
WHIS0127	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	03/07/85-02/27/92	6	3	
WHIS0128	No	71900	MERCURY, TOTAL (UG/L AS HG)	06/13/84-06/13/84	0	1	
WHIS0141	No	71900	MERCURY, TOTAL (UG/L AS HG)	05/23/84-05/23/84	0	1	
WHIS0142	No	71900	MERCURY, TOTAL (UG/L AS HG)	09/29/83-06/13/84	0	4	
WHIS0145	No	71900	MERCURY, TOTAL (UG/L AS HG)	09/29/83-05/23/84	0	2	
WHIS0146	No	71900	MERCURY, TOTAL (UG/L AS HG)	06/13/84-06/13/84	0	1	
WHIS0147	No	71900	MERCURY, TOTAL (UG/L AS HG)	06/13/84-06/13/84	0	1	
WHIS0150	No	71900	MERCURY, TOTAL (UG/L AS HG)	05/23/84-05/23/84	0	1	
WHIS0152	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	10/07/97-11/13/97	0	2	
WHIS0156	No	71900	MERCURY, TOTAL (UG/L AS HG)	06/13/84-06/13/84	0	1	
WHIS0157	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	10/07/97-11/13/97	0	2	
WHIS0160	No	71900	MERCURY, TOTAL (UG/L AS HG)	06/13/84-06/13/84	0	1	
WHIS0161	No	71900	MERCURY, TOTAL (UG/L AS HG)	06/13/84-06/13/84	0	1	
WHIS0163	No	71900	MERCURY, TOTAL (UG/L AS HG)	09/26/83-06/05/84	0	3	
WHIS0166	No	71900	MERCURY, TOTAL (UG/L AS HG)	05/23/84-05/23/84	0	1	
WHIS0167	No	71900	MERCURY, TOTAL (UG/L AS HG)	05/30/84-05/30/84	0	1	
WHIS0168	No	71900	MERCURY, TOTAL (UG/L AS HG)	05/30/84-05/30/84	0	1	
WHIS0169	No	71900	MERCURY, TOTAL (UG/L AS HG)	05/30/84-06/13/84	0	2	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 11/20/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
WHIS0171	No	71900	MERCURY, TOTAL (UG/L AS HG)	05/23/84-05/23/84	0	1	
WHIS0176	No	71900	MERCURY, TOTAL (UG/L AS HG)	05/30/84-05/30/84	0	1	
WHIS0187	No	71900	MERCURY, TOTAL (UG/L AS HG)	12/30/83-05/08/84	0	18	
WHIS0189	No	71900	MERCURY, TOTAL (UG/L AS HG)	09/01/83-09/01/83	0	1	
WHIS0195	No	71900	MERCURY, TOTAL (UG/L AS HG)	10/07/97-11/13/97	0	2	
WHIS0197	No	71900	MERCURY, TOTAL (UG/L AS HG)	10/07/97-11/13/97	0	2	
WHIS0097	No	71910	GOLD, TOTAL (UG/L AS AU)	05/22/84-06/05/84	0	2	
WHIS0102	No	71910	GOLD, TOTAL (UG/L AS AU)	05/22/84-06/05/84	0	2	
WHIS0119	No	71910	GOLD, TOTAL (UG/L AS AU)	06/13/84-06/13/84	0	1	
WHIS0128	No	71910	GOLD, TOTAL (UG/L AS AU)	06/13/84-06/13/84	0	1	
WHIS0141	No	71910	GOLD, TOTAL (UG/L AS AU)	05/23/84-05/23/84	0	1	
WHIS0142	No	71910	GOLD, TOTAL (UG/L AS AU)	05/23/84-06/13/84	0	3	
WHIS0145	No	71910	GOLD, TOTAL (UG/L AS AU)	05/23/84-05/23/84	0	1	
WHIS0146	No	71910	GOLD, TOTAL (UG/L AS AU)	06/13/84-06/13/84	0	1	
WHIS0147	No	71910	GOLD, TOTAL (UG/L AS AU)	06/13/84-06/13/84	0	1	
WHIS0150	No	71910	GOLD, TOTAL (UG/L AS AU)	05/23/84-05/23/84	0	1	
WHIS0156	No	71910	GOLD, TOTAL (UG/L AS AU)	06/13/84-06/13/84	0	1	
WHIS0160	No	71910	GOLD, TOTAL (UG/L AS AU)	06/13/84-06/13/84	0	1	
WHIS0161	No	71910	GOLD, TOTAL (UG/L AS AU)	06/13/84-06/13/84	0	1	
WHIS0163	No	71910	GOLD, TOTAL (UG/L AS AU)	06/05/84-06/05/84	0	1	
WHIS0166	No	71910	GOLD, TOTAL (UG/L AS AU)	05/23/84-05/23/84	0	1	
WHIS0167	No	71910	GOLD, TOTAL (UG/L AS AU)	05/30/84-05/30/84	0	1	
WHIS0168	No	71910	GOLD, TOTAL (UG/L AS AU)	05/30/84-05/30/84	0	1	
WHIS0169	No	71910	GOLD, TOTAL (UG/L AS AU)	05/30/84-06/13/84	0	2	
WHIS0171	No	71910	GOLD, TOTAL (UG/L AS AU)	05/23/84-05/23/84	0	1	
WHIS0176	No	71910	GOLD, TOTAL (UG/L AS AU)	05/30/84-05/30/84	0	1	
WHIS0187	No	71910	GOLD, TOTAL (UG/L AS AU)	12/30/83-05/08/84	0	18	
WHIS0035	Yes	72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	04/26/78-10/18/91	13	1130	T,A,S
WHIS0052	Yes	72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	07/21/88-10/18/91	3	161	
WHIS0076	Yes	72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	01/24/72-10/18/91	19	1508	T,A,S
WHIS0084	No	72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	01/26/79-01/23/86	6	100	
WHIS0083	No	72034	FLOW, INSTANTANEOUS SPILLWAY DISCHARGE CFS	01/09/78-03/19/93	15	188	T,S
WHIS0030	Yes	77093	CIS-1,2-DICHLOROETHYLENE WHOLE WATER,UG/L	02/16/94-02/16/94	0	1	
WHIS0054	Yes	77093	CIS-1,2-DICHLOROETHYLENE WHOLE WATER,UG/L	07/10/92-07/10/92	0	1	
WHIS0030	Yes	77128	STYRENE WHOLE WATER,UG/L	02/16/94-02/16/94	0	1	
WHIS0054	Yes	77128	STYRENE WHOLE WATER,UG/L	07/10/92-07/10/92	0	1	
WHIS0030	Yes	77135	O-XYLENE WHOLE WATER,UG/L	02/16/94-02/16/94	0	1	
WHIS0054	Yes	77135	O-XYLENE WHOLE WATER,UG/L	07/10/92-07/10/92	0	1	
WHIS0030	Yes	77168	1,1-DICHLOROPROPENE WHOLE WATER,UG/L	02/16/94-02/16/94	0	1	
WHIS0054	Yes	77168	1,1-DICHLOROPROPENE WHOLE WATER,UG/L	07/10/92-07/10/92	0	1	
WHIS0030	Yes	77170	2,2-DICHLOROPROPANE WHOLE WATER,UG/L	02/16/94-02/16/94	0	1	
WHIS0054	Yes	77170	2,2-DICHLOROPROPANE WHOLE WATER,UG/L	07/10/92-07/10/92	0	1	
WHIS0030	Yes	77173	1,3-DICHLOROPROPANE WHOLE WATER,UG/L	02/16/94-02/16/94	0	1	
WHIS0054	Yes	77173	1,3-DICHLOROPROPANE WHOLE WATER,UG/L	07/10/92-07/10/92	0	1	
WHIS0030	Yes	77222	1,2,4-TRIMETHYLBENZENE WHOLE WATER,UG/L	02/16/94-02/16/94	0	1	
WHIS0054	Yes	77222	1,2,4-TRIMETHYLBENZENE WHOLE WATER,UG/L	07/10/92-07/10/92	0	1	
WHIS0030	Yes	77223	ISOPROPYLBENZENE WHOLE WATER,UG/L	02/16/94-02/16/94	0	1	
WHIS0054	Yes	77223	ISOPROPYLBENZENE WHOLE WATER,UG/L	07/10/92-07/10/92	0	1	
WHIS0030	Yes	77224	N-PROPYLBENZENE WHOLE WATER,UG/L	02/16/94-02/16/94	0	1	
WHIS0054	Yes	77224	N-PROPYLBENZENE WHOLE WATER,UG/L	07/10/92-07/10/92	0	1	
WHIS0030	Yes	77226	1,3,5-TRIMETHYLBENZENE WHOLE WATER,UG/L	02/16/94-02/16/94	0	1	
WHIS0054	Yes	77226	1,3,5-TRIMETHYLBENZENE WHOLE WATER,UG/L	07/10/92-07/10/92	0	1	
WHIS0030	Yes	77275	1-METHYL-2-CHLOROBENZENE (O-CHLOR*WHOLE WATER,UG/L	02/16/94-02/16/94	0	1	
WHIS0054	Yes	77275	1-METHYL-2-CHLOROBENZENE (O-CHLOR*WHOLE WATER,UG/L	07/10/92-07/10/92	0	1	
WHIS0030	Yes	77277	1-METHYL-4-CHLOROBENZENE (P-CHLOR*WHOLE WATER,UG/L	02/16/94-02/16/94	0	1	
WHIS0054	Yes	77277	1-METHYL-4-CHLOROBENZENE (P-CHLOR*WHOLE WATER,UG/L	07/10/92-07/10/92	0	1	
WHIS0030	Yes	77297	CHLOROBROMOMETHANE WHOLE WATER,UG/L	02/16/94-02/16/94	0	1	
WHIS0054	Yes	77297	CHLOROBROMOMETHANE WHOLE WATER,UG/L	07/10/92-07/10/92	0	1	
WHIS0030	Yes	77342	N-BUTYLBENZENE WHOLE WATER,UG/L	02/16/94-02/16/94	0	1	
WHIS0054	Yes	77342	N-BUTYLBENZENE WHOLE WATER,UG/L	07/10/92-07/10/92	0	1	
WHIS0030	Yes	77350	SEC-BUTYLBENZENE WHOLE WATER,UG/L	02/16/94-02/16/94	0	1	
WHIS0054	Yes	77350	SEC-BUTYLBENZENE WHOLE WATER,UG/L	07/10/92-07/10/92	0	1	
WHIS0030	Yes	77353	TERT-BUTYLBENZENE WHOLE WATER,UG/L	02/16/94-02/16/94	0	1	
WHIS0054	Yes	77353	TERT-BUTYLBENZENE WHOLE WATER,UG/L	07/10/92-07/10/92	0	1	
WHIS0030	Yes	77356	1-METHYL-4-ISOPROPYLBENZENE WHOLE WATER,UG/L	02/16/94-02/16/94	0	1	
WHIS0054	Yes	77356	1-METHYL-4-ISOPROPYLBENZENE WHOLE WATER,UG/L	07/10/92-07/10/92	0	1	
WHIS0030	Yes	77443	1,2,3-TRICHLOROPROPANE WHOLE WATER,UG/L	02/16/94-02/16/94	0	1	
WHIS0054	Yes	77443	1,2,3-TRICHLOROPROPANE WHOLE WATER,UG/L	07/10/92-07/10/92	0	1	
WHIS0030	Yes	77562	1,1,1,2-TETRACHLOROETHANE WHOLE WATER,UG/L	02/16/94-02/16/94	0	1	
WHIS0054	Yes	77562	1,1,1,2-TETRACHLOROETHANE WHOLE WATER,UG/L	07/10/92-07/10/92	0	1	
WHIS0030	Yes	77596	METHYLENE BROMIDE WHOLE WATER,UG/L	02/16/94-02/16/94	0	1	
WHIS0054	Yes	77596	METHYLENE BROMIDE WHOLE WATER,UG/L	07/10/92-07/10/92	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 11/20/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
WHIS0030	Yes	77613	1,2,3-TRICHLOROBENZENE WHOLE WATER,UG/L	02/16/94-02/16/94	0	1	
WHIS0054	Yes	77613	1,2,3-TRICHLOROBENZENE WHOLE WATER,UG/L	07/10/92-07/10/92	0	1	
WHIS0030	Yes	77651	1,2-DIBROMOETHANE WHOLE WATER,UG/L	07/24/89-02/16/94	4	3	
WHIS0054	Yes	77651	1,2-DIBROMOETHANE WHOLE WATER,UG/L	06/23/89-09/21/89	0	2	
WHIS0030	Yes	79743	GLYPHOSATE(GLYCINE,N-(PHOSPHONOMETHYL)-) TOTWUG/L	02/16/94-02/16/94	0	1	
WHIS0047	No	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/04/84-04/06/89	4	56	
WHIS0194	No	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	05/01/57-09/01/67	10	291	T,S
WHIS0194	No	80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	05/01/57-09/01/67	10	291	S
WHIS0047	No	80164	BED MATERIAL SIEVE DIAMETER,% FINER THAN .062MM	04/29/85-03/05/87	1	8	
WHIS0047	No	80165	BED MATERIAL SIEVE DIAMETER,% FINER THAN .125MM	12/07/84-03/05/87	2	16	
WHIS0047	No	80166	BED MATERIAL SIEVE DIAMETER,% FINER THAN .250MM	12/07/84-05/05/88	3	33	
WHIS0047	No	80167	BED MATERIAL SIEVE DIAMETER,% FINER THAN .500MM	12/07/84-05/05/88	3	37	
WHIS0047	No	80168	BED MATERIAL SIEVE DIAMETER,% FINER THAN 1.00MM	12/07/84-05/05/88	3	37	
WHIS0047	No	80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	12/07/84-05/05/88	3	37	
WHIS0047	No	80170	BED MATERIAL SIEVE DIAMETER,% FINER THAN 4.00MM	12/07/84-05/05/88	3	37	
WHIS0047	No	80171	BED MATERIAL SIEVE DIAMETER,% FINER THAN 8.00MM	12/07/84-05/05/88	3	33	
WHIS0047	No	80172	BED MATERIAL SIEVE DIAMETER,% FINER THAN 16.0MM	01/18/86-12/10/87	1	11	
WHIS0047	No	80173	BED MATERIAL SIEVE DIAMETER,% FINER THAN 32.0MM	03/05/87-12/10/87	0	3	
WHIS0047	No	80174	BED MATERIAL SIEVE DIAMETER,% FINER THAN 64.0MM	03/05/87-03/05/87	0	2	
WHIS0047	No	80225	BEDLOAD SEDIMENT DISCHARGE (TONS/DAY)	01/30/86-04/06/89	3	7	
WHIS0047	No	80228	BEDLOAD SEDIMENT SIEVE DIAM, % FINER THAN .250MM	01/30/86-04/06/89	3	6	
WHIS0047	No	80229	BEDLOAD SEDIMENT SIEVE DIAM, % FINER THAN .500MM	01/30/86-04/06/89	3	7	
WHIS0047	No	80230	BEDLOAD SEDIMENT SIEVE DIAM, % FINER THAN 1.00MM	01/30/86-04/06/89	3	7	
WHIS0047	No	80231	BEDLOAD SEDIMENT SIEVE DIAM, % FINER THAN 2.00MM	01/30/86-04/06/89	3	7	
WHIS0047	No	80232	BEDLOAD SEDIMENT SIEVE DIAM, % FINER THAN 4.00MM	01/30/86-04/06/89	3	7	
WHIS0047	No	80233	BEDLOAD SEDIMENT SIEVE DIAM, % FINER THAN 8.00MM	01/30/86-04/06/89	3	7	
WHIS0047	No	80234	BEDLOAD SEDIMENT SIEVE DIAM, % FINER THAN 16.0MM	02/11/86-02/11/86	0	1	
WHIS0030	Yes	81405	CARBOFURAN (EURADAN) WHOLE WATER SAMPLE UG/L	02/16/94-02/16/94	0	1	
WHIS0030	Yes	81551	XYLENE WHL WATER SMPL UG/L	02/16/94-02/16/94	0	1	
WHIS0054	Yes	81551	XYLENE WHL WATER SMPL UG/L	07/10/92-07/10/92	0	1	
WHIS0030	Yes	81555	BROMOBENZENE WHL WATER SMPL UG/L	02/16/94-02/16/94	0	1	
WHIS0054	Yes	81555	BROMOBENZENE WHL WATER SMPL UG/L	07/10/92-07/10/92	0	1	
WHIS0030	Yes	81595	METHYL ETHYL KETONE WHL WATER SMPL UG/L	02/16/94-02/16/94	0	1	
WHIS0030	Yes	81596	METHYL-ISOBUTYL KETONE WHL WATER SMPL UG/L	02/16/94-02/16/94	0	1	
WHIS0030	Yes	81611	TRICHLOROTRIFLUOROETHANE WHL WATER SMPL UG/L	02/16/94-02/16/94	0	1	
WHIS0054	Yes	81611	TRICHLOROTRIFLUOROETHANE WHL WATER SMPL UG/L	07/10/92-07/10/92	0	1	
WHIS0030	Yes	81855	ASBESTOS (FIBROUS-CHRYSOTILE) WHL WAT FIBERS/LITER	07/18/96-07/18/96	0	1	
WHIS0097	No	82032	CALCIUM - TOTAL UG/L (AS CA)	05/22/84-06/05/84	0	2	
WHIS0102	No	82032	CALCIUM - TOTAL UG/L (AS CA)	05/22/84-06/05/84	0	2	
WHIS0119	No	82032	CALCIUM - TOTAL UG/L (AS CA)	06/13/84-06/13/84	0	1	
WHIS0128	No	82032	CALCIUM - TOTAL UG/L (AS CA)	06/13/84-06/13/84	0	1	
WHIS0141	No	82032	CALCIUM - TOTAL UG/L (AS CA)	05/23/84-05/23/84	0	1	
WHIS0142	No	82032	CALCIUM - TOTAL UG/L (AS CA)	05/23/84-06/13/84	0	3	
WHIS0145	No	82032	CALCIUM - TOTAL UG/L (AS CA)	05/23/84-05/23/84	0	1	
WHIS0146	No	82032	CALCIUM - TOTAL UG/L (AS CA)	06/13/84-06/13/84	0	1	
WHIS0147	No	82032	CALCIUM - TOTAL UG/L (AS CA)	06/13/84-06/13/84	0	1	
WHIS0150	No	82032	CALCIUM - TOTAL UG/L (AS CA)	05/23/84-05/23/84	0	1	
WHIS0156	No	82032	CALCIUM - TOTAL UG/L (AS CA)	06/13/84-06/13/84	0	1	
WHIS0160	No	82032	CALCIUM - TOTAL UG/L (AS CA)	06/13/84-06/13/84	0	1	
WHIS0161	No	82032	CALCIUM - TOTAL UG/L (AS CA)	06/13/84-06/13/84	0	1	
WHIS0163	No	82032	CALCIUM - TOTAL UG/L (AS CA)	05/22/84-06/05/84	0	2	
WHIS0166	No	82032	CALCIUM - TOTAL UG/L (AS CA)	05/23/84-05/23/84	0	1	
WHIS0167	No	82032	CALCIUM - TOTAL UG/L (AS CA)	05/30/84-05/30/84	0	1	
WHIS0168	No	82032	CALCIUM - TOTAL UG/L (AS CA)	05/30/84-05/30/84	0	1	
WHIS0169	No	82032	CALCIUM - TOTAL UG/L (AS CA)	05/30/84-06/13/84	0	2	
WHIS0171	No	82032	CALCIUM - TOTAL UG/L (AS CA)	05/23/84-05/23/84	0	1	
WHIS0176	No	82032	CALCIUM - TOTAL UG/L (AS CA)	05/30/84-05/30/84	0	1	
WHIS0187	No	82032	CALCIUM - TOTAL UG/L (AS CA)	12/30/83-05/08/84	0	18	
WHIS0011	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	08/03/84-08/03/84	0	1	
WHIS0013	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	08/10/84-08/10/84	0	1	
WHIS0020	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	07/20/84-07/20/84	0	1	
WHIS0023	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	07/20/84-07/20/84	0	1	
WHIS0029	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	10/05/70-06/02/94	23	95	T,S
WHIS0038	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	08/10/84-08/10/84	0	1	
WHIS0135	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	08/31/84-08/31/84	0	1	
WHIS0144	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	08/31/84-08/31/84	0	1	
WHIS0175	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	09/27/84-09/27/84	0	1	
WHIS0004	No	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	10/07/97-01/05/98	0	4	
WHIS0007	Yes	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	10/07/97-01/06/98	0	4	
WHIS0015	Yes	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	11/13/97-01/06/98	0	3	
WHIS0027	Yes	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	03/13/81-03/13/81	0	1	
WHIS0028	Yes	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	06/21/78-06/11/85	6	5	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 11/20/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
WHIS0029	Yes	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	12/17/81-08/30/90	8	190	T,S
WHIS0030	Yes	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	06/27/91-06/27/91	0	1	
WHIS0033	Yes	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	10/08/97-12/02/97	0	64	
WHIS0042	Yes	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	04/16/84-04/16/84	0	1	
WHIS0060	Yes	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	06/21/78-04/28/83	4	5	
WHIS0063	Yes	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	04/16/84-04/16/84	0	1	
WHIS0067	Yes	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	08/13/97-12/02/97	0	5	
WHIS0113	Yes	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	11/13/97-01/06/98	0	3	
WHIS0124	Yes	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	04/16/84-04/16/84	0	1	
WHIS0152	Yes	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	10/07/97-01/06/98	0	4	
WHIS0157	Yes	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	10/07/97-01/06/98	0	4	
WHIS0195	No	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	11/13/97-01/06/98	0	3	
WHIS0197	No	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	10/07/97-01/06/98	0	4	
WHIS0030	Yes	82080	TRIHALOMETHANE TOTAL IN WATER, BY SUMMATION UG/L	02/16/94-02/16/94	0	1	
WHIS0054	Yes	82080	TRIHALOMETHANE TOTAL IN WATER, BY SUMMATION UG/L	07/10/92-07/10/92	0	1	
WHIS0030	Yes	82199	ORDRAM (HYDRAM) IN WATER UG/L	02/16/94-02/16/94	0	1	
WHIS0054	Yes	82383	AGGRESSIVE INDEX = PH + LOG(AH) INDEX	07/23/96-07/23/96	0	1	
WHIS0030	Yes	85795	XYLENE, META & PARA, WATER, WHOLE UG/L	02/16/94-02/16/94	0	1	
WHIS0054	Yes	85795	XYLENE, META & PARA, WATER, WHOLE UG/L	07/10/92-07/10/92	0	1	

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

Station-By-Station Results

Station Inventory for Station: WHIS0001

NPS Station ID: WHIS0001
LAT/LON: 40.510281/-122.516949
Agency: 21CAL-1
Date Created: 04/26/86
Location: CLEAR C BLW PLACER RD
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): A0399000
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 18020101
Depth of Water: 0
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER BASIN
ECO Region:
RF1 Index: 18020101018
RF1 Mile Point: 9.990
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 18020101001809.04
RF3 Mile Point: 9.47
Distance from RF3: 0.00
On/Off RF3:
Description:
CLEAR C BLW PLACER RD

Parameter Inventory for Station: WHIS0001

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: WHIS0002

NPS Station ID: WHIS0002 | LAT/LON: 40.513059/-122.523337 | Agency: 21CAL-1 | Date Created: 08/27/76
Location: CLEAR CREEK NEAR IGO | | FIPS State/County: 06089 CALIFORNIA/SHASTA |
Station Type: /TYPA/AMBNT/STREAM | | STORET Station ID(s): A3613000 /5246101 |
RMI-Indexes: | | Within Park Boundary: No |
RMI-Miles: | | |
HUC: 18020101 | Depth of Water: 0 | Aquifer: |
Major Basin: SACRAMENTO RIVER BASIN | Elevation: 0 | Water Body Id: |
Minor Basin: SACRAMENTO VALLEY WESTSIDE | | ECO Region: |
RF1 Index: 18020101 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: 18020102000800.00 | RF3 Mile Point: 0.87 | Distance from RF3: 0.02 | On/Off RF3:
Description:
SURFACE WATER STATION; DATA MANAGER CODE: 5; AREAL CODE: ; BEGINNING OF RECORD: . ; ELEVATION: 670 ;
STATION NAME: CLEAR CREEK NEAR IGO ; DWR COUNTY CODE: 45; LATITUDE: 403048; LONGITUDE: 1223123;
CALIFORNIA COORDINATES: NORTH 430300 , EAST 1854600, ZONE 1;
PUBLIC LAND SURVEY LOCATION: TOWNSHIP 31N, RANGE 06, SECTION 27HBASE M;
USGS QUADRANGLE NUMBER: 93 93; DRAINAGE AREA:228 ; GROUND WATER BASIN: ; NEAREST GAGE: A36130;
AGENCY-1: , ACODE ; AGENCY-2: , A2CODE ;
REMARKS:

Parameter Inventory for Station: WHIS0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/28/58-09/04/86	177	14.	14.55	28.3	2.2	24.946	4.995	7.8	10.6	18.3	21.1
00011p	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/27/55-09/19/88	45	54.	52.156	71.	38.	51.862	7.202	42.6	47.	57.5	61.
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/28/58-09/19/88	144	84.	263.521	4380.	19.	321047.328	566.61	40.5	52.	158.	710.
00065	STAGE, STREAM (FEET)	02/11/52-09/19/88	156	2.65	2.929	6.98	2.19	0.655	0.809	2.36	2.44	3.013	4.163
00075p	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	01/27/55-09/27/71	103	3.	8.34	140.	0.	311.305	17.644	1.	1.	8.	15.
00076p	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	04/14/72-09/19/88	91	1.	2.033	24.	0.	9.388	3.064	1.	1.	2.	3.8
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/14/72-09/19/88	95	91.	95.221	221.	68.	555.557	23.57	74.6	79.	102.	116.4
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/11/52-09/19/88	73	94.	114.247	220.	58.	2002.411	44.748	72.	85.	136.5	192.6
00300p	OXYGEN, DISSOLVED MG/L	01/27/55-09/19/88	214	10.7	10.614	13.5	6.5	1.659	1.288	9.	9.8	11.7	12.2
00310	BOD, 5 DAY, 20 DEG C MG/L	05/20/87-09/19/88	3	1.1	1.067	1.7	0.4	0.423	0.651	**	**	**	**
00400p	PH (STANDARD UNITS)	01/27/55-09/19/88	208	7.4	7.487	8.4	6.7	0.089	0.298	7.2	7.3	7.7	7.9
00400p	CONVERTED PH (STANDARD UNITS)	01/27/55-09/19/88	208	7.4	7.396	8.4	6.7	0.097	0.312	7.2	7.3	7.7	7.9
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/27/55-09/19/88	208	0.04	0.04	0.2	0.004	0.001	0.027	0.013	0.02	0.05	0.063
00403p	PH, LAB, STANDARD UNITS SU	02/11/52-09/19/88	100	7.6	7.616	8.6	6.7	0.101	0.318	7.3	7.4	7.8	8.
00403p	CONVERTED PH, LAB, STANDARD UNITS	02/11/52-09/19/88	100	7.6	7.501	8.6	6.7	0.114	0.338	7.3	7.4	7.8	8.
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/11/52-09/19/88	100	0.025	0.032	0.2	0.003	0.001	0.029	0.01	0.016	0.04	0.05
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	01/15/65-09/20/78	51	38.	36.549	46.	13.	37.213	6.1	28.2	34.	41.	43.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/08/77-09/14/77	2	0.005	0.005	0.01	0.	0.	0.007	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	04/18/74-04/11/78	5	0.02	0.016	0.03	0.	0.	0.011	**	**	**	**
00629	NITROGEN, ORGANIC KJELDAHL, TOTAL (MG/L AS N)	09/14/77-09/14/77	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00635	NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	04/18/74-09/19/88	6	0.2	0.183	0.3	0.	0.01	0.098	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/18/74-04/11/78	4	0.015	0.023	0.05	0.01	0.	0.019	**	**	**	**

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

Parameter Inventory for Station: WHIS0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/21/58-09/14/77	21	0.	0.009	0.05	0.	0.	0.014	0.	0.	0.02	0.028
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	02/11/52-09/19/88	72	40.	42.319	90.	24.	160.558	12.671	26.	34.	50.	62.7
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	02/11/52-09/19/88	45	7.2	9.3	21.	4.3	20.254	4.5	5.36	6.	12.	18.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	02/11/52-09/19/88	45	4.	4.369	9.	1.8	3.314	1.821	2.16	2.95	6.	7.08
00930p	SODIUM, DISSOLVED (MG/L AS NA)	02/11/52-09/19/88	73	4.2	6.453	18.	2.	20.039	4.476	2.8	3.4	8.9	14.6
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	02/11/52-09/19/88	41	0.7	0.732	1.4	0.	0.111	0.333	0.32	0.5	0.95	1.28
00941p	CHLORIDE, DISSOLVED IN WATER MG/L	02/11/52-09/19/88	144	3.	6.585	29.	0.5	48.784	6.985	2.	2.	8.	19.
00946p	SULFATE, DISSOLVED (MG/L AS SO4)	02/11/52-05/23/85	48	6.15	6.369	17.	0.	17.199	4.147	0.8	3.	9.375	11.2
00950	FLUORIDE, DISSOLVED (MG/L AS F)	02/11/52-09/05/60	22	0.	0.045	0.3	0.	0.007	0.086	0.	0.	0.1	0.2
00955	SILICA, DISSOLVED (MG/L AS SI02)	02/11/52-05/04/67	23	16.	16.652	23.	12.	6.874	2.622	13.4	15.	18.	21.2
01000	ARSENIC, DISSOLVED (UG/L AS AS)	01/27/55-05/24/71	18	0.	1.111	10.	0.	10.458	3.234	0.	0.	0.	10.
01005	BARIUM, DISSOLVED (UG/L AS BA)	05/24/71-05/24/71	1	100.	100.	100.	100.	0.	0.	**	**	**	**
01020p	BORON, DISSOLVED (UG/L AS B)	02/11/52-09/24/85	68	0.	23.235	200.	0.	2037.138	45.135	0.	0.	17.5	100.
01025	CADMIUM, DISSOLVED (UG/L AS CD)	05/24/71-05/24/71	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	04/18/74-04/18/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/21/58-05/08/61	6	0.	0.	0.	0.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	01/27/55-09/07/61	9	0.	3.333	10.	0.	25.	5.	0.	0.	10.	10.
01042	COPPER, TOTAL (UG/L AS CU)	04/18/74-04/18/74	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	09/07/61-04/18/74	2	750.	750.	1200.	300.	405000.	636.396	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	01/27/55-05/08/61	8	30.	35.	80.	10.	571.429	23.905	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	01/27/55-05/24/71	10	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
01051	LEAD, TOTAL (UG/L AS PB)	04/18/74-04/18/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	04/18/74-04/18/74	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	01/27/55-09/07/61	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
01090	ZINC, DISSOLVED (UG/L AS ZN)	01/27/55-09/07/61	9	0.	5.556	30.	0.	102.778	10.138	0.	0.	10.	30.
01092	ZINC, TOTAL (UG/L AS ZN)	04/18/74-04/18/74	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	05/24/71-05/24/71	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01220	CHROMIUM, HEXAVALENT, DISSOLVED IN (UG/L AS CR)	01/27/55-11/14/58	2	0.	0.	0.	0.	0.	0.	**	**	**	**
11006	INVALID PARAMETER	01/27/55-09/07/61	9	30.	28.889	60.	0.	336.111	18.333	0.	15.	40.	60.
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	05/20/87-09/19/88	3	170.	366.667	900.	30.	218233.333	467.155	**	**	**	**
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	05/20/87-09/19/88	3	2.23	2.221	2.954	1.477	0.546	0.739	**	**	**	**
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			166.19								
31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	05/11/88-09/19/88	2	16.	16.	30.	2.	392.	19.799	**	**	**	**
31615	LOG FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	05/11/88-09/19/88	2	0.889	0.889	1.477	0.301	0.692	0.832	**	**	**	**
31615	GM FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	GEOMETRIC MEAN =			7.746								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/20/87-05/20/87	1	11.	11.	11.	11.	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/20/87-05/20/87	1	1.041	1.041	1.041	1.041	0.	0.	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			11.								
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	05/08/61-05/04/67	10	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39036p	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	02/11/52-09/19/88	110	40.5	39.827	90.	20.	128.805	11.349	25.1	31.75	44.	54.9
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/14/62-09/19/88	21	59.	65.095	135.	42.	470.39	21.688	53.2	55.5	62.	110.4
71851p	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	02/11/52-05/23/85	34	0.1	0.268	1.7	0.	0.146	0.382	0.	0.	0.4	0.8
71890	MERCURY, DISSOLVED (UG/L AS HG)	05/24/71-05/24/71	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	05/24/71-05/24/71	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0002

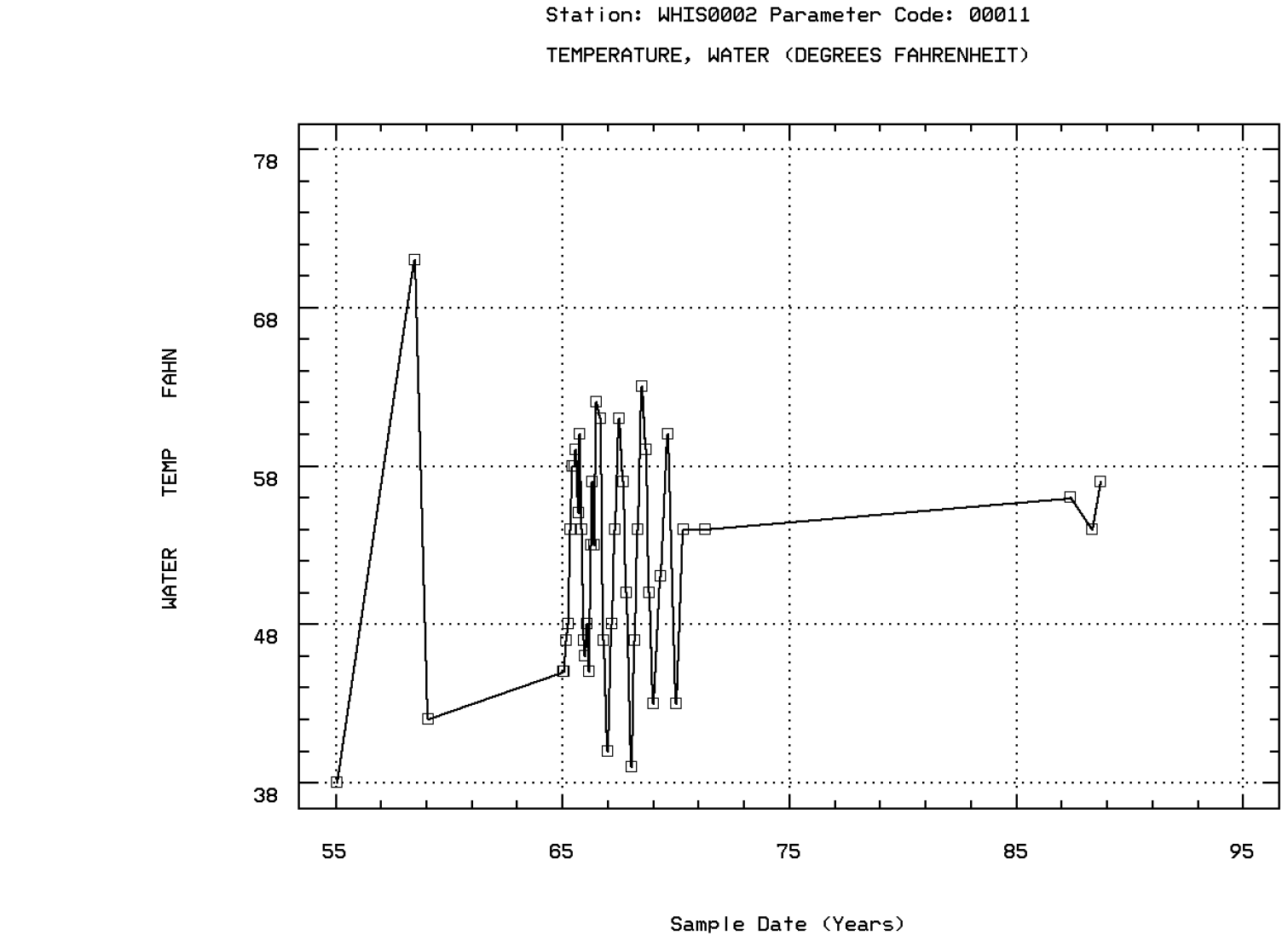
Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	91	0	0.00	59	0	0.00	5	0	0.00	27	0	0.00			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	214	0	0.00	119	0	0.00	33	0	0.00	62	0	0.00			
00400	PH	Fresh Chronic	9.	208	0	0.00	114	0	0.00	35	0	0.00	59	0	0.00			
		Other-Lo Lim.	6.5	208	0	0.00	114	0	0.00	35	0	0.00	59	0	0.00			
00403	PH, LAB	Fresh Chronic	9.	100	0	0.00	54	0	0.00	14	0	0.00	32	0	0.00			
		Other-Lo Lim.	6.5	100	0	0.00	54	0	0.00	14	0	0.00	32	0	0.00			
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	144	0	0.00	68	0	0.00	33	0	0.00	43	0	0.00			
		Drinking Water	250.	144	0	0.00	68	0	0.00	33	0	0.00	43	0	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: WHIS0002

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	48	0	0.00	24	0	0.00	6	0	0.00	18	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	22	0	0.00	10	0	0.00	6	0	0.00	6	0	0.00			
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	18	0	0.00	7	0	0.00	2	0	0.00	9	0	0.00			
		Drinking Water	50.	18	0	0.00	7	0	0.00	2	0	0.00	9	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			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1	0	0.00							1	0	0.00			
		Drinking Water	5.	1	0	0.00							1	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	6	0	0.00	2	0	0.00				4	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	9	0	0.00	3	0	0.00	2	0	0.00	4	0	0.00			
		Drinking Water	1300.	9	0	0.00	3	0	0.00	2	0	0.00	4	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	1	0	0.00							1	0	0.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	10	0	0.00	3	0	0.00	2	0	0.00	5	0	0.00			
		Drinking Water	15.	10	0	0.00	3	0	0.00	2	0	0.00	5	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00							1	0	0.00			
		Drinking Water	15.	1	0	0.00							1	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	9	0	0.00	3	0	0.00	2	0	0.00	4	0	0.00			
		Drinking Water	5000.	9	0	0.00	3	0	0.00	2	0	0.00	4	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00							1	0	0.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
01220	CHROMIUM, HEXAVALENT, DISSOLVED	Fresh Acute	16.	2	0	0.00				2	0	0.00						
		Drinking Water	100.	2	0	0.00				2	0	0.00						
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	3	0	0.00	1	0	0.00				2	0	0.00			
31615	FECAL COLIFORM, MPN	Other-Hi Lim.	200.	2	0	0.00	1	0	0.00				1	0	0.00			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	1	0	0.00							1	0	0.00			
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	34	0	0.00	16	0	0.00	6	0	0.00	12	0	0.00			
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	1	0	0.00							1	0	0.00			
		Drinking Water	2.	1	0	0.00							1	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00							1	0	0.00			
		Drinking Water	2.	1	0	0.00							1	0	0.00			

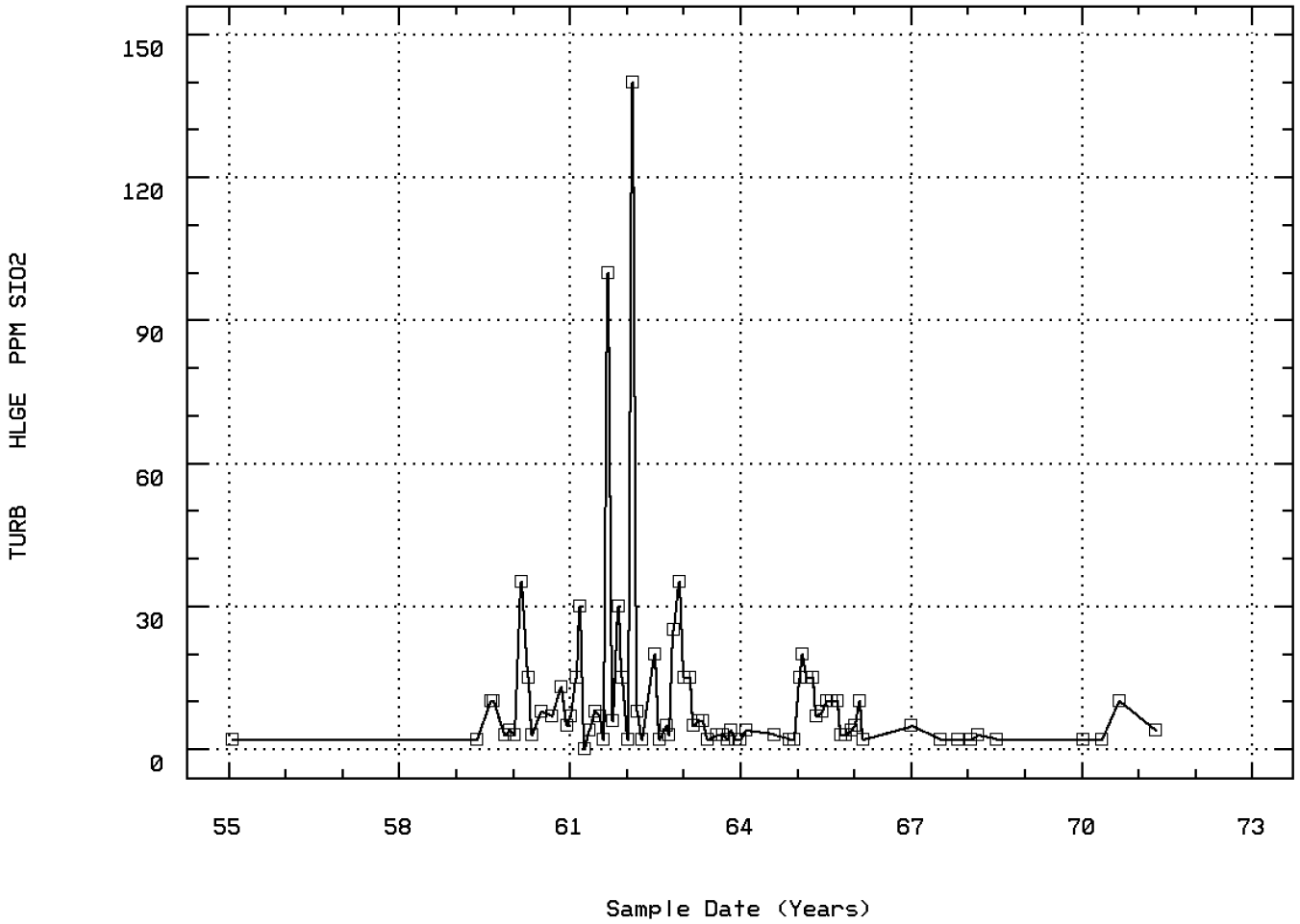
& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter



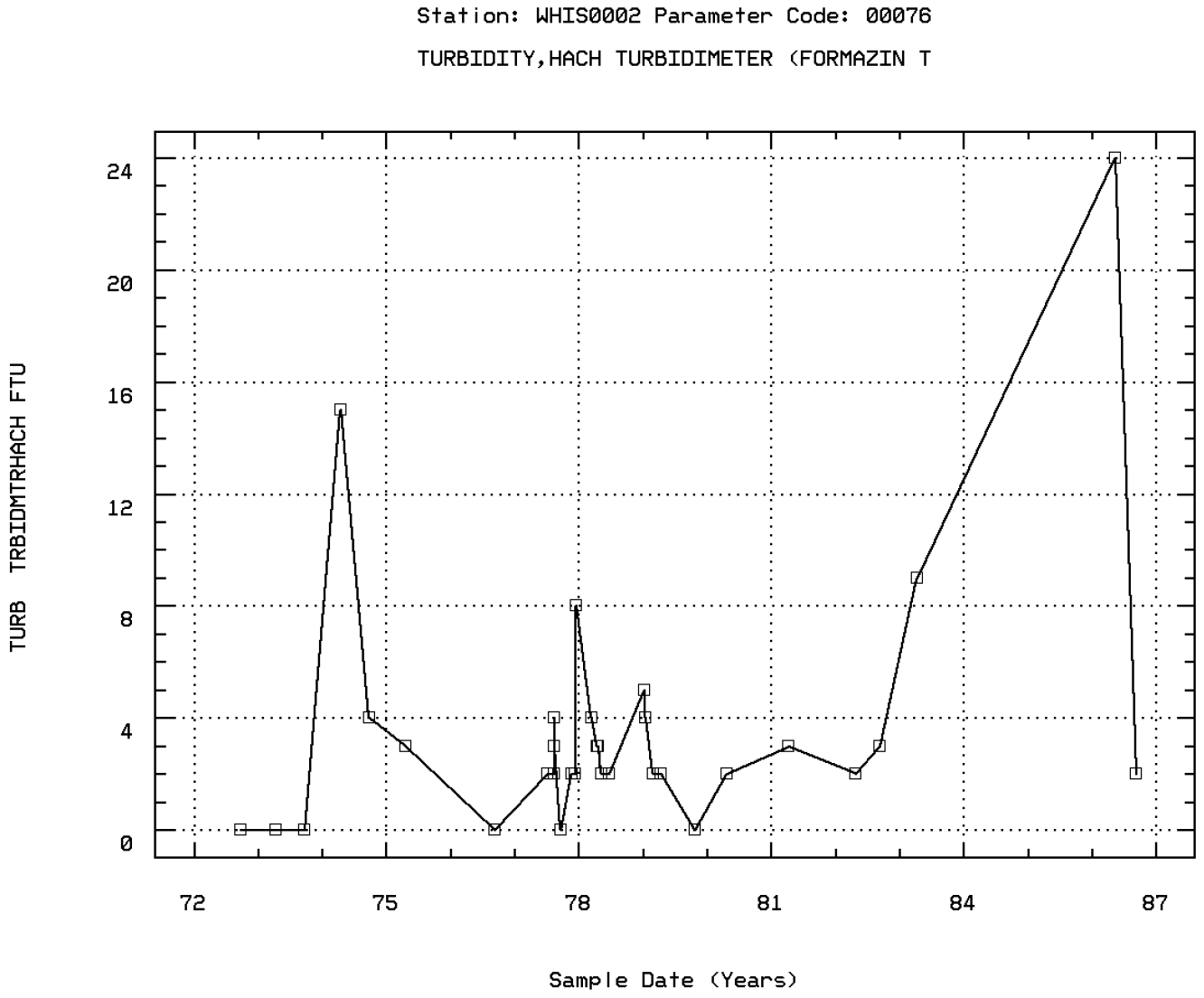
CLEAR CREEK NEAR IGO

Station: WHIS0002 Parameter Code: 00075

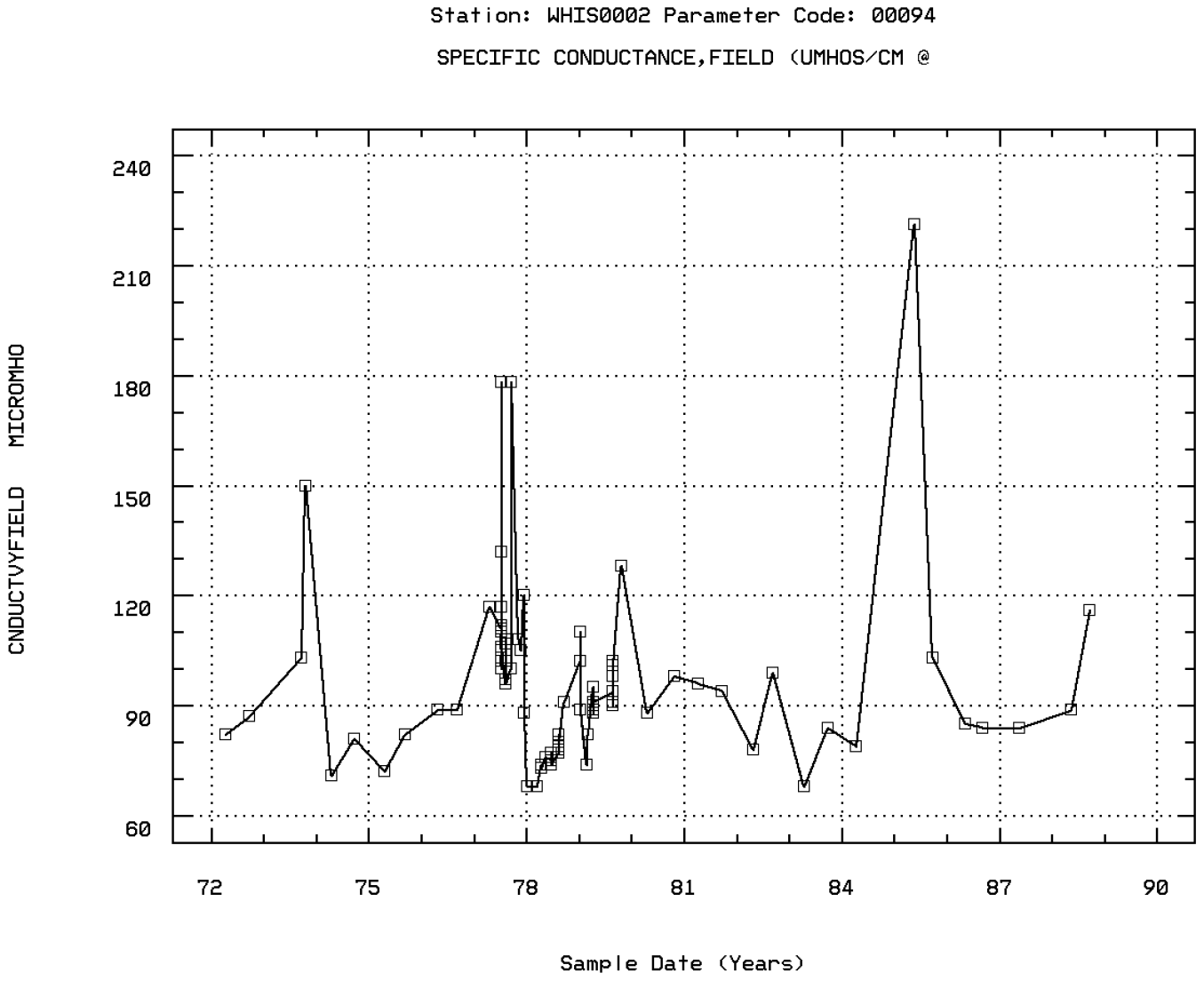
TURBIDITY, HELLIGE (PPM AS SILICON DIOX



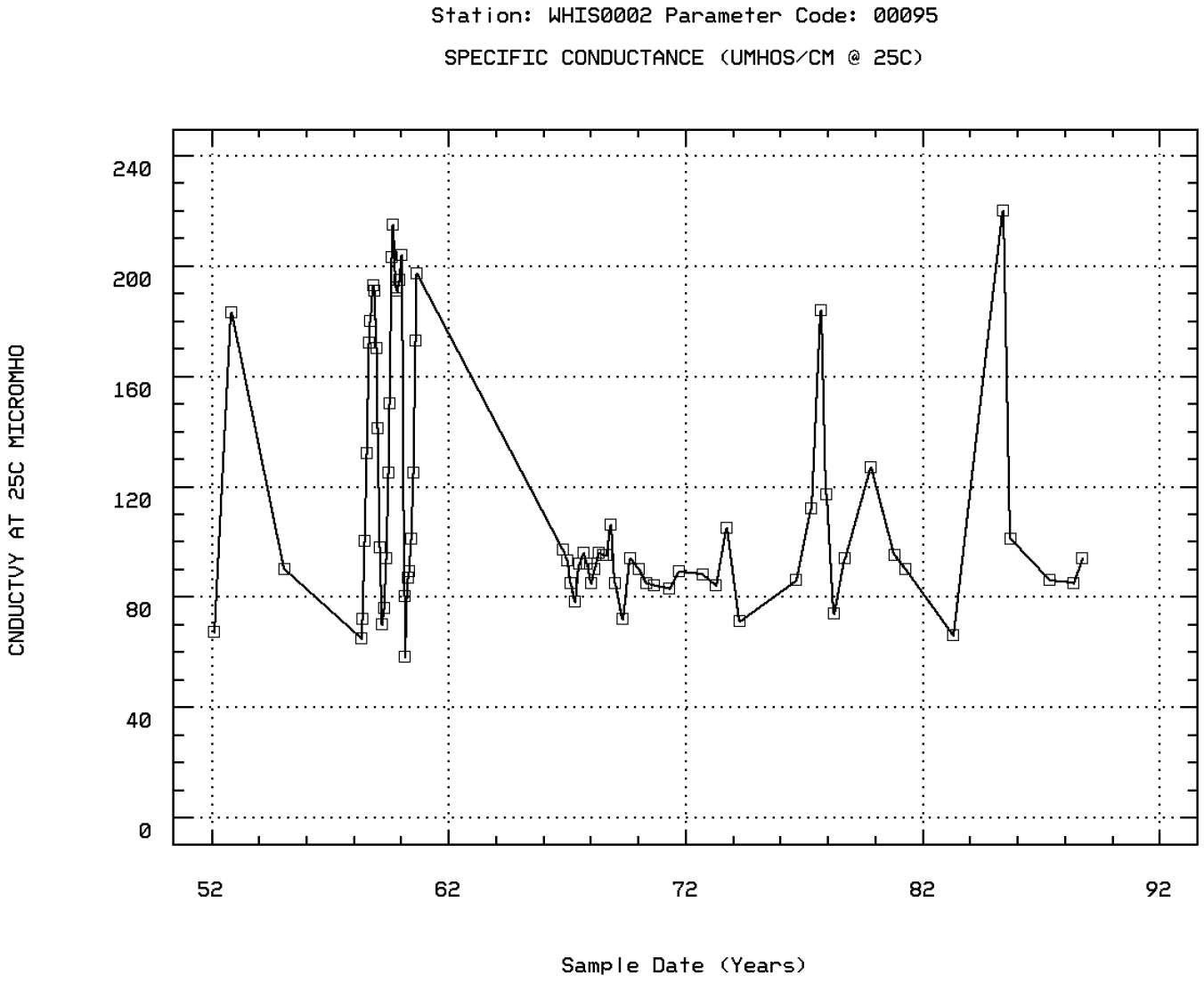
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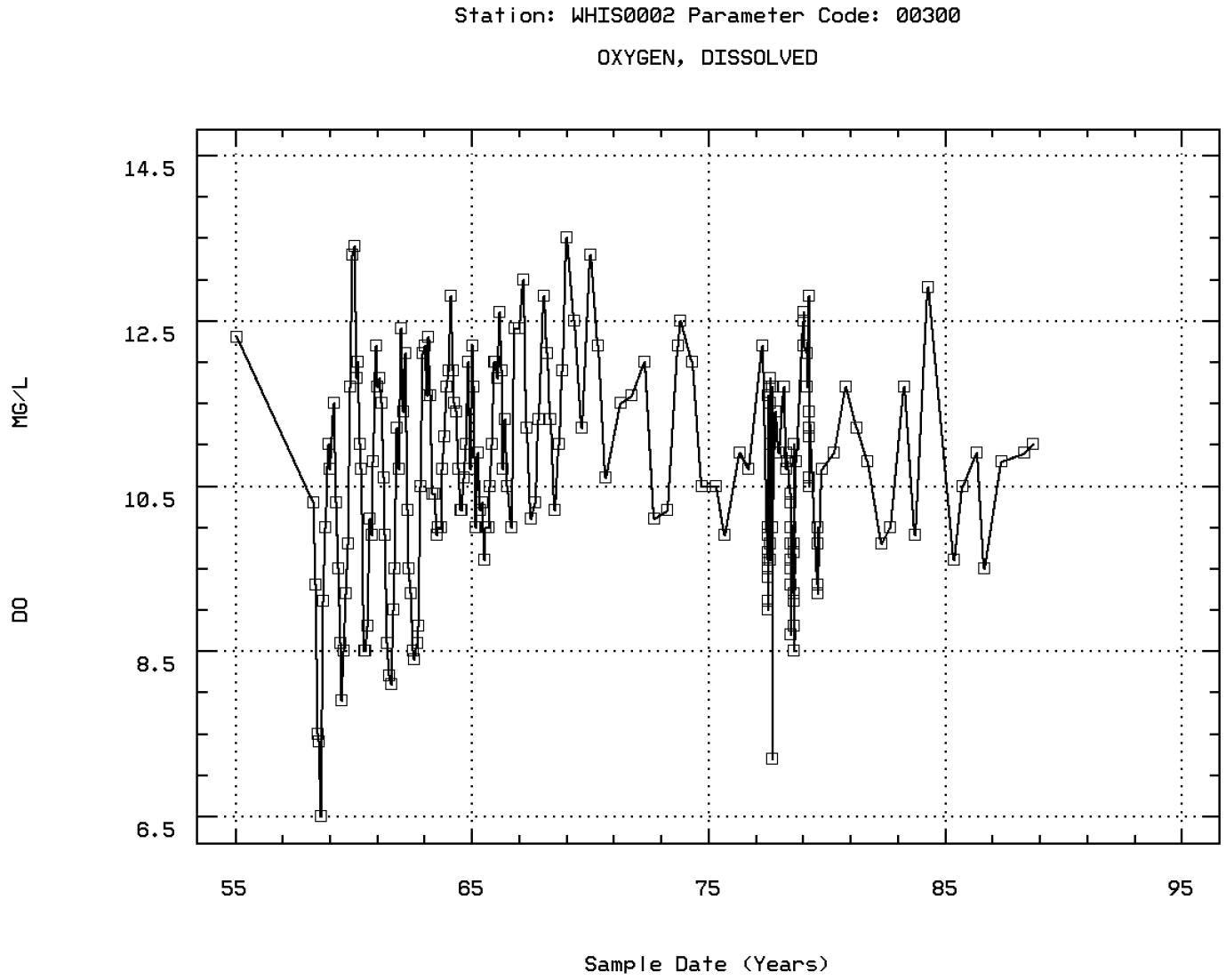
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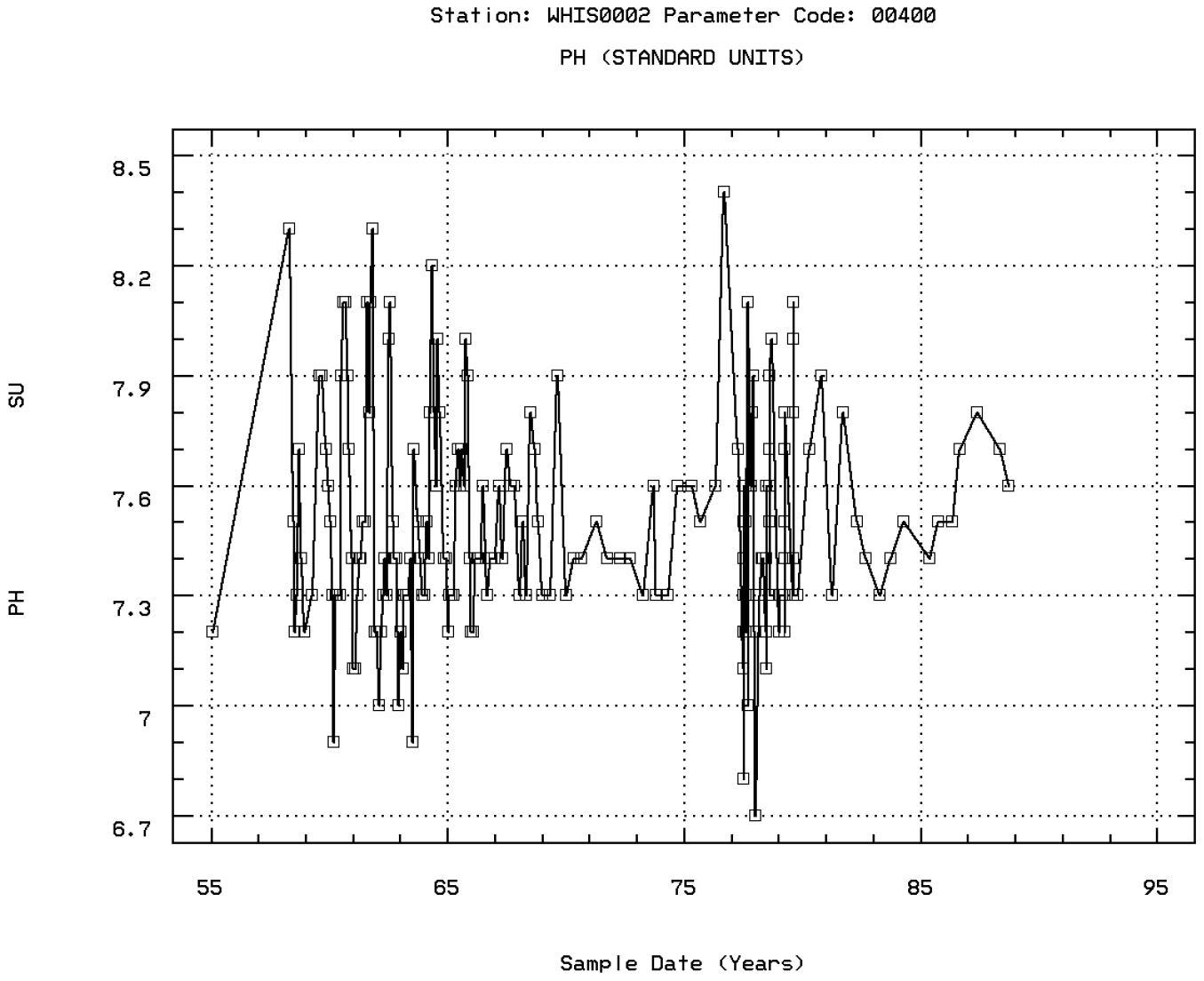
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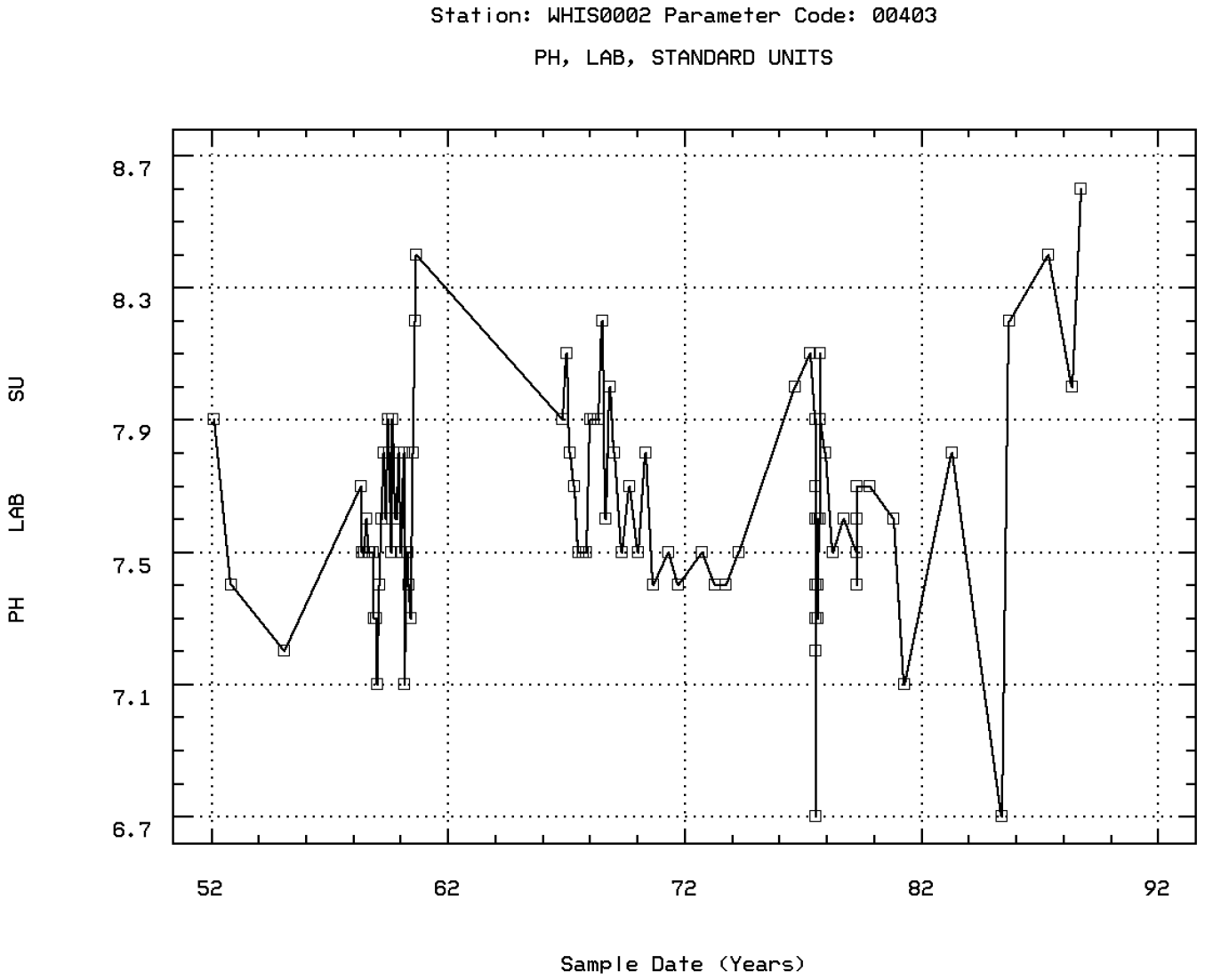
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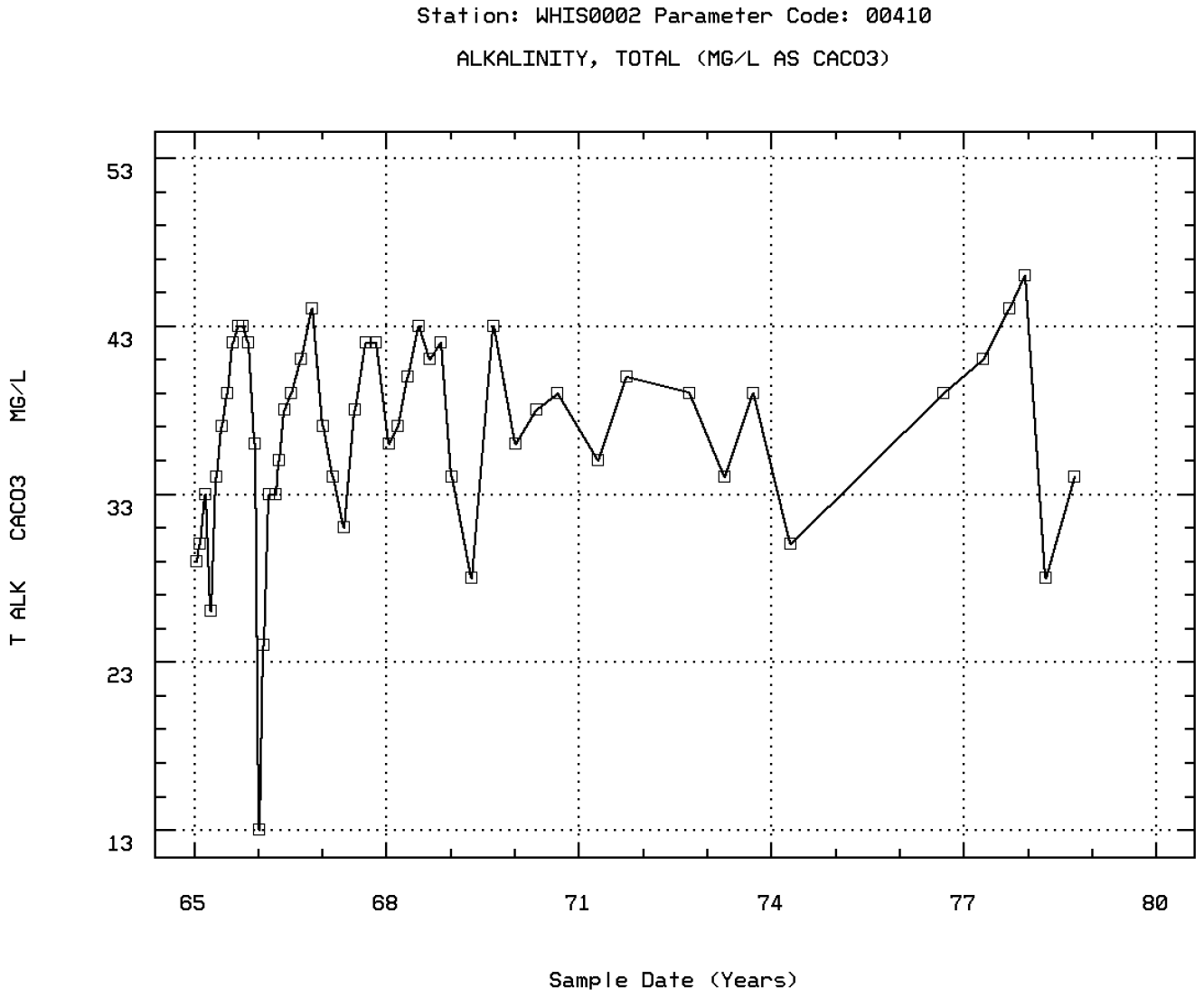
CLEAR CREEK NEAR IGO



CLEAR CREEK NEAR IGO



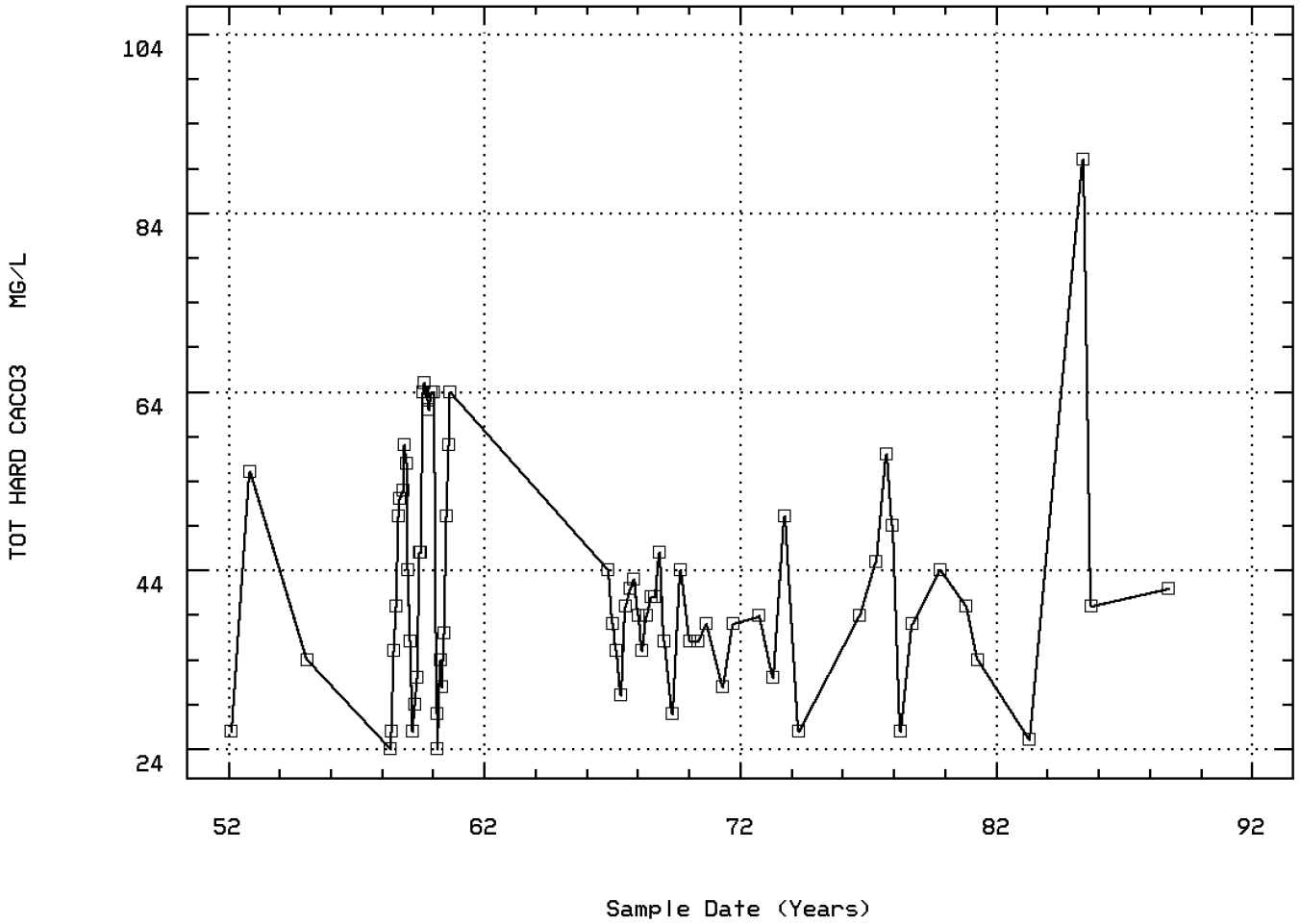
CLEAR CREEK NEAR IGO



CLEAR CREEK NEAR IGO

Station: WHIS0002 Parameter Code: 00900

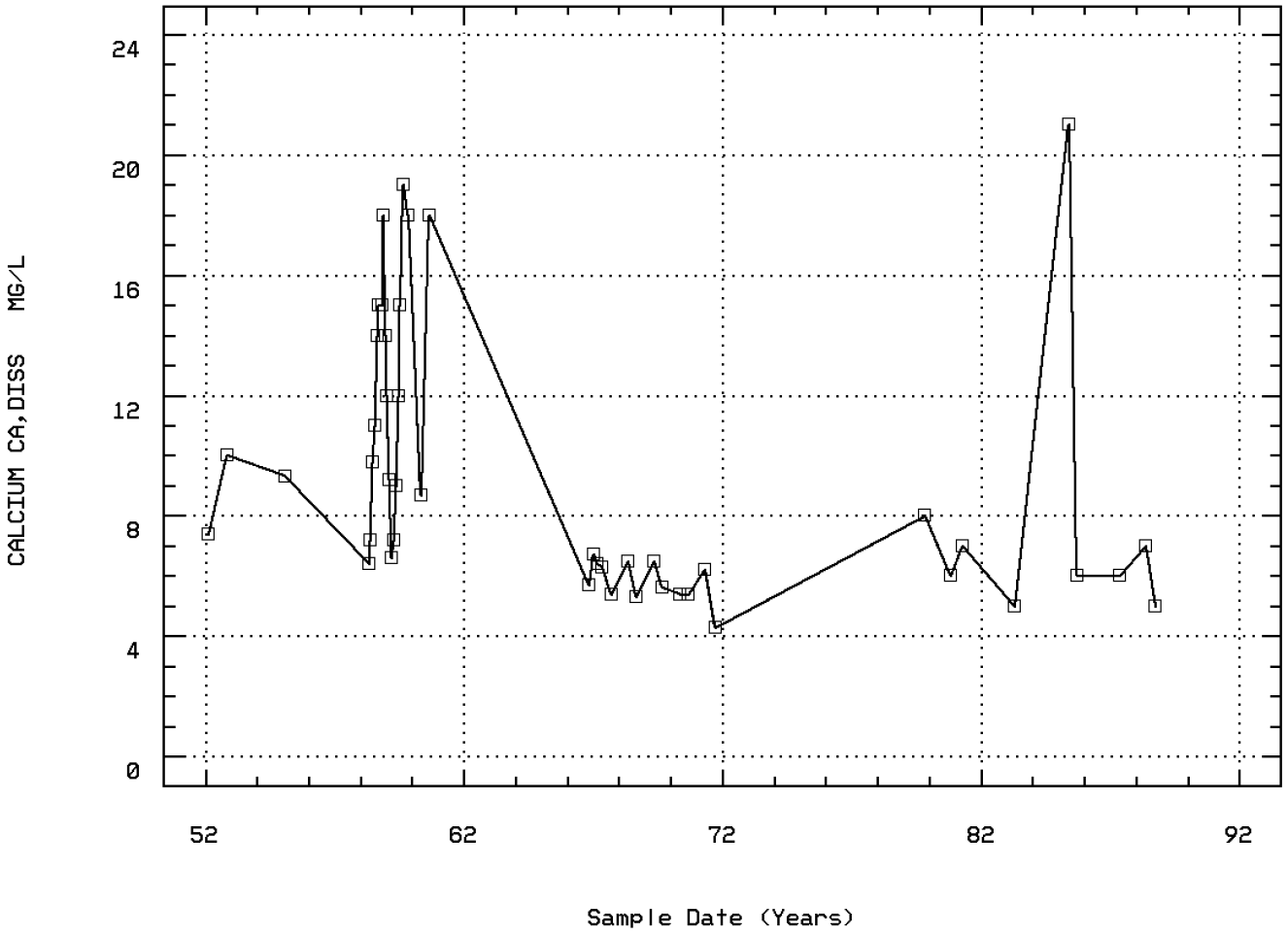
HARDNESS, TOTAL (MG/L AS CACO3)



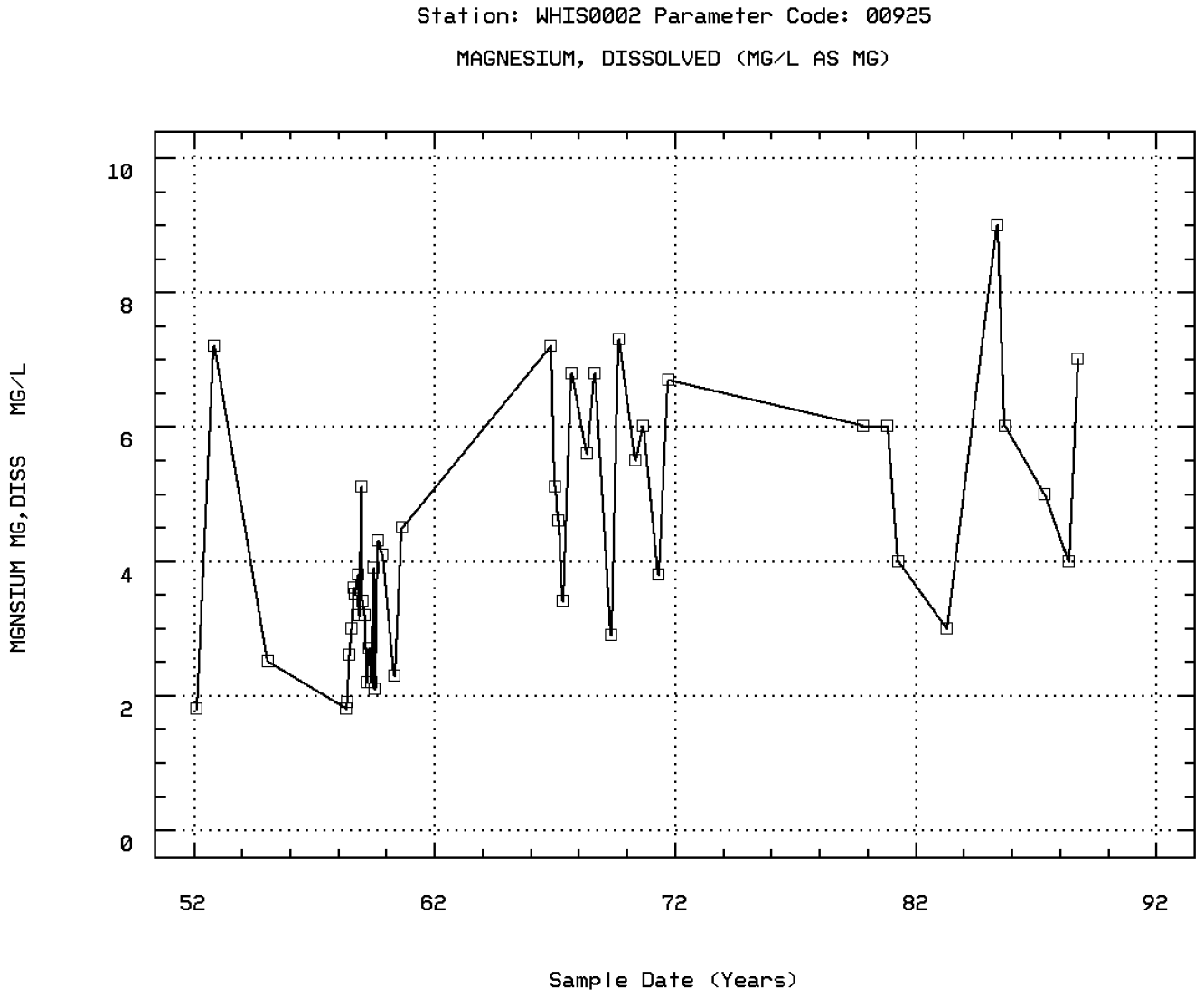
CLEAR CREEK NEAR IGO

Station: WHIS0002 Parameter Code: 00915

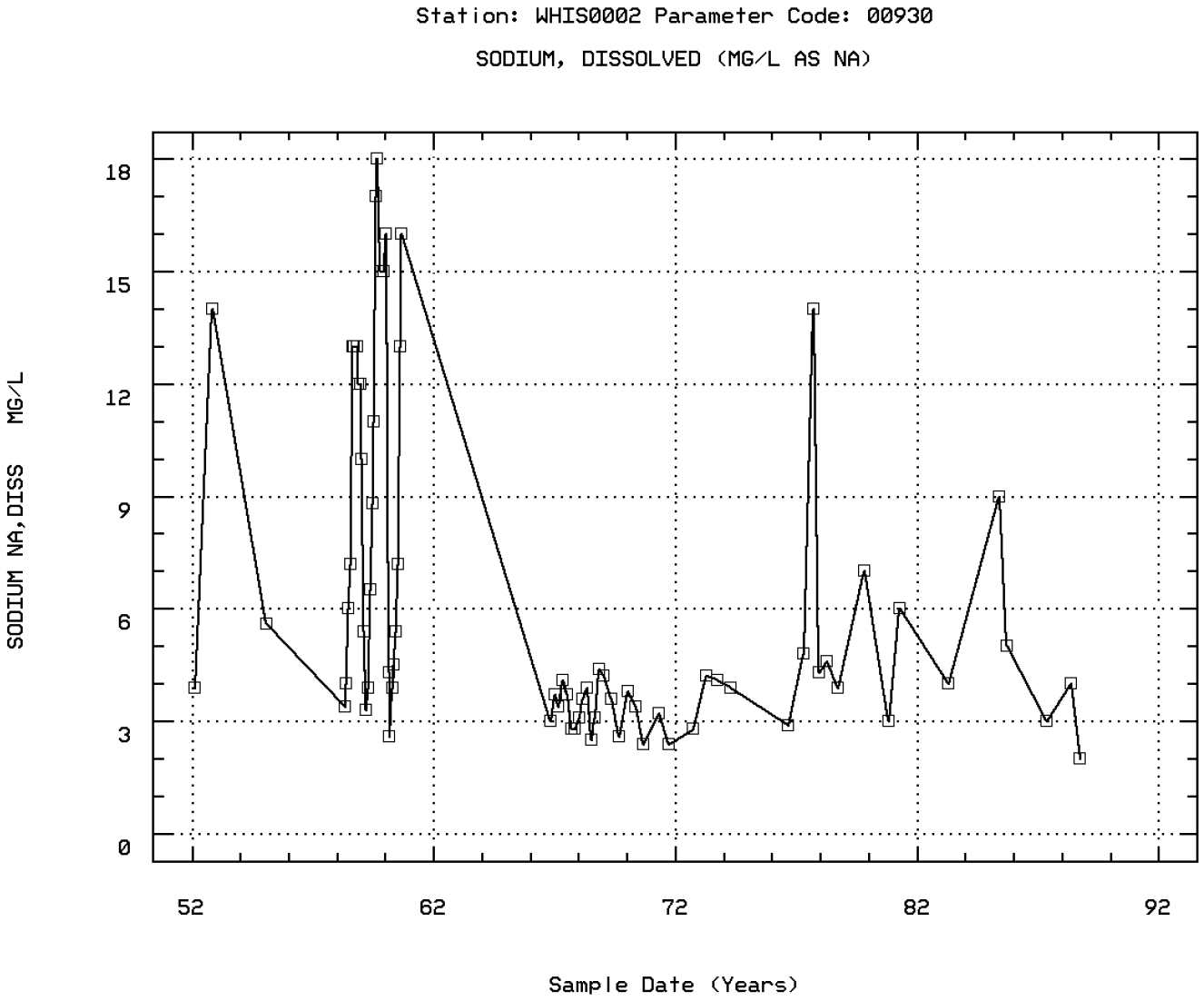
CALCIUM, DISSOLVED (MG/L AS CA)



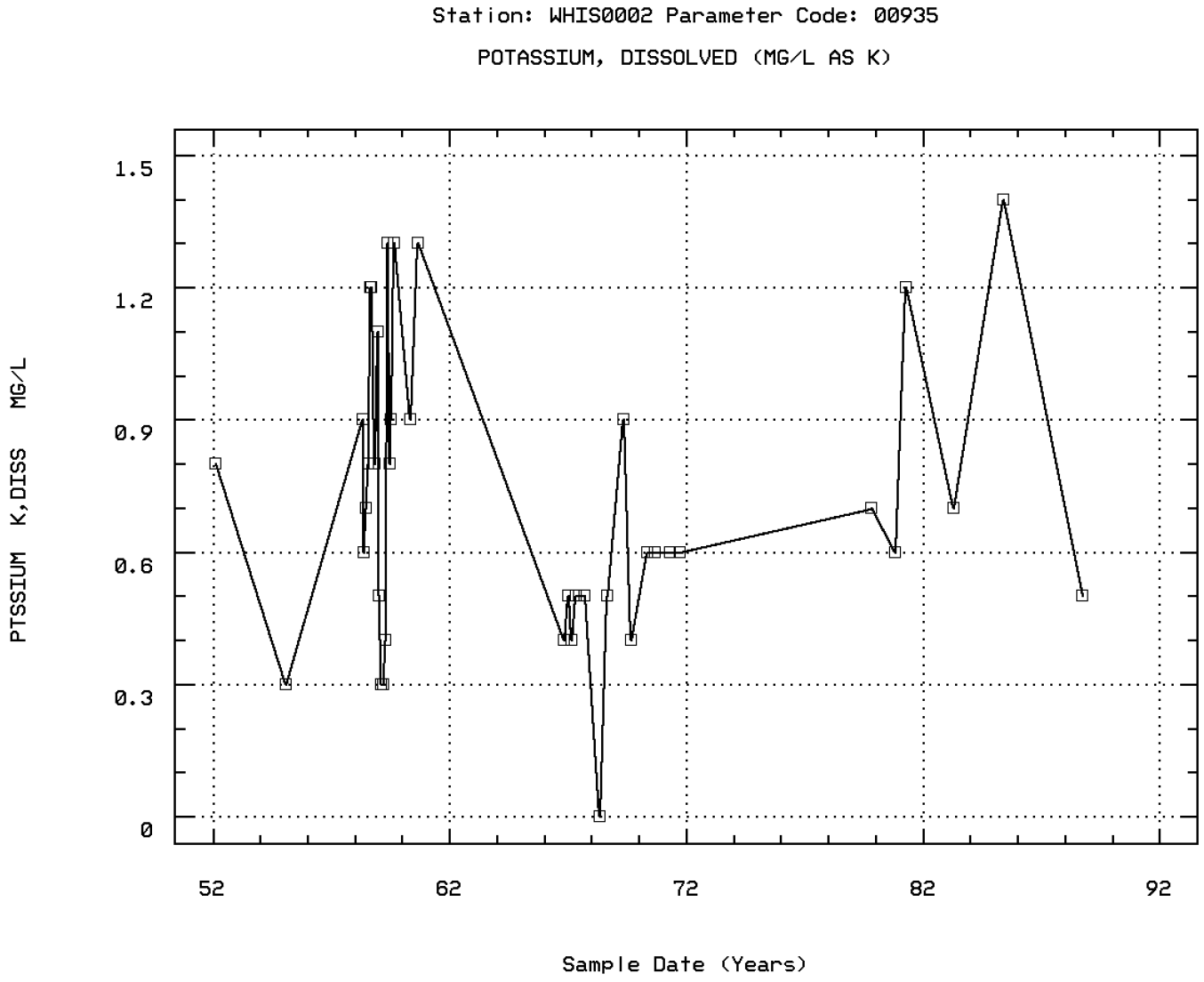
CLEAR CREEK NEAR IGO



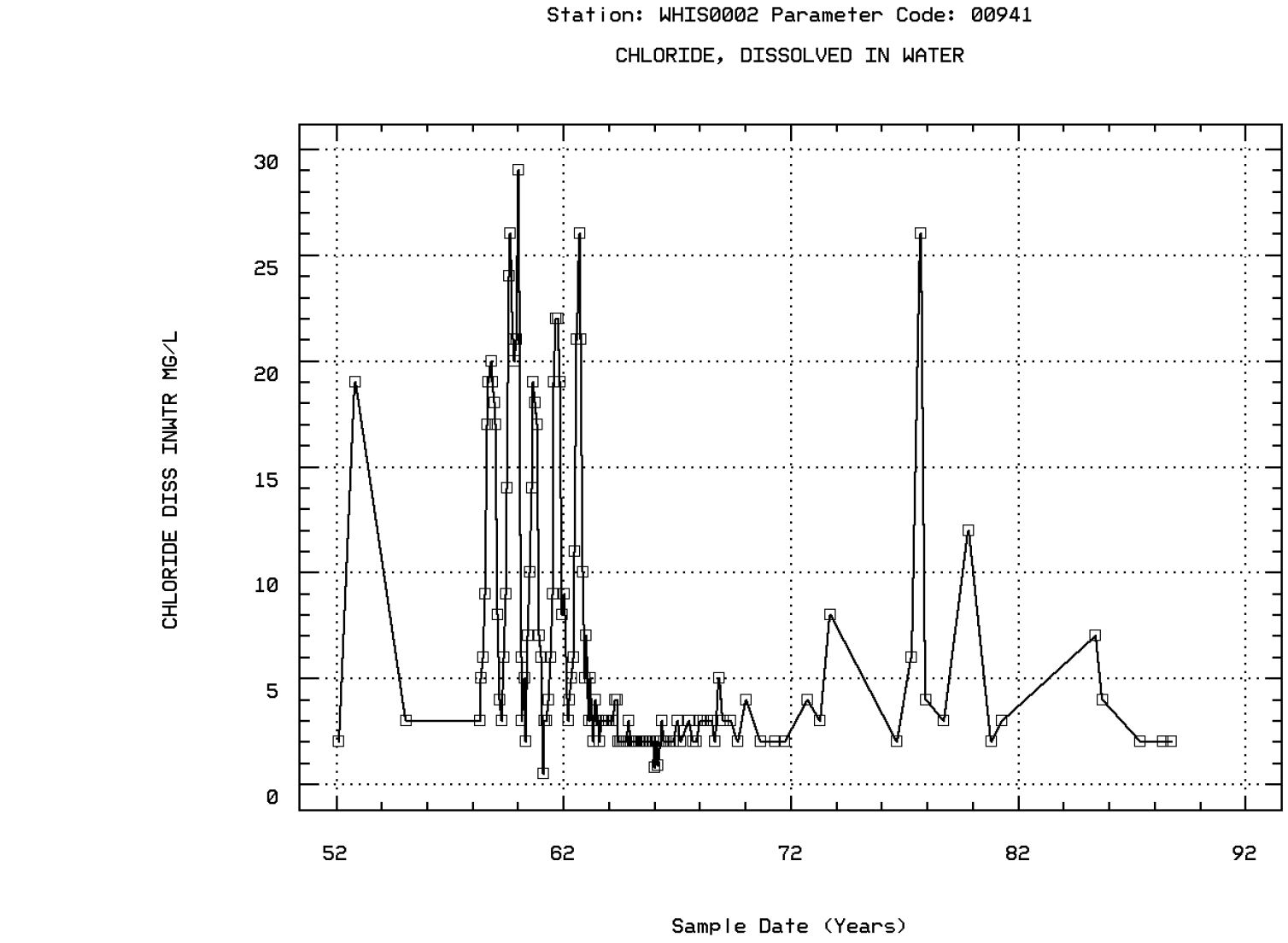
CLEAR CREEK NEAR IGO



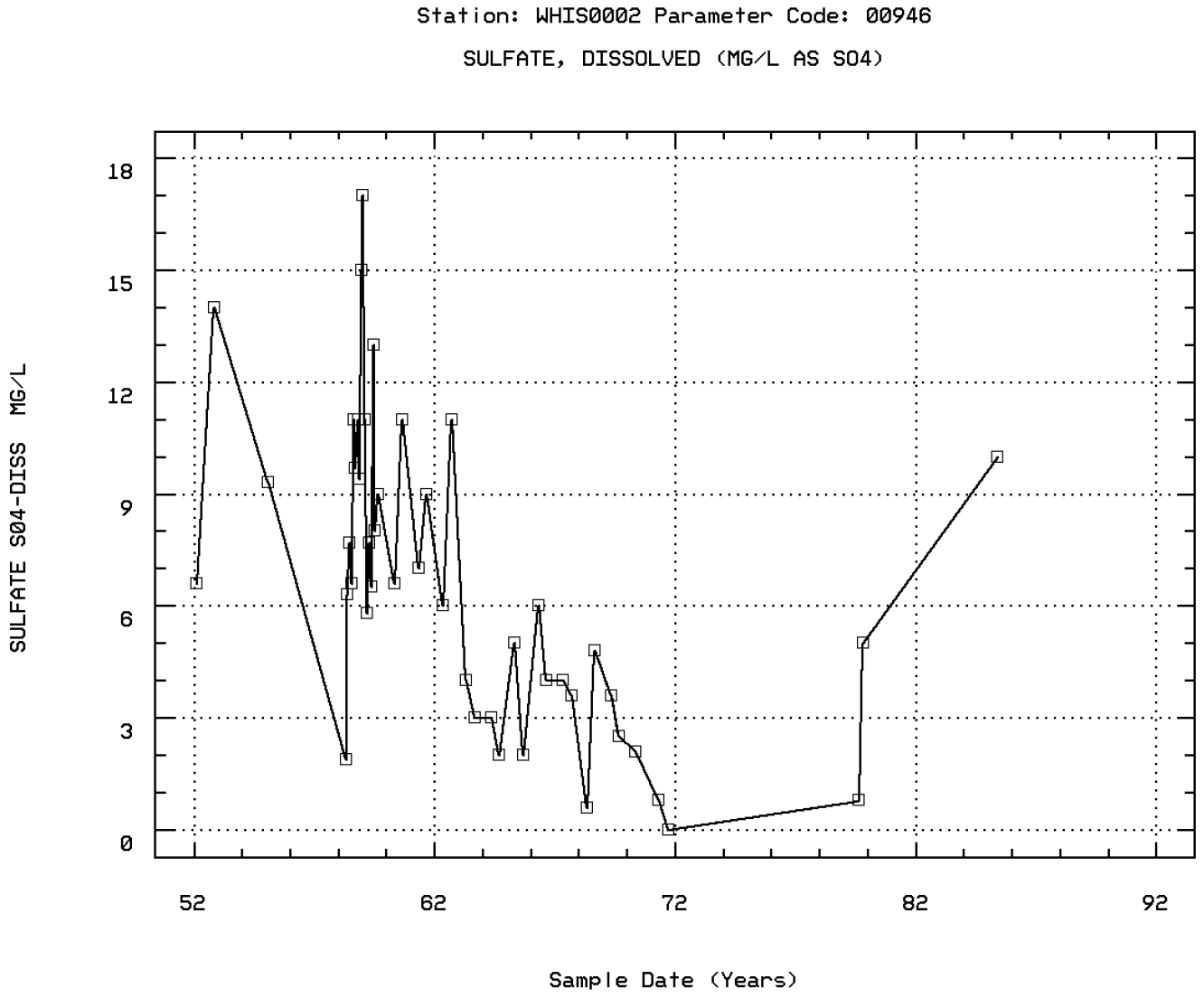
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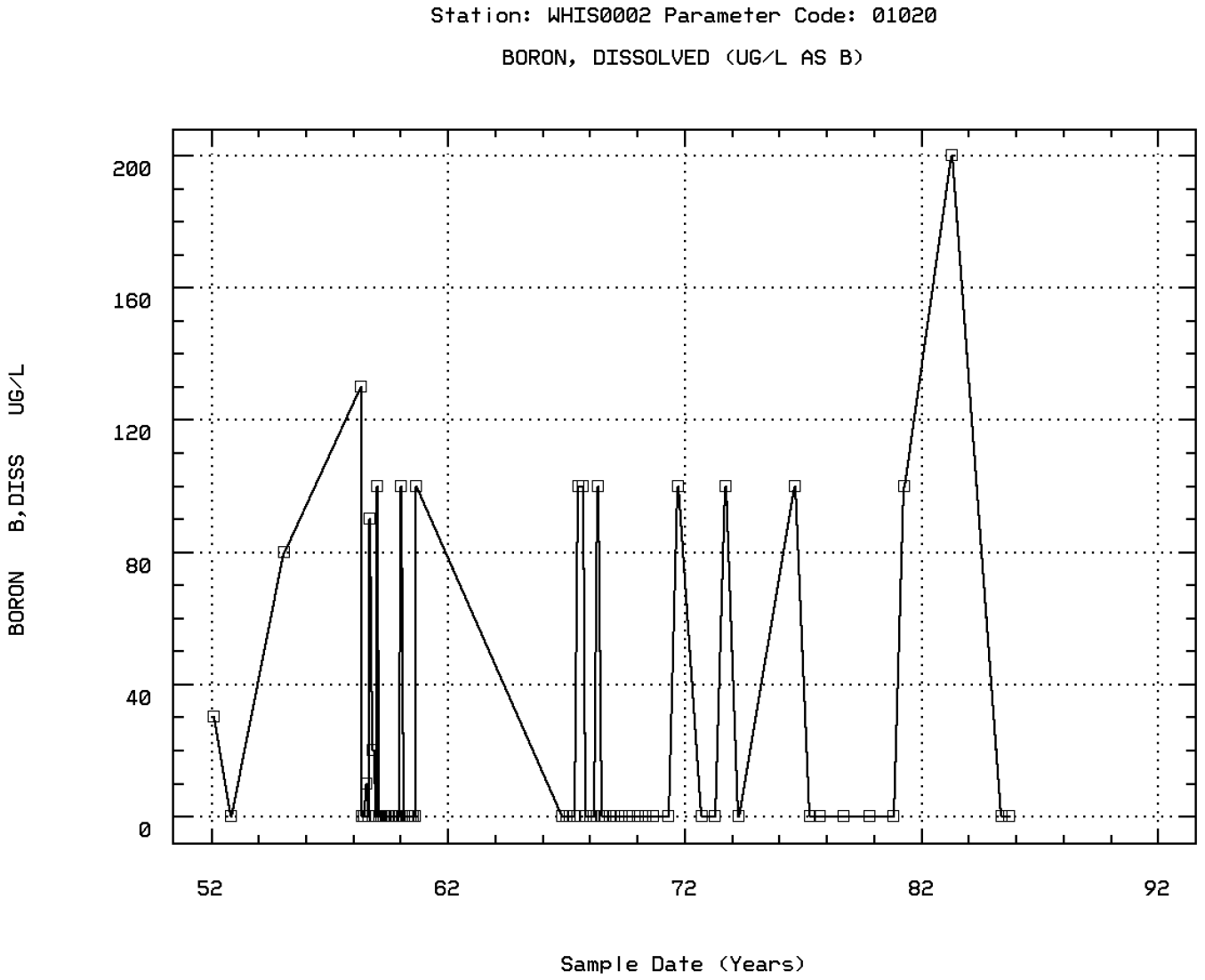
CLEAR CREEK NEAR IGO



CLEAR CREEK NEAR IGO



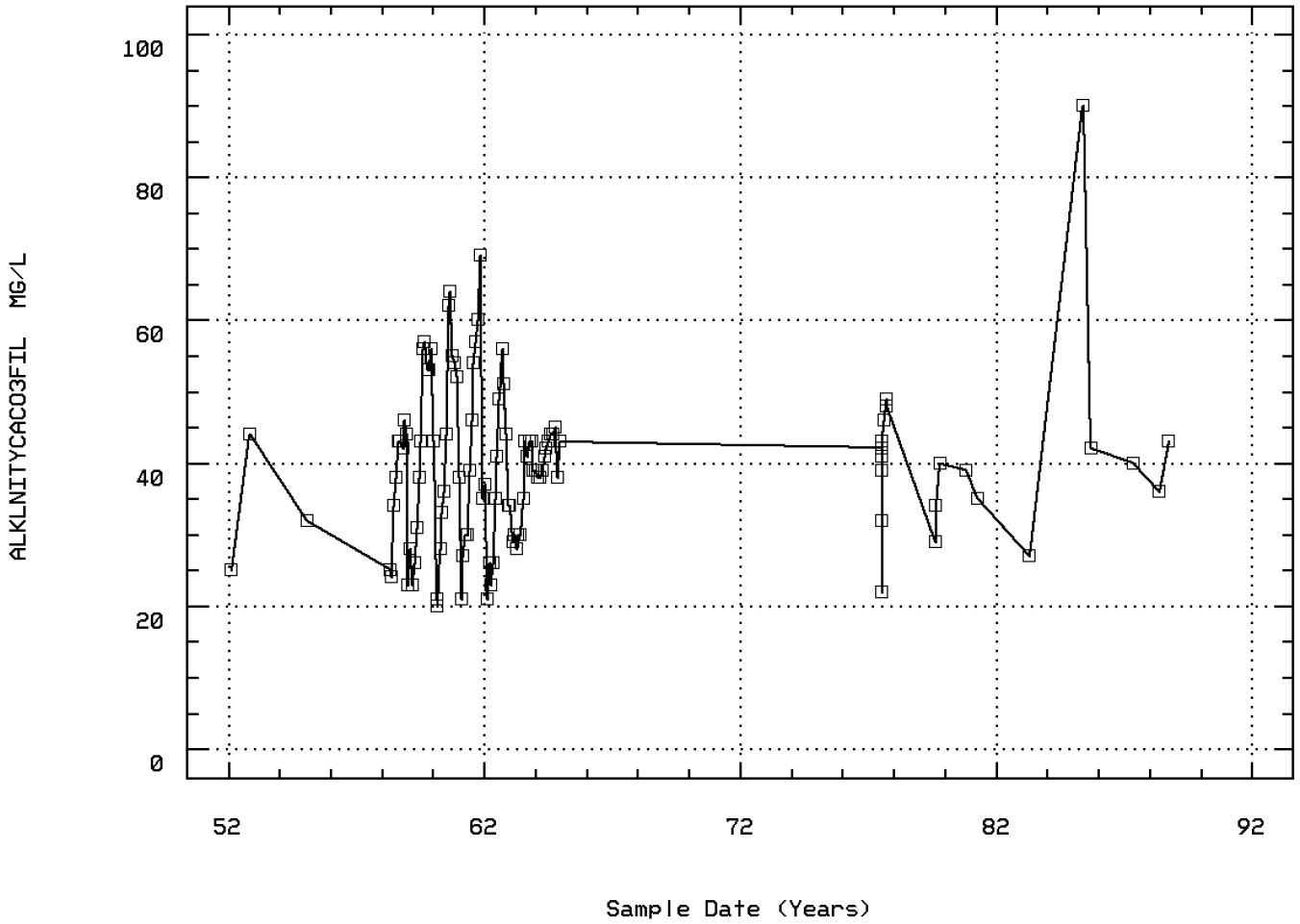
CLEAR CREEK NEAR IGO



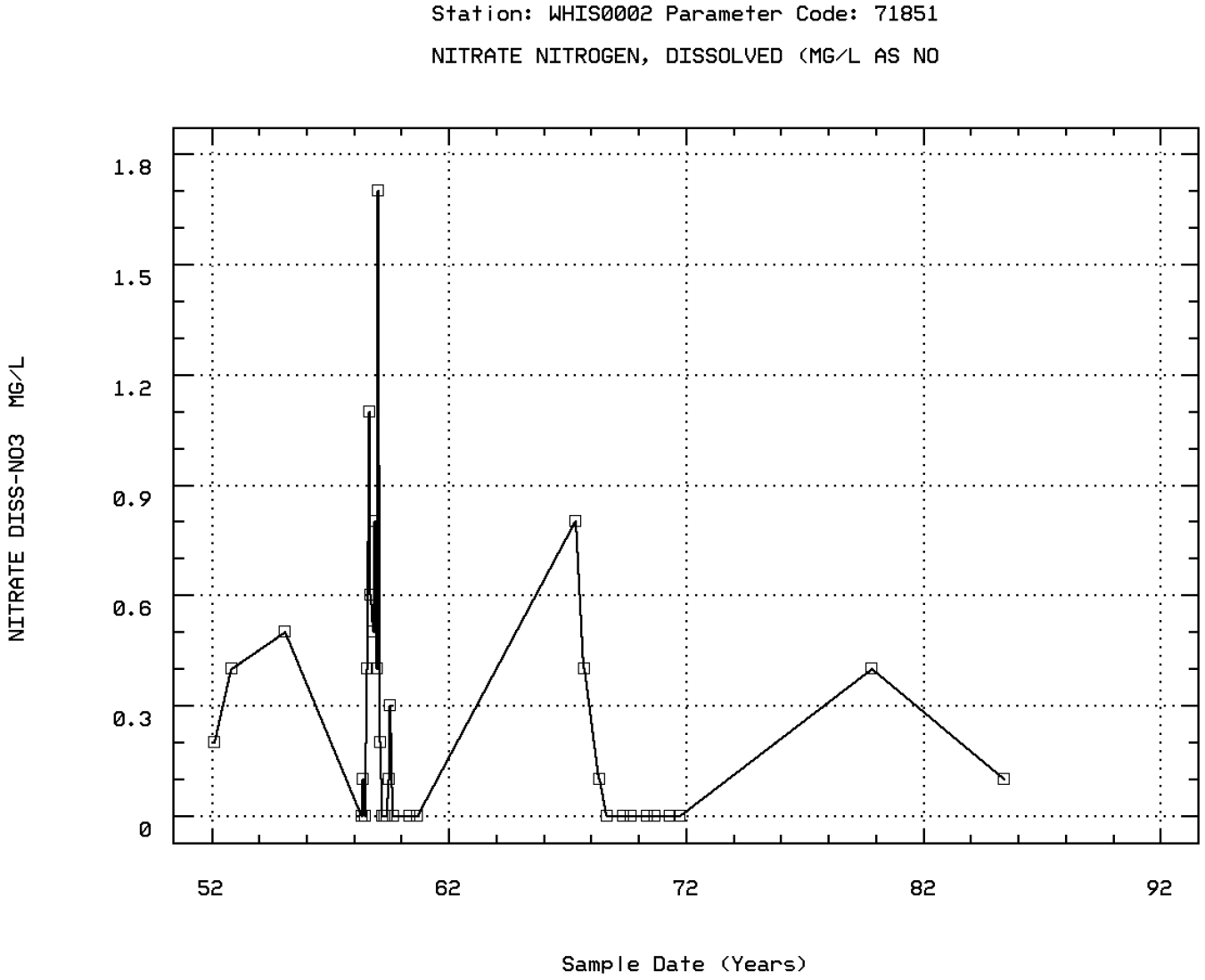
CLEAR CREEK NEAR IGO

Station: WHIS0002 Parameter Code: 39036

ALKALINITY,FILTERED SAMPLE AS CACO3 MG



CLEAR CREEK NEAR IGO



CLEAR CREEK NEAR IGO

Annual Analysis for 1952 - Station WHIS0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00065	STAGE, STREAM (FEET)	02/11/52-09/19/88	2	3.545	3.545	4.8	2.29	3.15	1.775	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	02/11/52-09/19/88	2	7.65	7.65	7.9	7.4	0.125	0.354	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	02/11/52-09/19/88	2	7.582	7.582	7.9	7.4	0.134	0.367	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/11/52-09/19/88	2	0.026	0.026	0.04	0.013	0.	0.019	**	**	**	**
00941p	CHLORIDE, DISSOLVED IN WATER MG/L	02/11/52-09/19/88	2	10.5	10.5	19.	2.	144.5	12.021	**	**	**	**
39036p	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	02/11/52-09/19/88	2	34.5	34.5	44.	25.	180.5	13.435	**	**	**	**

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

Annual Analysis for 1955 - Station WHIS0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00065	STAGE, STREAM (FEET)	02/11/52-09/19/88	1	3.34	3.34	3.34	3.34	0.	0.	**	**	**	**
00075	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	01/27/55-09/27/71	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	01/27/55-09/19/88	1	12.3	12.3	12.3	12.3	0.	0.	**	**	**	**
00400p	PH (STANDARD UNITS)	01/27/55-09/19/88	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	01/27/55-09/19/88	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/27/55-09/19/88	1	0.063	0.063	0.063	0.063	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	02/11/52-09/19/88	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	02/11/52-09/19/88	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/11/52-09/19/88	1	0.063	0.063	0.063	0.063	0.	0.	**	**	**	**
00941p	CHLORIDE, DISSOLVED IN WATER MG/L	02/11/52-09/19/88	1	3.	3.	3.	3.	0.	0.	**	**	**	**
39036p	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	02/11/52-09/19/88	1	32.	32.	32.	32.	0.	0.	**	**	**	**

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

Annual Analysis for 1958 - Station WHIS0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/28/58-09/04/86	8	14.15	16.113	26.7	7.2	41.807	6.466	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/28/58-09/19/88	7	100.	217.714	782.	57.	66200.238	257.294	**	**	**	**
00065	STAGE, STREAM (FEET)	02/11/52-09/19/88	8	2.625	2.986	4.39	2.44	0.52	0.721	**	**	**	**
00075	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	01/27/55-09/27/71	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	01/27/55-09/19/88	8	9.2	8.887	11.	6.5	2.536	1.592	**	**	**	**
00400p	PH (STANDARD UNITS)	01/27/55-09/19/88	7	7.4	7.514	8.3	7.2	0.151	0.389	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	01/27/55-09/19/88	7	7.4	7.409	8.3	7.2	0.164	0.405	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/27/55-09/19/88	7	0.04	0.039	0.063	0.005	0.	0.022	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	02/11/52-09/19/88	9	7.5	7.489	7.7	7.3	0.016	0.127	7.3	7.4	7.55	7.7
00403	CONVERTED PH, LAB, STANDARD UNITS	02/11/52-09/19/88	9	7.5	7.472	7.7	7.3	0.016	0.128	7.3	7.4	7.55	7.7
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/11/52-09/19/88	9	0.032	0.034	0.05	0.02	0.	0.01	0.02	0.028	0.041	0.05
00941p	CHLORIDE, DISSOLVED IN WATER MG/L	02/11/52-09/19/88	9	17.	12.889	20.	3.	48.861	6.99	3.	5.5	19.	20.
39036p	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	02/11/52-09/19/88	9	42.	37.667	46.	24.	68.25	8.261	24.	29.5	43.5	46.

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

Annual Analysis for 1959 - Station WHIS0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/28/58-09/04/86	11	17.2	16.209	25.	4.4	47.689	6.906	5.3	10.6	22.8	24.78
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/28/58-09/19/88	12	54.5	170.917	520.	19.	35171.72	187.541	19.3	37.75	300.	513.4
00065	STAGE, STREAM (FEET)	02/11/52-09/19/88	12	2.545	2.871	3.9	2.21	0.394	0.628	2.222	2.403	3.438	3.879
00075	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	01/27/55-09/27/71	6	3.5	5.	10.	1.	16.	4.	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	01/27/55-09/19/88	11	9.8	10.091	13.3	7.9	2.607	1.615	8.02	8.6	11.5	12.98

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

Annual Analysis for 1959 - Station WHIS0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400p	PH (STANDARD UNITS)	01/27/55-09/19/88	5	7.7	7.68	7.9	7.3	0.062	0.249	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	01/27/55-09/19/88	5	7.7	7.618	7.9	7.3	0.067	0.258	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/27/55-09/19/88	5	0.02	0.024	0.05	0.013	0.	0.015	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	02/11/52-09/19/88	12	7.6	7.633	7.9	7.1	0.053	0.231	7.19	7.525	7.8	7.9
00403	CONVERTED PH, LAB, STANDARD UNITS	02/11/52-09/19/88	12	7.6	7.569	7.9	7.1	0.058	0.241	7.19	7.525	7.8	7.9
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/11/52-09/19/88	12	0.025	0.027	0.079	0.013	0.	0.018	0.013	0.016	0.03	0.068
00941p	CHLORIDE, DISSOLVED IN WATER MG/L	02/11/52-09/19/88	12	15.5	14.417	26.	3.	66.447	8.152	3.3	6.5	21.	25.4
39036p	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	02/11/52-09/19/88	12	40.5	40.583	57.	23.	195.174	13.97	23.	26.5	55.25	56.7

** - 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 1960 - Station WHIS0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/28/58-09/04/86	12	12.25	13.95	25.6	2.2	62.372	7.898	3.55	6.975	22.375	25.42
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/28/58-09/19/88	12	108.	284.417	1970.	36.	291365.72	539.783	36.9	46.	271.75	1471.7
00065	STAGE, STREAM (FEET)	02/11/52-09/19/88	12	2.805	3.063	5.56	2.4	0.765	0.875	2.409	2.478	3.365	4.93
00075	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	01/27/55-09/27/71	11	5.	8.364	35.	1.	100.855	10.043	1.	1.	13.	31.
00300p	OXYGEN, DISSOLVED MG/L	01/27/55-09/19/88	12	10.75	10.642	13.4	8.5	2.435	1.561	8.5	9.075	11.95	13.04
00400p	PH (STANDARD UNITS)	01/27/55-09/19/88	12	7.45	7.558	8.1	6.9	0.143	0.378	7.02	7.3	7.9	8.1
00400p	CONVERTED PH (STANDARD UNITS)	01/27/55-09/19/88	12	7.447	7.418	8.1	6.9	0.164	0.405	7.02	7.3	7.9	8.1
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/27/55-09/19/88	12	0.036	0.038	0.126	0.008	0.001	0.033	0.008	0.013	0.05	0.103
00403	PH, LAB, STANDARD UNITS SU	02/11/52-09/19/88	9	7.5	7.667	8.4	7.1	0.18	0.424	7.1	7.35	8.	8.4
00403	CONVERTED PH, LAB, STANDARD UNITS	02/11/52-09/19/88	9	7.5	7.516	8.4	7.1	0.206	0.454	7.1	7.35	8.	8.4
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/11/52-09/19/88	9	0.032	0.031	0.079	0.004	0.001	0.024	0.004	0.011	0.045	0.079
00941p	CHLORIDE, DISSOLVED IN WATER MG/L	02/11/52-09/19/88	12	8.5	11.417	29.	2.	65.356	8.084	2.3	5.25	17.75	26.
39036p	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	02/11/52-09/19/88	12	43.5	42.667	64.	20.	230.424	15.18	20.3	29.25	54.75	63.4

** - 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 1961 - Station WHIS0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/28/58-09/04/86	12	13.85	14.9	28.3	6.1	56.956	7.547	6.43	8.45	21.1	27.49
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/28/58-09/19/88	11	134.	250.909	1460.	23.	174283.891	417.473	23.4	33.	247.	1246.
00065	STAGE, STREAM (FEET)	02/11/52-09/19/88	12	2.945	3.009	5.12	2.21	0.697	0.835	2.216	2.323	3.458	4.676
00075	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	01/27/55-09/27/71	12	7.5	18.667	100.	0.	753.333	27.447	0.6	4.5	26.25	79.
00300p	OXYGEN, DISSOLVED MG/L	01/27/55-09/19/88	12	10.25	10.067	11.8	8.1	1.881	1.371	8.13	8.7	11.425	11.77
00400p	PH (STANDARD UNITS)	01/27/55-09/19/88	12	7.45	7.567	8.3	7.1	0.17	0.412	7.1	7.225	8.025	8.24
00400p	CONVERTED PH (STANDARD UNITS)	01/27/55-09/19/88	12	7.447	7.424	8.3	7.1	0.192	0.438	7.1	7.225	8.025	8.24
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/27/55-09/19/88	12	0.036	0.038	0.079	0.005	0.001	0.026	0.006	0.01	0.06	0.079
00941p	CHLORIDE, DISSOLVED IN WATER MG/L	02/11/52-09/19/88	12	7.	10.125	22.	0.5	64.642	8.04	1.25	3.25	19.	22.
39036p	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	02/11/52-09/19/88	12	38.5	42.167	69.	21.	224.152	14.972	22.8	30.	56.25	66.3

** - 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 1962 - Station WHIS0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/28/58-09/04/86	12	15.55	14.75	23.9	4.4	40.315	6.349	5.24	9.025	19.125	23.9
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/28/58-09/19/88	12	108.5	476.	3620.	24.	1017980.364	1008.95	24.9	40.5	427.5	2725.4
00065	STAGE, STREAM (FEET)	02/11/52-09/19/88	12	2.77	3.182	6.21	2.19	1.314	1.146	2.193	2.34	3.69	5.598
00075	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	01/27/55-09/27/71	12	4.	20.333	140.	1.	1545.515	39.313	1.	2.	23.75	108.5

** - 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 1962 - Station WHIS0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00300p	OXYGEN, DISSOLVED MG/L	01/27/55-09/19/88	12	9.85	10.142	12.4	8.4	2.335	1.528	8.43	8.65	11.925	12.31
00400p	PH (STANDARD UNITS)	01/27/55-09/19/88	12	7.35	7.4	8.1	7.	0.116	0.341	7.	7.2	7.475	8.07
00400p	CONVERTED PH (STANDARD UNITS)	01/27/55-09/19/88	12	7.347	7.304	8.1	7.	0.126	0.355	7.	7.2	7.475	8.07
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/27/55-09/19/88	12	0.045	0.05	0.1	0.008	0.001	0.029	0.009	0.034	0.063	0.1
00941p	CHLORIDE, DISSOLVED IN WATER MG/L	02/11/52-09/19/88	12	7.5	10.167	26.	1.	66.515	8.156	1.6	4.25	18.5	24.5
39036p	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	02/11/52-09/19/88	12	36.	36.917	56.	21.	133.902	11.572	21.6	26.	47.75	54.5

** - 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 WHIS0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/28/58-09/04/86	12	12.5	12.508	17.8	6.7	13.43	3.665	7.03	9.55	15.45	17.8
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/28/58-09/19/88	12	623.	738.333	1710.	43.	433656.424	658.526	47.5	120.5	1357.5	1611.
00065	STAGE, STREAM (FEET)	02/11/52-09/19/88	12	3.755	3.842	5.16	2.48	1.138	1.067	2.576	2.813	5.003	5.118
00075	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	01/27/55-09/27/71	12	3.5	5.333	15.	1.	22.97	4.793	1.3	2.	6.	15.
00300p	OXYGEN, DISSOLVED MG/L	01/27/55-09/19/88	12	10.9	10.992	12.3	9.9	0.761	0.872	9.93	10.1	11.675	12.27
00400p	PH (STANDARD UNITS)	01/27/55-09/19/88	11	7.3	7.309	7.7	6.9	0.043	0.207	6.94	7.2	7.4	7.66
00400p	CONVERTED PH (STANDARD UNITS)	01/27/55-09/19/88	11	7.3	7.263	7.7	6.9	0.045	0.213	6.94	7.2	7.4	7.66
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/27/55-09/19/88	11	0.05	0.055	0.126	0.02	0.001	0.028	0.022	0.04	0.063	0.117
00941p	CHLORIDE, DISSOLVED IN WATER MG/L	02/11/52-09/19/88	12	3.	3.417	7.	2.	1.902	1.379	2.	3.	3.75	6.4
39036p	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	02/11/52-09/19/88	12	34.5	35.417	43.	28.	36.629	6.052	28.3	30.	42.5	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

Annual Analysis for 1964 - Station WHIS0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/28/58-09/04/86	12	11.4	11.208	16.7	7.8	6.944	2.635	7.95	8.9	12.8	15.68
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/28/58-09/19/88	11	117.	249.636	807.	53.	80234.855	283.258	53.6	66.	364.	802.8
00065	STAGE, STREAM (FEET)	02/11/52-09/19/88	12	2.76	2.998	4.36	2.43	0.489	0.7	2.433	2.453	3.388	4.351
00075	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	01/27/55-09/27/71	12	1.	1.667	4.	1.	0.97	0.985	1.	1.	2.	3.7
00300p	OXYGEN, DISSOLVED MG/L	01/27/55-09/19/88	12	11.2	11.242	12.8	10.2	0.654	0.808	10.2	10.625	11.9	12.56
00400p	PH (STANDARD UNITS)	01/27/55-09/19/88	11	7.6	7.655	8.2	7.3	0.083	0.288	7.32	7.4	7.8	8.16
00400p	CONVERTED PH (STANDARD UNITS)	01/27/55-09/19/88	11	7.6	7.579	8.2	7.3	0.089	0.298	7.32	7.4	7.8	8.16
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/27/55-09/19/88	11	0.025	0.026	0.05	0.006	0.	0.015	0.007	0.016	0.04	0.048
00941p	CHLORIDE, DISSOLVED IN WATER MG/L	02/11/52-09/19/88	12	2.	2.5	4.	1.	0.818	0.905	1.3	2.	3.	4.
39036p	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	02/11/52-09/19/88	12	41.5	41.167	45.	38.	7.061	2.657	38.	38.25	43.75	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 1965 - Station WHIS0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/28/58-09/19/88	10	87.	120.9	398.	51.	10967.656	104.727	51.1	58.	138.5	375.2
00065	STAGE, STREAM (FEET)	02/11/52-09/19/88	12	2.57	2.648	3.55	2.37	0.112	0.334	2.373	2.413	2.748	3.364
00075	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	01/27/55-09/27/71	12	10.	10.	20.	3.	29.273	5.41	3.	4.75	15.	18.5
00300p	OXYGEN, DISSOLVED MG/L	01/27/55-09/19/88	12	10.4	10.7	12.2	9.6	0.745	0.863	9.72	10.	11.525	12.14
00400p	PH (STANDARD UNITS)	01/27/55-09/19/88	12	7.6	7.55	8.	7.2	0.065	0.254	7.23	7.3	7.7	7.97
00400p	CONVERTED PH (STANDARD UNITS)	01/27/55-09/19/88	12	7.6	7.487	8.	7.2	0.069	0.262	7.23	7.3	7.7	7.97
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/27/55-09/19/88	12	0.025	0.033	0.063	0.01	0.	0.017	0.011	0.02	0.05	0.059
00941p	CHLORIDE, DISSOLVED IN WATER MG/L	02/11/52-09/19/88	12	2.	1.917	2.	1.	0.083	0.289	1.3	2.	2.	2.

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

Annual Analysis for 1966 - Station WHIS0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/28/58-09/04/86	2	15.	15.	16.1	13.9	2.42	1.556	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/28/58-09/19/88	6	112.	974.167	4380.	44.	2968739.367	1723.003	**	**	**	**
00065	STAGE, STREAM (FEET)	02/11/52-09/19/88	9	2.6	3.184	6.98	2.29	2.406	1.551	2.29	2.325	3.545	6.98
00075	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	01/27/55-09/27/71	9	1.	2.556	10.	1.	9.528	3.087	1.	1.	3.5	10.
00300p	OXYGEN, DISSOLVED MG/L	01/27/55-09/19/88	9	11.8	11.467	12.6	10.	0.805	0.897	10.	10.6	12.2	12.6
00400p	PH (STANDARD UNITS)	01/27/55-09/19/88	9	7.4	7.367	7.6	7.2	0.015	0.122	7.2	7.25	7.4	7.6
00400p	CONVERTED PH (STANDARD UNITS)	01/27/55-09/19/88	9	7.4	7.352	7.6	7.2	0.015	0.124	7.2	7.25	7.4	7.6
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/27/55-09/19/88	9	0.04	0.044	0.063	0.025	0.	0.012	0.025	0.04	0.057	0.063
00403	PH, LAB, STANDARD UNITS SU	02/11/52-09/19/88	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	02/11/52-09/19/88	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/11/52-09/19/88	1	0.013	0.013	0.013	0.013	0.	0.	**	**	**	**
00941p	CHLORIDE, DISSOLVED IN WATER MG/L	02/11/52-09/19/88	9	2.	1.856	3.	0.8	0.433	0.658	0.8	1.45	2.	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 1967 - Station WHIS0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/28/58-09/04/86	1	12.2	12.2	12.2	12.2	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/28/58-09/19/88	6	78.	88.833	142.	65.	802.967	28.337	**	**	**	**
00065	STAGE, STREAM (FEET)	02/11/52-09/19/88	6	2.615	2.648	2.87	2.51	0.016	0.127	**	**	**	**
00075	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	01/27/55-09/27/71	5	2.	2.2	5.	1.	2.7	1.643	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	01/27/55-09/19/88	6	11.25	11.383	13.	10.1	1.302	1.141	**	**	**	**
00400p	PH (STANDARD UNITS)	01/27/55-09/19/88	6	7.6	7.55	7.7	7.4	0.015	0.122	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	01/27/55-09/19/88	6	7.6	7.535	7.7	7.4	0.015	0.124	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/27/55-09/19/88	6	0.025	0.029	0.04	0.02	0.	0.008	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	02/11/52-09/19/88	6	7.6	7.683	8.1	7.5	0.058	0.24	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	02/11/52-09/19/88	6	7.589	7.636	8.1	7.5	0.06	0.246	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/11/52-09/19/88	6	0.026	0.023	0.032	0.008	0.	0.01	**	**	**	**
00941p	CHLORIDE, DISSOLVED IN WATER MG/L	02/11/52-09/19/88	6	2.	2.167	3.	1.	0.567	0.753	**	**	**	**

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Annual Analysis for 1968 - Station WHIS0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/28/58-09/19/88	6	57.	66.833	93.	53.	329.767	18.159	**	**	**	**
00065	STAGE, STREAM (FEET)	02/11/52-09/19/88	6	2.46	2.522	2.7	2.42	0.016	0.128	**	**	**	**
00075	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	01/27/55-09/27/71	5	2.	1.8	3.	1.	0.7	0.837	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	01/27/55-09/19/88	6	11.6	11.55	12.8	10.2	0.835	0.914	**	**	**	**
00400p	PH (STANDARD UNITS)	01/27/55-09/19/88	6	7.5	7.517	7.8	7.3	0.042	0.204	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	01/27/55-09/19/88	6	7.5	7.479	7.8	7.3	0.043	0.208	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/27/55-09/19/88	6	0.032	0.033	0.05	0.016	0.	0.015	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	02/11/52-09/19/88	6	7.9	7.917	8.2	7.6	0.038	0.194	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	02/11/52-09/19/88	6	7.9	7.879	8.2	7.6	0.039	0.198	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/11/52-09/19/88	6	0.013	0.013	0.025	0.006	0.	0.006	**	**	**	**
00941p	CHLORIDE, DISSOLVED IN WATER MG/L	02/11/52-09/19/88	6	3.	3.167	5.	2.	0.967	0.983	**	**	**	**

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

Annual Analysis for 1969 - Station WHIS0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/28/58-09/19/88	3	84.	90.333	134.	53.	1670.333	40.87	**	**	**	**
00065	STAGE, STREAM (FEET)	02/11/52-09/19/88	3	2.62	2.64	2.87	2.43	0.049	0.221	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	01/27/55-09/19/88	3	12.5	12.4	13.5	11.2	1.33	1.153	**	**	**	**
00400p	PH (STANDARD UNITS)	01/27/55-09/19/88	3	7.3	7.5	7.9	7.3	0.12	0.346	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	01/27/55-09/19/88	3	7.3	7.425	7.9	7.3	0.129	0.358	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/27/55-09/19/88	3	0.05	0.038	0.05	0.013	0.	0.022	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	02/11/52-09/19/88	3	7.7	7.667	7.8	7.5	0.023	0.153	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	02/11/52-09/19/88	3	7.7	7.648	7.8	7.5	0.024	0.154	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/11/52-09/19/88	3	0.02	0.022	0.032	0.016	0.	0.008	**	**	**	**
00941p	CHLORIDE, DISSOLVED IN WATER MG/L	02/11/52-09/19/88	3	3.	2.667	3.	2.	0.333	0.577	**	**	**	**

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Annual Analysis for 1970 - Station WHIS0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/28/58-09/04/86	1	13.5	13.5	13.5	13.5	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/28/58-09/19/88	3	64.	60.333	69.	48.	120.333	10.97	**	**	**	**
00065	STAGE, STREAM (FEET)	02/11/52-09/19/88	3	2.48	2.47	2.55	2.38	0.007	0.085	**	**	**	**
00075	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	01/27/55-09/27/71	3	2.	4.667	10.	2.	21.333	4.619	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	01/27/55-09/19/88	3	12.2	12.033	13.3	10.6	1.843	1.358	**	**	**	**
00400p	PH (STANDARD UNITS)	01/27/55-09/19/88	3	7.4	7.367	7.4	7.3	0.003	0.058	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	01/27/55-09/19/88	3	7.4	7.364	7.4	7.3	0.003	0.058	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/27/55-09/19/88	3	0.04	0.043	0.05	0.04	0.	0.006	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	02/11/52-09/19/88	3	7.5	7.567	7.8	7.4	0.043	0.208	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	02/11/52-09/19/88	3	7.5	7.536	7.8	7.4	0.045	0.211	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/11/52-09/19/88	3	0.032	0.029	0.04	0.016	0.	0.012	**	**	**	**
00941p	CHLORIDE, DISSOLVED IN WATER MG/L	02/11/52-09/19/88	3	2.	2.333	4.	1.	2.333	1.528	**	**	**	**

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Annual Analysis for 1971 - Station WHIS0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/28/58-09/04/86	2	12.75	12.75	13.5	12.	1.125	1.061	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/28/58-09/19/88	1	81.	81.	81.	81.	0.	0.	**	**	**	**
00065	STAGE, STREAM (FEET)	02/11/52-09/19/88	3	2.48	2.52	2.62	2.46	0.008	0.087	**	**	**	**
00075	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	01/27/55-09/27/71	2	2.5	2.5	4.	1.	4.5	2.121	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	01/27/55-09/19/88	2	11.55	11.55	11.6	11.5	0.005	0.071	**	**	**	**
00400p	PH (STANDARD UNITS)	01/27/55-09/19/88	2	7.45	7.45	7.5	7.4	0.005	0.071	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	01/27/55-09/19/88	2	7.447	7.447	7.5	7.4	0.005	0.071	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/27/55-09/19/88	2	0.036	0.036	0.04	0.032	0.	0.006	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	02/11/52-09/19/88	2	7.45	7.45	7.5	7.4	0.005	0.071	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	02/11/52-09/19/88	2	7.447	7.447	7.5	7.4	0.005	0.071	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/11/52-09/19/88	2	0.036	0.036	0.04	0.032	0.	0.006	**	**	**	**
00941p	CHLORIDE, DISSOLVED IN WATER MG/L	02/11/52-09/19/88	2	2.	2.	2.	2.	0.	0.	**	**	**	**

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Annual Analysis for 1972 - Station WHIS0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/28/58-09/04/86	2	11.5	11.5	14.	9.	12.5	3.536	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/28/58-09/19/88	2	77.	77.	106.	48.	1682.	41.012	**	**	**	**
00065	STAGE, STREAM (FEET)	02/11/52-09/19/88	2	2.575	2.575	2.77	2.38	0.076	0.276	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	01/27/55-09/19/88	2	11.05	11.05	12.	10.1	1.805	1.344	**	**	**	**
00400p	PH (STANDARD UNITS)	01/27/55-09/19/88	2	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	01/27/55-09/19/88	2	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/27/55-09/19/88	2	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	02/11/52-09/19/88	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	02/11/52-09/19/88	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/11/52-09/19/88	1	0.032	0.032	0.032	0.032	0.	0.	**	**	**	**
00941p	CHLORIDE, DISSOLVED IN WATER MG/L	02/11/52-09/19/88	1	4.	4.	4.	4.	0.	0.	**	**	**	**

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Annual Analysis for 1973 - Station WHIS0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/28/58-09/04/86	3	12.	12.333	14.	11.	2.333	1.528	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/28/58-09/19/88	3	86.	75.333	93.	47.	614.333	24.786	**	**	**	**
00065	STAGE, STREAM (FEET)	02/11/52-09/19/88	2	2.52	2.52	2.68	2.36	0.051	0.226	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	01/27/55-09/19/88	3	12.2	11.633	12.5	10.2	1.563	1.25	**	**	**	**
00400p	PH (STANDARD UNITS)	01/27/55-09/19/88	3	7.3	7.4	7.6	7.3	0.03	0.173	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	01/27/55-09/19/88	3	7.3	7.379	7.6	7.3	0.031	0.175	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/27/55-09/19/88	3	0.05	0.042	0.05	0.025	0.	0.014	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	02/11/52-09/19/88	2	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	02/11/52-09/19/88	2	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/11/52-09/19/88	2	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00941p	CHLORIDE, DISSOLVED IN WATER MG/L	02/11/52-09/19/88	2	5.5	5.5	8.	3.	12.5	3.536	**	**	**	**

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Annual Analysis for 1974 - Station WHIS0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/28/58-09/04/86	2	12.5	12.5	15.	10.	12.5	3.536	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/28/58-09/19/88	2	86.	86.	124.	48.	2888.	53.74	**	**	**	**
00065	STAGE, STREAM (FEET)	02/11/52-09/19/88	2	2.58	2.58	2.8	2.36	0.097	0.311	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	01/27/55-09/19/88	2	11.25	11.25	12.	10.5	1.125	1.061	**	**	**	**
00400p	PH (STANDARD UNITS)	01/27/55-09/19/88	2	7.45	7.45	7.6	7.3	0.045	0.212	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	01/27/55-09/19/88	2	7.425	7.425	7.6	7.3	0.046	0.215	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/27/55-09/19/88	2	0.038	0.038	0.05	0.025	0.	0.018	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	02/11/52-09/19/88	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	02/11/52-09/19/88	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/11/52-09/19/88	1	0.032	0.032	0.032	0.032	0.	0.	**	**	**	**
00941p	CHLORIDE, DISSOLVED IN WATER MG/L	02/11/52-09/19/88	1	1.	1.	1.	1.	0.	0.	**	**	**	**

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Annual Analysis for 1975 - Station WHIS0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/28/58-09/04/86	2	14.	14.	17.	11.	18.	4.243	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/28/58-09/19/88	2	71.5	71.5	98.	45.	1404.5	37.477	**	**	**	**

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Annual Analysis for 1975 - Station WHIS0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00065	STAGE, STREAM (FEET)	02/11/52-09/19/88	2	2.51	2.51	2.67	2.35	0.051	0.226	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	01/27/55-09/19/88	2	10.2	10.2	10.5	9.9	0.18	0.424	**	**	**	**
00400p	PH (STANDARD UNITS)	01/27/55-09/19/88	2	7.55	7.55	7.6	7.5	0.005	0.071	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	01/27/55-09/19/88	2	7.547	7.547	7.6	7.5	0.005	0.071	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/27/55-09/19/88	2	0.028	0.028	0.032	0.025	0.	0.005	**	**	**	**

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Annual Analysis for 1976 - Station WHIS0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/28/58-09/04/86	2	14.25	14.25	16.5	12.	10.125	3.182	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/28/58-09/19/88	2	64.	64.	76.	52.	288.	16.971	**	**	**	**
00065	STAGE, STREAM (FEET)	02/11/52-09/19/88	2	2.475	2.475	2.55	2.4	0.011	0.106	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	01/27/55-09/19/88	2	10.8	10.8	10.9	10.7	0.02	0.141	**	**	**	**
00400p	PH (STANDARD UNITS)	01/27/55-09/19/88	2	8.	8.	8.4	7.6	0.32	0.566	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	01/27/55-09/19/88	2	7.837	7.837	8.4	7.6	0.373	0.611	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/27/55-09/19/88	2	0.015	0.015	0.025	0.004	0.	0.015	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	02/11/52-09/19/88	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	02/11/52-09/19/88	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/11/52-09/19/88	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00941p	CHLORIDE, DISSOLVED IN WATER MG/L	02/11/52-09/19/88	1	2.	2.	2.	2.	0.	0.	**	**	**	**

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Annual Analysis for 1977 - Station WHIS0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/28/58-09/04/86	27	18.3	17.241	21.1	8.9	11.961	3.458	10.32	17.2	19.4	20.22
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/28/58-09/19/88	2	44.5	44.5	50.	39.	60.5	7.778	**	**	**	**
00065	STAGE, STREAM (FEET)	02/11/52-09/19/88	2	2.395	2.395	2.43	2.36	0.002	0.049	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	01/27/55-09/19/88	25	9.9	10.208	12.2	7.2	1.365	1.168	9.06	9.55	11.45	11.74
00400p	PH (STANDARD UNITS)	01/27/55-09/19/88	27	7.3	7.407	8.1	6.8	0.111	0.334	6.96	7.2	7.6	7.94
00400p	CONVERTED PH (STANDARD UNITS)	01/27/55-09/19/88	27	7.3	7.294	8.1	6.8	0.125	0.353	6.96	7.2	7.6	7.94
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/27/55-09/19/88	27	0.05	0.051	0.158	0.008	0.001	0.039	0.012	0.025	0.063	0.112
00403	PH, LAB, STANDARD UNITS SU	02/11/52-09/19/88	23	7.4	7.522	8.1	6.7	0.104	0.322	7.24	7.3	7.7	8.02
00403	CONVERTED PH, LAB, STANDARD UNITS	02/11/52-09/19/88	23	7.4	7.4	8.1	6.7	0.119	0.345	7.24	7.3	7.7	8.02
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/11/52-09/19/88	23	0.04	0.04	0.2	0.008	0.001	0.038	0.01	0.02	0.05	0.058
00941p	CHLORIDE, DISSOLVED IN WATER MG/L	02/11/52-09/19/88	3	6.	12.	26.	4.	148.	12.166	**	**	**	**
39036p	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	02/11/52-09/19/88	15	43.	41.267	49.	22.	43.495	6.595	28.	41.	43.	48.4

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Annual Analysis for 1978 - Station WHIS0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/28/58-09/04/86	21	17.2	16.229	20.	10.	9.162	3.027	10.4	13.65	18.3	19.3
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/28/58-09/19/88	3	145.	113.333	145.	50.	3008.333	54.848	**	**	**	**
00065	STAGE, STREAM (FEET)	02/11/52-09/19/88	2	2.64	2.64	2.89	2.39	0.125	0.354	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	01/27/55-09/19/88	21	9.8	9.919	11.7	8.5	0.729	0.854	8.72	9.25	10.75	10.98
00400p	PH (STANDARD UNITS)	01/27/55-09/19/88	22	7.4	7.432	8.	6.7	0.094	0.306	7.1	7.2	7.625	7.9
00400p	CONVERTED PH (STANDARD UNITS)	01/27/55-09/19/88	22	7.4	7.326	8.	6.7	0.106	0.325	7.1	7.2	7.625	7.9
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/27/55-09/19/88	22	0.04	0.047	0.2	0.01	0.002	0.04	0.013	0.024	0.063	0.079

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

Annual Analysis for 1978 - Station WHIS0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403	PH, LAB, STANDARD UNITS SU	02/11/52-09/19/88	2	7.55	7.55	7.6	7.5	0.005	0.071	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	02/11/52-09/19/88	2	7.547	7.547	7.6	7.5	0.005	0.071	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/11/52-09/19/88	2	0.028	0.028	0.032	0.025	0.	0.005	**	**	**	**
00941p	CHLORIDE, DISSOLVED IN WATER MG/L	02/11/52-09/19/88	2	2.	2.	3.	1.	2.	1.414	**	**	**	**

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

Annual Analysis for 1979 - Station WHIS0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/28/58-09/04/86	20	10.6	12.055	19.5	5.	17.636	4.2	7.26	8.2	16.375	17.95
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/28/58-09/19/88	1	61.	61.	61.	61.	0.	0.	**	**	**	**
00065	STAGE, STREAM (FEET)	02/11/52-09/19/88	1	2.48	2.48	2.48	2.48	0.	0.	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	01/27/55-09/19/88	20	10.9	10.87	12.8	9.2	1.466	1.211	9.21	9.8	12.	12.59
00400p	PH (STANDARD UNITS)	01/27/55-09/19/88	20	7.3	7.495	8.1	7.2	0.092	0.303	7.21	7.3	7.775	8.09
00400p	CONVERTED PH (STANDARD UNITS)	01/27/55-09/19/88	20	7.3	7.417	8.1	7.2	0.099	0.314	7.21	7.3	7.775	8.09
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/27/55-09/19/88	20	0.05	0.038	0.063	0.008	0.	0.019	0.008	0.017	0.05	0.062
00403	PH, LAB, STANDARD UNITS SU	02/11/52-09/19/88	8	7.6	7.588	7.7	7.4	0.01	0.099	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	02/11/52-09/19/88	8	7.6	7.577	7.7	7.4	0.01	0.1	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/11/52-09/19/88	8	0.025	0.026	0.04	0.02	0.	0.007	**	**	**	**
00941p	CHLORIDE, DISSOLVED IN WATER MG/L	02/11/52-09/19/88	1	12.	12.	12.	12.	0.	0.	**	**	**	**
39036p	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	02/11/52-09/19/88	3	34.	34.333	40.	29.	30.333	5.508	**	**	**	**

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Annual Analysis for 1980 - Station WHIS0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/28/58-09/04/86	2	13.75	13.75	14.	13.5	0.125	0.354	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/28/58-09/19/88	2	64.5	64.5	80.	49.	480.5	21.92	**	**	**	**
00065	STAGE, STREAM (FEET)	02/11/52-09/19/88	2	2.495	2.495	2.61	2.38	0.026	0.163	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	01/27/55-09/19/88	2	11.3	11.3	11.7	10.9	0.32	0.566	**	**	**	**
00400p	PH (STANDARD UNITS)	01/27/55-09/19/88	2	7.8	7.8	7.9	7.7	0.02	0.141	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	01/27/55-09/19/88	2	7.789	7.789	7.9	7.7	0.02	0.142	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/27/55-09/19/88	2	0.016	0.016	0.02	0.013	0.	0.005	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	02/11/52-09/19/88	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	02/11/52-09/19/88	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/11/52-09/19/88	1	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00941p	CHLORIDE, DISSOLVED IN WATER MG/L	02/11/52-09/19/88	1	2.	2.	2.	2.	0.	0.	**	**	**	**
39036p	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	02/11/52-09/19/88	1	39.	39.	39.	39.	0.	0.	**	**	**	**

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Annual Analysis for 1981 - Station WHIS0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/28/58-09/04/86	2	14.4	14.4	18.3	10.5	30.42	5.515	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/28/58-09/19/88	2	77.	77.	105.	49.	1568.	39.598	**	**	**	**
00065	STAGE, STREAM (FEET)	02/11/52-09/19/88	2	2.505	2.505	2.55	2.46	0.004	0.064	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	01/27/55-09/19/88	2	11.	11.	11.2	10.8	0.08	0.283	**	**	**	**
00400p	PH (STANDARD UNITS)	01/27/55-09/19/88	2	7.55	7.55	7.8	7.3	0.125	0.354	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	01/27/55-09/19/88	2	7.482	7.482	7.8	7.3	0.134	0.367	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/27/55-09/19/88	2	0.033	0.033	0.05	0.016	0.001	0.024	**	**	**	**

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Annual Analysis for 1981 - Station WHIS0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403	PH, LAB, STANDARD UNITS SU	02/11/52-09/19/88	1	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	02/11/52-09/19/88	1	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/11/52-09/19/88	1	0.079	0.079	0.079	0.079	0.	0.	**	**	**	**
00941p	CHLORIDE, DISSOLVED IN WATER MG/L	02/11/52-09/19/88	1	3.	3.	3.	3.	0.	0.	**	**	**	**
39036p	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	02/11/52-09/19/88	1	35.	35.	35.	35.	0.	0.	**	**	**	**

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Annual Analysis for 1982 - Station WHIS0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/28/58-09/04/86	2	14.75	14.75	15.5	14.	1.125	1.061	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/28/58-09/19/88	2	105.	105.	158.	52.	5618.	74.953	**	**	**	**
00065	STAGE, STREAM (FEET)	02/11/52-09/19/88	2	2.675	2.675	2.97	2.38	0.174	0.417	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	01/27/55-09/19/88	2	9.9	9.9	10.	9.8	0.02	0.141	**	**	**	**
00400p	PH (STANDARD UNITS)	01/27/55-09/19/88	2	7.45	7.45	7.5	7.4	0.005	0.071	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	01/27/55-09/19/88	2	7.447	7.447	7.5	7.4	0.005	0.071	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/27/55-09/19/88	2	0.036	0.036	0.04	0.032	0.	0.006	**	**	**	**

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Annual Analysis for 1983 - Station WHIS0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/28/58-09/04/86	2	14.5	14.5	18.5	10.5	32.	5.657	**	**	**	**
00065	STAGE, STREAM (FEET)	02/11/52-09/19/88	2	2.9	2.9	3.18	2.62	0.157	0.396	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	01/27/55-09/19/88	2	10.8	10.8	11.7	9.9	1.62	1.273	**	**	**	**
00400p	PH (STANDARD UNITS)	01/27/55-09/19/88	2	7.35	7.35	7.4	7.3	0.005	0.071	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	01/27/55-09/19/88	2	7.347	7.347	7.4	7.3	0.005	0.071	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/27/55-09/19/88	2	0.045	0.045	0.05	0.04	0.	0.007	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	02/11/52-09/19/88	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	02/11/52-09/19/88	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/11/52-09/19/88	1	0.016	0.016	0.016	0.016	0.	0.	**	**	**	**
00941p	CHLORIDE, DISSOLVED IN WATER MG/L	02/11/52-09/19/88	1	1.	1.	1.	1.	0.	0.	**	**	**	**
39036p	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	02/11/52-09/19/88	1	27.	27.	27.	27.	0.	0.	**	**	**	**

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Annual Analysis for 1984 - Station WHIS0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/28/58-09/04/86	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/28/58-09/19/88	1	81.	81.	81.	81.	0.	0.	**	**	**	**
00065	STAGE, STREAM (FEET)	02/11/52-09/19/88	1	2.82	2.82	2.82	2.82	0.	0.	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	01/27/55-09/19/88	1	12.9	12.9	12.9	12.9	0.	0.	**	**	**	**
00400p	PH (STANDARD UNITS)	01/27/55-09/19/88	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	01/27/55-09/19/88	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/27/55-09/19/88	1	0.032	0.032	0.032	0.032	0.	0.	**	**	**	**

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Annual Analysis for 1985 - Station WHIS0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/28/58-09/04/86	2	15.	15.	16.	14.	2.	1.414	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/28/58-09/19/88	2	52.	52.	54.	50.	8.	2.828	**	**	**	**
00065	STAGE, STREAM (FEET)	02/11/52-09/19/88	2	2.695	2.695	2.77	2.62	0.011	0.106	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	01/27/55-09/19/88	2	10.05	10.05	10.5	9.6	0.405	0.636	**	**	**	**
00400p	PH (STANDARD UNITS)	01/27/55-09/19/88	2	7.45	7.45	7.5	7.4	0.005	0.071	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	01/27/55-09/19/88	2	7.447	7.447	7.5	7.4	0.005	0.071	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/27/55-09/19/88	2	0.036	0.036	0.04	0.032	0.	0.006	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	02/11/52-09/19/88	2	7.45	7.45	8.2	6.7	1.125	1.061	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	02/11/52-09/19/88	2	6.988	6.988	8.2	6.7	1.553	1.246	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/11/52-09/19/88	2	0.103	0.103	0.2	0.006	0.019	0.137	**	**	**	**
00941p	CHLORIDE, DISSOLVED IN WATER MG/L	02/11/52-09/19/88	2	5.5	5.5	7.	4.	4.5	2.121	**	**	**	**
39036p	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	02/11/52-09/19/88	2	66.	66.	90.	42.	1152.	33.941	**	**	**	**

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Annual Analysis for 1986 - Station WHIS0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/28/58-09/04/86	2	15.25	15.25	17.	13.5	6.125	2.475	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/28/58-09/19/88	2	62.	62.	75.	49.	338.	18.385	**	**	**	**
00065	STAGE, STREAM (FEET)	02/11/52-09/19/88	2	2.665	2.665	2.73	2.6	0.008	0.092	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	01/27/55-09/19/88	2	10.2	10.2	10.9	9.5	0.98	0.99	**	**	**	**
00400p	PH (STANDARD UNITS)	01/27/55-09/19/88	2	7.6	7.6	7.7	7.5	0.02	0.141	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	01/27/55-09/19/88	2	7.589	7.589	7.7	7.5	0.02	0.142	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/27/55-09/19/88	2	0.026	0.026	0.032	0.02	0.	0.008	**	**	**	**

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Annual Analysis for 1987 - Station WHIS0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/28/58-09/19/88	2	52.	52.	58.	46.	72.	8.485	**	**	**	**
00065	STAGE, STREAM (FEET)	02/11/52-09/19/88	1	2.65	2.65	2.65	2.65	0.	0.	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	01/27/55-09/19/88	1	10.8	10.8	10.8	10.8	0.	0.	**	**	**	**
00400p	PH (STANDARD UNITS)	01/27/55-09/19/88	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	01/27/55-09/19/88	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/27/55-09/19/88	1	0.016	0.016	0.016	0.016	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	02/11/52-09/19/88	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	02/11/52-09/19/88	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/11/52-09/19/88	1	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
00941p	CHLORIDE, DISSOLVED IN WATER MG/L	02/11/52-09/19/88	1	2.	2.	2.	2.	0.	0.	**	**	**	**
39036p	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	02/11/52-09/19/88	1	40.	40.	40.	40.	0.	0.	**	**	**	**

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Annual Analysis for 1988 - Station WHIS0002

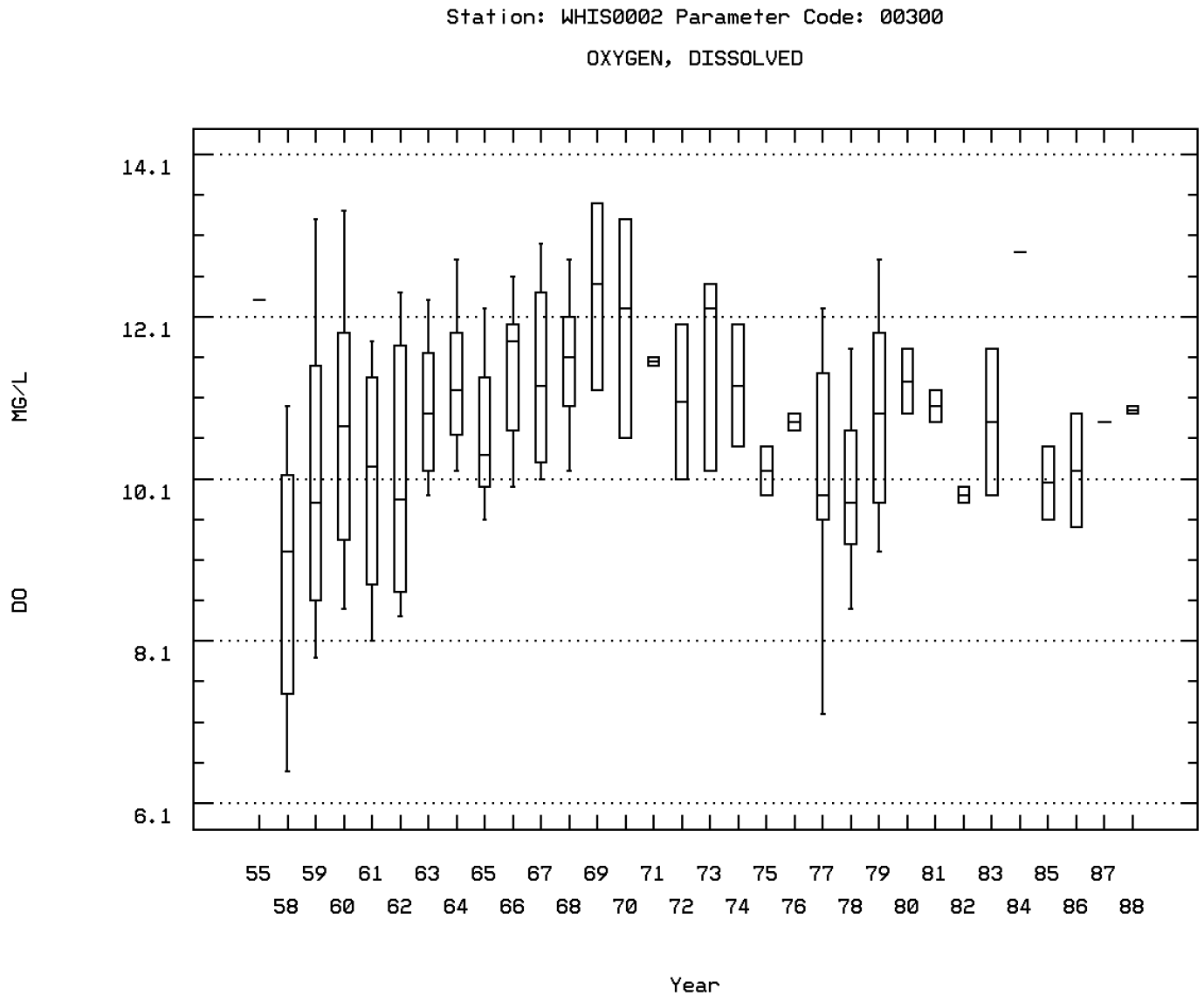
Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/28/58-09/19/88	2	70.5	70.5	87.	54.	544.5	23.335	**	**	**	**
00065	STAGE, STREAM (FEET)	02/11/52-09/19/88	2	2.75	2.75	2.88	2.62	0.034	0.184	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	01/27/55-09/19/88	2	10.95	10.95	11.	10.9	0.005	0.071	**	**	**	**
00400p	PH (STANDARD UNITS)	01/27/55-09/19/88	2	7.65	7.65	7.7	7.6	0.005	0.071	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	01/27/55-09/19/88	2	7.647	7.647	7.7	7.6	0.005	0.071	**	**	**	**

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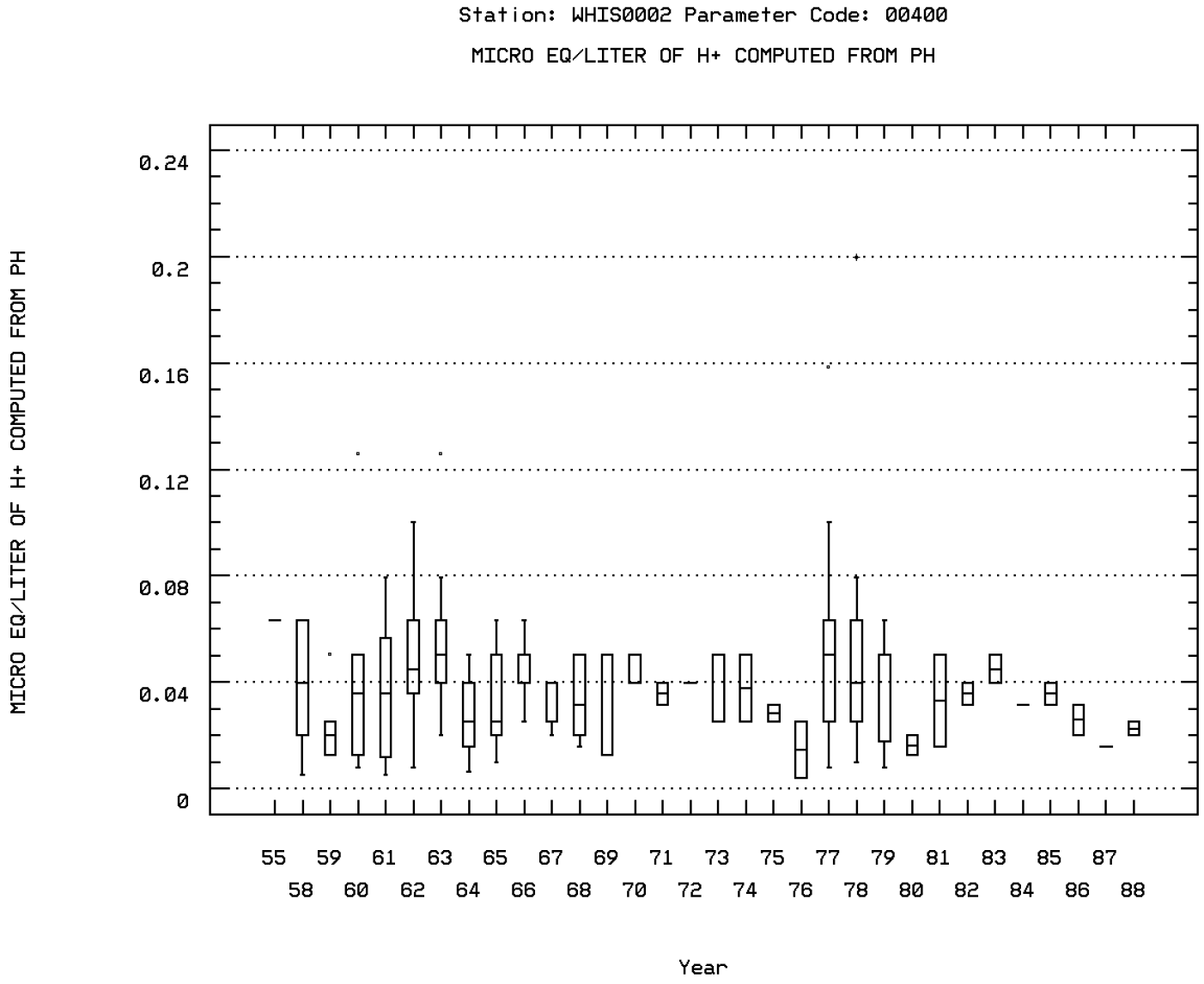
Annual Analysis for 1988 - Station WHIS0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/27/55-09/19/88	2	0.023	0.023	0.025	0.02	0.	0.004	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	02/11/52-09/19/88	2	8.3	8.3	8.6	8.	0.18	0.424	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	02/11/52-09/19/88	2	8.204	8.204	8.6	8.	0.199	0.446	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/11/52-09/19/88	2	0.006	0.006	0.01	0.003	0.	0.005	**	**	**	**
00941p	CHLORIDE, DISSOLVED IN WATER MG/L	02/11/52-09/19/88	2	2.	2.	2.	2.	0.	0.	**	**	**	**
39036p	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	02/11/52-09/19/88	2	39.5	39.5	43.	36.	24.5	4.95	**	**	**	**

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



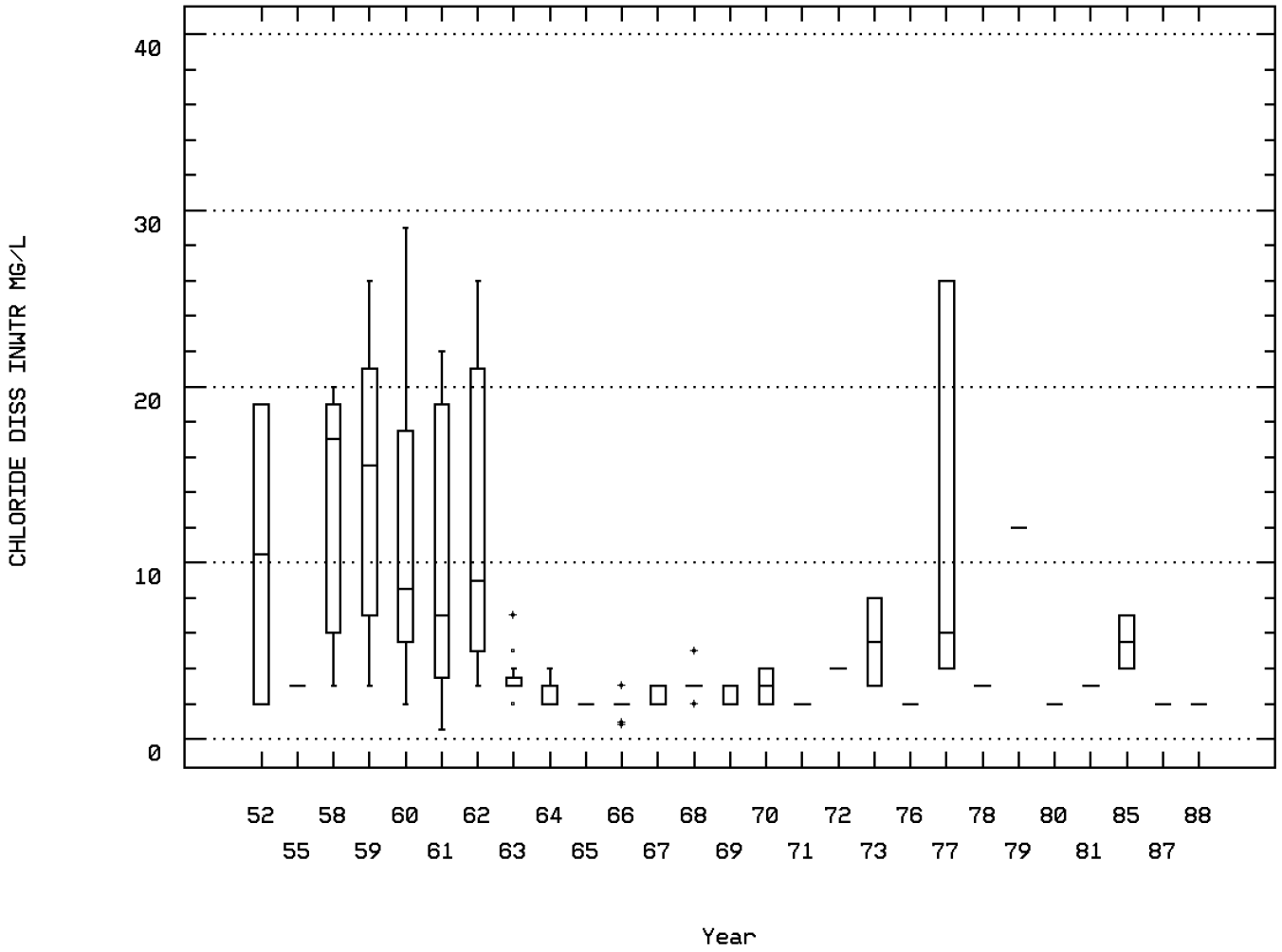
CLEAR CREEK NEAR IGO



CLEAR CREEK NEAR IGO

Station: WHIS0002 Parameter Code: 00941

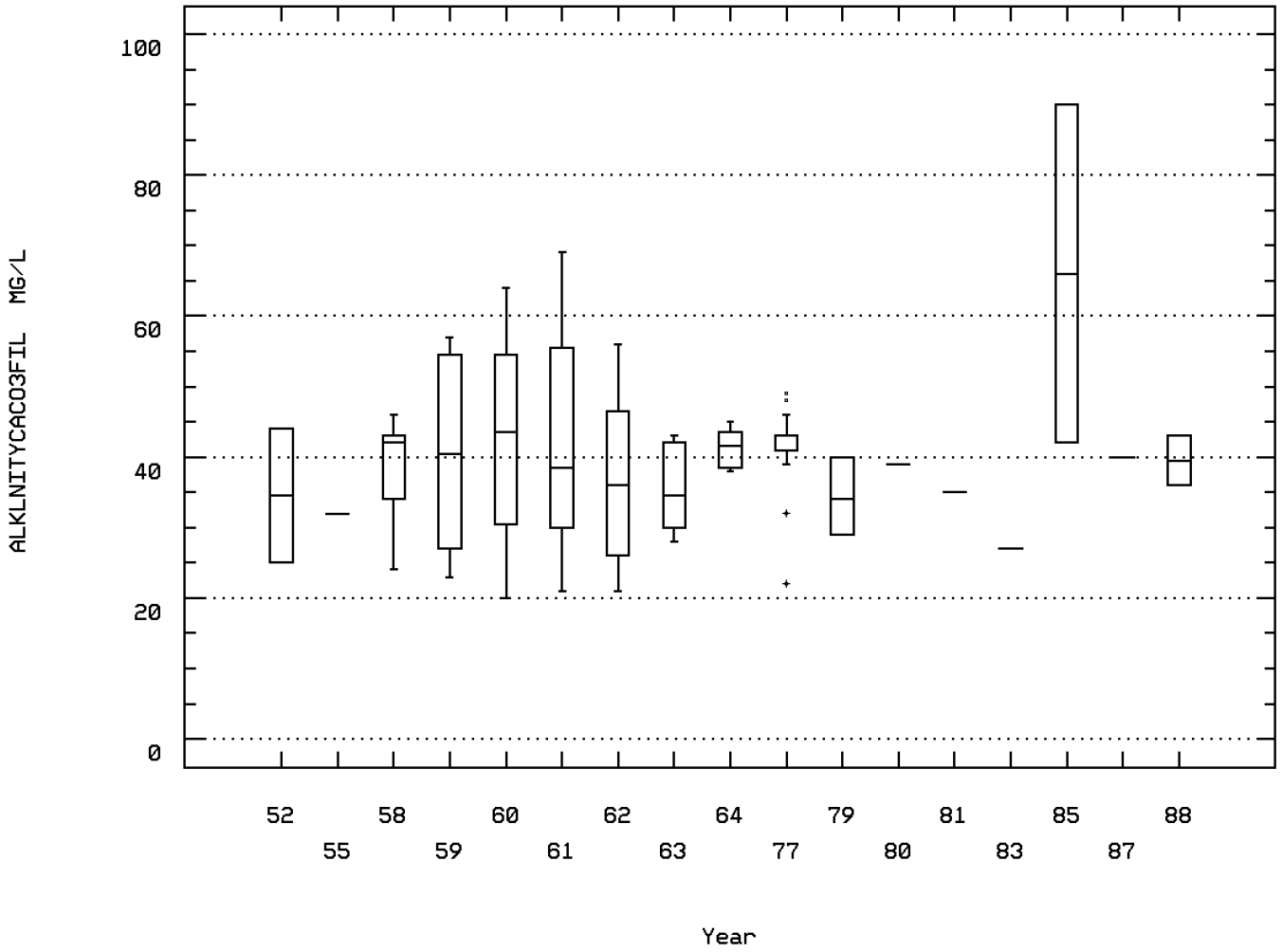
CHLORIDE, DISSOLVED IN WATER



CLEAR CREEK NEAR IGO

Station: WHIS0002 Parameter Code: 39036

ALKALINITY,FILTERED SAMPLE AS CACO3 MG



CLEAR CREEK NEAR IGO

Seasonal Analysis for Season #1: 6/01 to 11/09 - Station WHIS0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/28/58-09/04/86	100	17.8	17.773	28.3	8.3	13.506	3.675	12.8	15.525	19.4	22.8
00011p	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/27/55-09/19/88	19	58.	57.632	71.	47.	29.801	5.459	50.	54.	61.	63.
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/28/58-09/19/88	67	52.	117.463	1380.	19.	73664.283	271.412	31.8	45.	67.	124.4
00065	STAGE, STREAM (FEET)	02/11/52-09/19/88	73	2.44	2.581	5.16	2.19	0.297	0.545	2.29	2.375	2.62	2.812
00075p	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	01/27/55-09/27/71	48	3.	7.271	100.	1.	225.989	15.033	1.	1.	8.	13.7
00076p	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	04/14/72-09/19/88	59	1.	1.305	4.	0.	0.698	0.836	1.	1.	2.	2.
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/14/72-09/19/88	61	97.	97.803	178.	74.	464.461	21.551	76.	80.5	105.5	116.8
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/11/52-09/19/88	34	103.	128.088	215.	84.	1848.75	42.997	88.5	94.	174.75	195.
00300p	OXYGEN, DISSOLVED MG/L	01/27/55-09/19/88	119	10.	9.926	12.5	6.5	1.216	1.103	8.5	9.2	10.7	11.4
00400p	PH (STANDARD UNITS)	01/27/55-09/19/88	114	7.55	7.569	8.4	6.8	0.102	0.319	7.2	7.3	7.8	8.05
00400p	CONVERTED PH (STANDARD UNITS)	01/27/55-09/19/88	114	7.547	7.459	8.4	6.8	0.114	0.338	7.2	7.3	7.8	8.05
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/27/55-09/19/88	114	0.028	0.035	0.158	0.004	0.001	0.027	0.009	0.016	0.05	0.063
00403p	PH, LAB, STANDARD UNITS SU	02/11/52-09/19/88	54	7.6	7.626	8.6	6.7	0.11	0.332	7.3	7.4	7.825	8.15
00403p	CONVERTED PH, LAB, STANDARD UNITS	02/11/52-09/19/88	54	7.6	7.511	8.6	6.7	0.124	0.352	7.3	7.4	7.825	8.15
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/11/52-09/19/88	54	0.025	0.031	0.2	0.003	0.001	0.028	0.007	0.015	0.04	0.05
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	01/15/65-09/20/78	24	41.	40.542	44.	34.	6.172	2.484	37.5	39.	42.75	43.5
00671p	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/21/58-09/14/77	10	0.	0.004	0.03	0.	0.	0.01	0.	0.	0.003	0.028
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	02/11/52-09/19/88	35	44.	46.829	65.	35.	75.676	8.699	38.	40.	53.	63.4
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	02/11/52-09/19/88	20	8.9	9.775	19.	4.3	22.936	4.789	5.03	5.45	14.75	17.7
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	02/11/52-09/19/88	20	6.	5.215	7.3	2.1	3.01	1.735	2.64	3.65	6.8	7.2
00930p	SODIUM, DISSOLVED (MG/L AS NA)	02/11/52-09/19/88	34	5.2	7.412	18.	2.	26.929	5.189	2.45	2.875	13.	15.5
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	02/11/52-09/19/88	19	0.7	0.779	1.3	0.4	0.088	0.297	0.4	0.5	1.	1.3
00941p	CHLORIDE, DISSOLVED IN WATER MG/L	02/11/52-09/19/88	68	4.	8.75	26.	2.	64.966	8.06	2.	2.	17.	21.1
00946p	SULFATE, DISSOLVED (MG/L AS SO4)	02/11/52-05/23/85	24	5.8	6.271	14.	0.	18.727	4.327	0.8	2.125	10.675	12.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	02/11/52-09/05/60	10	0.	0.05	0.2	0.	0.005	0.071	0.	0.	0.1	0.19
01000	ARSENIC, DISSOLVED (UG/L AS AS)	01/27/55-05/24/71	7	0.	2.857	10.	0.	23.81	4.88	**	**	**	**
01020p	BORON, DISSOLVED (UG/L AS B)	02/11/52-09/24/85	33	0.	21.818	100.	0.	1652.841	40.655	0.	0.	15.	100.
39036p	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	02/11/52-09/19/88	61	43.	44.361	69.	22.	74.134	8.61	34.2	40.5	48.5	56.8
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/14/62-09/19/88	11	58.	63.182	120.	53.	363.964	19.078	53.2	54.	62.	108.4
71851p	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	02/11/52-05/23/85	16	0.2	0.263	1.1	0.	0.097	0.312	0.	0.	0.4	0.75

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

Seasonal Analysis for Season #2: 11/10 to 2/20 - Station WHIS0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/28/58-09/04/86	27	8.9	8.074	12.2	2.2	5.121	2.263	4.4	6.7	9.4	10.54
00011p	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/27/55-09/19/88	11	43.	43.273	48.	38.	10.818	3.289	38.2	40.	46.	47.8
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/28/58-09/19/88	30	150.5	590.033	4380.	41.	1034670.999	1017.188	58.2	96.75	791.25	1449.
00065	STAGE, STREAM (FEET)	02/11/52-09/19/88	32	2.965	3.499	6.98	2.41	1.314	1.146	2.562	2.68	4.315	5.087
00075p	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	01/27/55-09/27/71	26	4.5	12.923	140.	2.	733.194	27.078	2.	2.	15.	24.5
00076p	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	04/14/72-09/19/88	5	4.	4.2	8.	2.	6.2	2.49	**	**	**	**
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/14/72-09/19/88	7	102.	97.429	120.	68.	295.286	17.184	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/11/52-09/19/88	14	107.5	129.786	204.	67.	2511.104	50.111	76.	88.75	191.	199.5
00300p	OXYGEN, DISSOLVED MG/L	01/27/55-09/19/88	33	12.	12.045	13.5	10.7	0.57	0.755	10.78	11.7	12.45	13.3
00400p	PH (STANDARD UNITS)	01/27/55-09/19/88	35	7.3	7.297	7.9	6.7	0.051	0.227	7.06	7.2	7.4	7.64
00400p	CONVERTED PH (STANDARD UNITS)	01/27/55-09/19/88	35	7.3	7.242	7.9	6.7	0.055	0.234	7.06	7.2	7.4	7.64
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/27/55-09/19/88	35	0.05	0.057	0.2	0.013	0.001	0.032	0.023	0.04	0.063	0.088
00403p	PH, LAB, STANDARD UNITS SU	02/11/52-09/19/88	14	7.55	7.586	8.1	7.1	0.092	0.303	7.15	7.3	7.825	8.
00403p	CONVERTED PH, LAB, STANDARD UNITS	02/11/52-09/19/88	14	7.547	7.491	8.1	7.1	0.102	0.319	7.15	7.3	7.825	8.
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/11/52-09/19/88	14	0.028	0.032	0.079	0.008	0.	0.022	0.01	0.015	0.05	0.071
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	01/15/65-09/20/78	10	35.	32.1	46.	13.	78.989	8.888	14.1	27.75	36.25	45.1
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	02/11/52-09/19/88	14	41.5	45.857	64.	26.	162.901	12.763	30.	36.	59.	64.
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	02/11/52-09/19/88	8	10.65	11.825	18.	6.7	20.019	4.474	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	02/11/52-09/19/88	8	3.3	3.55	5.1	1.8	1.363	1.167	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	02/11/52-09/19/88	14	5.5	8.143	16.	3.1	24.255	4.925	3.4	3.875	12.75	15.5
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	02/11/52-09/19/88	7	0.5	0.643	1.1	0.3	0.106	0.326	**	**	**	**

** - Less than 9 observations ## - Computed 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: 11/10 to 2/20 - Station WHIS0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00941p	CHLORIDE, DISSOLVED IN WATER MG/L	02/11/52-09/19/88	33	3.	6.706	29.	0.5	52.214	7.226	1.	2.	8.	19.6
00946p	SULFATE, DISSOLVED (MG/L AS SO4)	02/11/52-05/23/85	6	10.2	11.383	17.	6.6	15.186	3.897	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	02/11/52-09/05/60	6	0.	0.083	0.3	0.	0.018	0.133	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	01/27/55-05/24/71	2	0.	0.	0.	0.	0.	0.	**	**	**	**
01020p	BORON, DISSOLVED (UG/L AS B)	02/11/52-09/24/85	13	0.	25.385	100.	0.	1610.256	40.128	0.	0.	55.	100.
39036p	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	02/11/52-09/19/88	23	38.	36.87	56.	21.	95.391	9.767	21.8	29.	43.	52.6
71851p	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	02/11/52-05/23/85	6	0.45	0.633	1.7	0.2	0.323	0.568	**	**	**	**

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

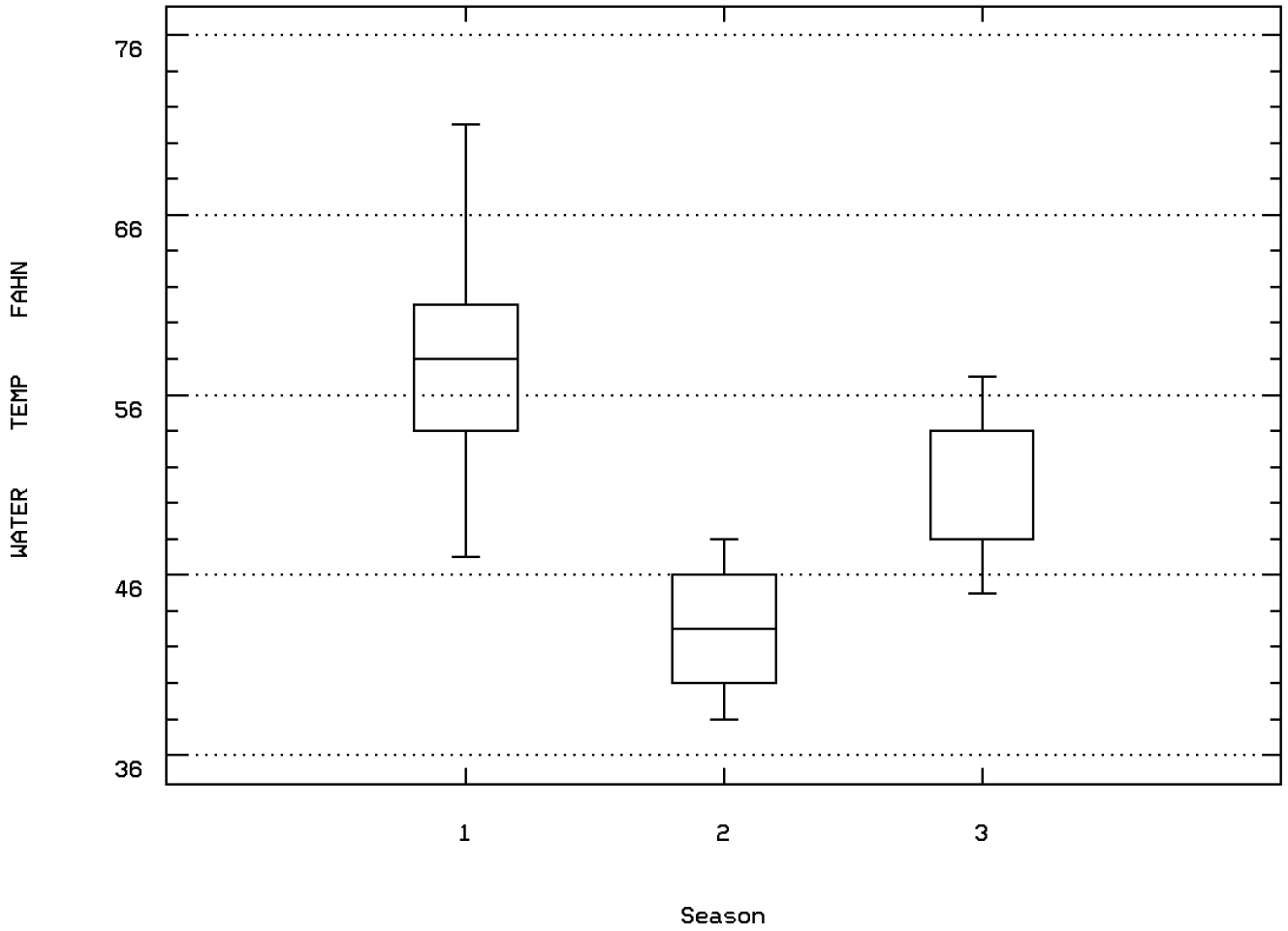
Seasonal Analysis for Season #3: 2/21 to 5/31 - Station WHIS0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/28/58-09/04/86	50	11.4	11.602	18.3	6.7	6.42	2.534	7.8	10.	13.5	14.9
00011p	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/27/55-09/19/88	15	54.	51.733	57.	45.	14.067	3.751	46.2	48.	54.	56.4
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/28/58-09/19/88	47	126.	263.319	1970.	50.	139453.092	373.434	63.	81.	281.	543.6
00065	STAGE, STREAM (FEET)	02/11/52-09/19/88	51	2.82	3.069	5.56	2.38	0.383	0.619	2.48	2.62	3.44	3.824
00075p	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	01/27/55-09/27/71	29	2.	6.	35.	0.	72.929	8.54	1.	1.	6.5	15.
00076p	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	04/14/72-09/19/88	27	1.	3.222	24.	0.	26.41	5.139	1.	1.	3.	10.2
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/14/72-09/19/88	27	85.	88.815	221.	68.	809.003	28.443	70.4	74.	90.	100.2
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/11/52-09/19/88	25	84.	86.72	220.	58.	903.46	30.058	65.6	72.	89.5	102.4
00300p	OXYGEN, DISSOLVED MG/L	01/27/55-09/19/88	62	11.2	11.174	13.	9.3	0.791	0.889	9.93	10.575	11.9	12.27
00400p	PH (STANDARD UNITS)	01/27/55-09/19/88	59	7.4	7.441	8.3	6.9	0.051	0.226	7.3	7.3	7.5	7.7
00400p	CONVERTED PH (STANDARD UNITS)	01/27/55-09/19/88	59	7.4	7.394	8.3	6.9	0.053	0.231	7.3	7.3	7.5	7.7
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/27/55-09/19/88	59	0.04	0.04	0.126	0.005	0.	0.017	0.02	0.032	0.05	0.05
00403p	PH, LAB, STANDARD UNITS SU	02/11/52-09/19/88	32	7.6	7.613	8.4	6.7	0.095	0.309	7.19	7.5	7.8	7.97
00403p	CONVERTED PH, LAB, STANDARD UNITS	02/11/52-09/19/88	32	7.6	7.49	8.4	6.7	0.111	0.333	7.19	7.5	7.8	7.97
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/11/52-09/19/88	32	0.025	0.032	0.2	0.004	0.001	0.035	0.011	0.016	0.032	0.068
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	01/15/65-09/20/78	17	34.	33.529	41.	26.	17.015	4.125	27.6	30.5	36.	40.2
00671p	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/21/58-09/14/77	11	0.01	0.013	0.05	0.	0.	0.016	0.	0.	0.02	0.044
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	02/11/52-09/19/88	23	31.	33.304	90.	24.	179.676	13.404	24.4	26.	35.	42.6
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	02/11/52-09/19/88	17	6.5	7.553	21.	5.	12.99	3.604	5.32	6.25	7.2	11.4
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	02/11/52-09/19/88	17	3.4	3.759	9.	1.8	3.319	1.822	1.88	2.25	4.8	6.28
00930p	SODIUM, DISSOLVED (MG/L AS NA)	02/11/52-09/19/88	25	3.9	4.204	9.	2.6	1.714	1.309	3.12	3.4	4.4	6.2
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	02/11/52-09/19/88	15	0.6	0.713	1.4	0.	0.151	0.389	0.18	0.4	0.9	1.34
00941p	CHLORIDE, DISSOLVED IN WATER MG/L	02/11/52-09/19/88	43	3.	3.067	7.	0.9	2.41	1.552	1.	2.	4.	5.6
00946p	SULFATE, DISSOLVED (MG/L AS SO4)	02/11/52-05/23/85	18	5.4	4.828	10.	0.6	6.346	2.519	0.78	2.775	6.525	7.93
00950	FLUORIDE, DISSOLVED (MG/L AS F)	02/11/52-09/05/60	6	0.	0.	0.	0.	0.	0.	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	01/27/55-05/24/71	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
01020p	BORON, DISSOLVED (UG/L AS B)	02/11/52-09/24/85	22	0.	24.091	200.	0.	3053.896	55.262	0.	0.	0.	121.
39036p	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	02/11/52-09/19/88	26	29.	31.808	90.	20.	174.642	13.215	22.4	25.75	35.25	40.3
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/14/62-09/19/88	10	60.5	67.2	135.	42.	631.511	25.13	43.2	57.	69.	128.7
71851p	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	02/11/52-05/23/85	12	0.	0.092	0.8	0.	0.052	0.227	0.	0.	0.1	0.59

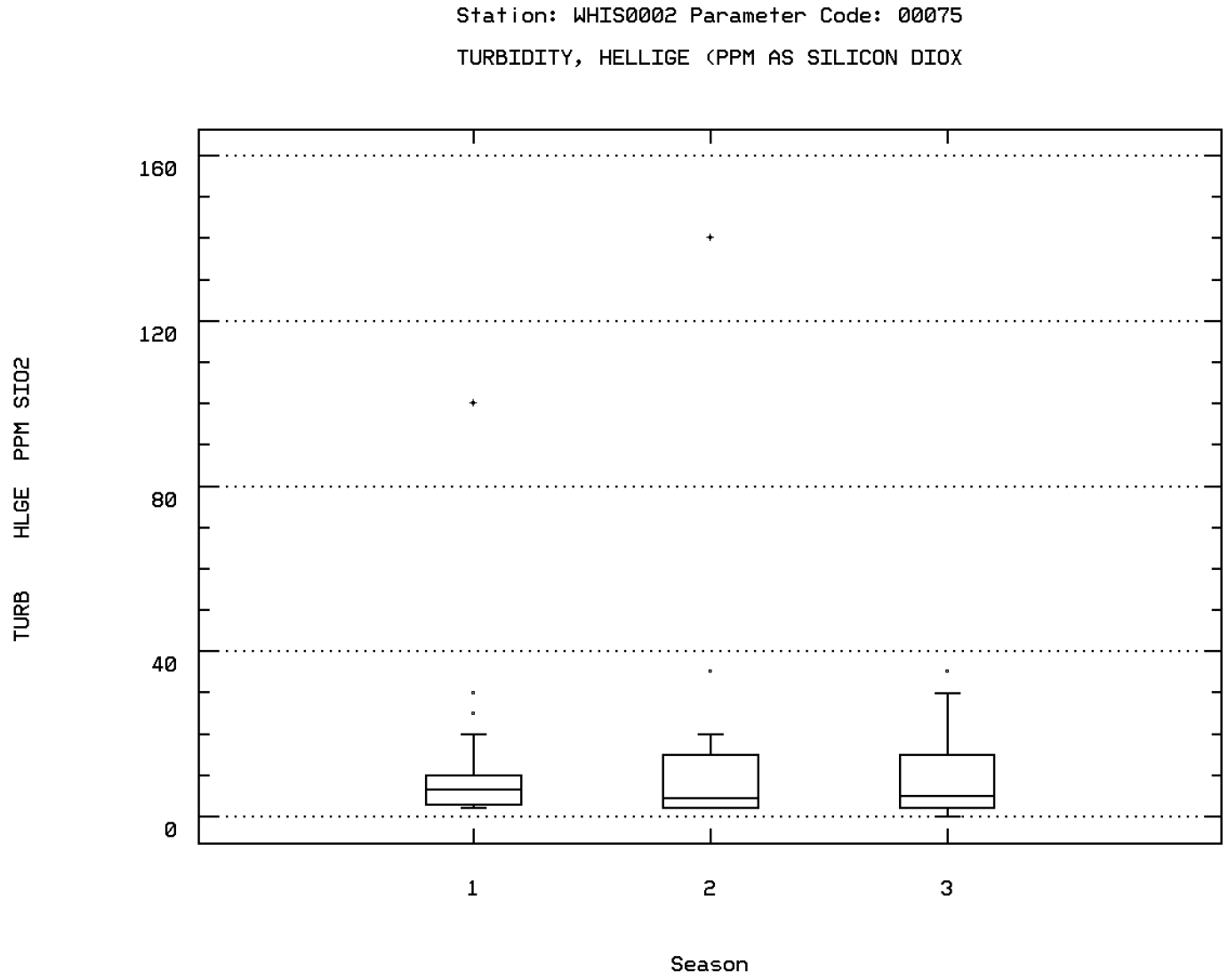
** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station: WHIS0002 Parameter Code: 00011

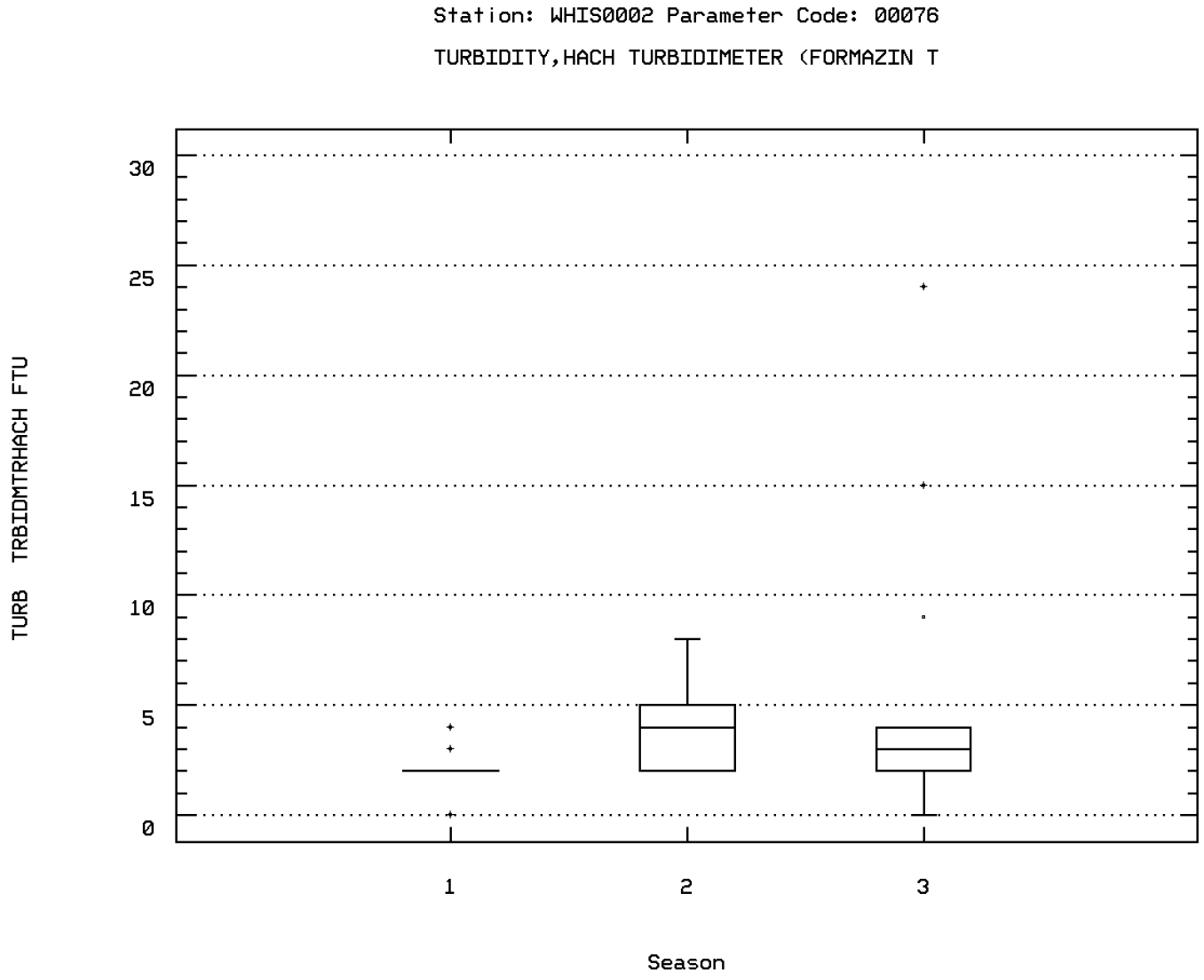
TEMPERATURE, WATER (DEGREES FAHRENHEIT)



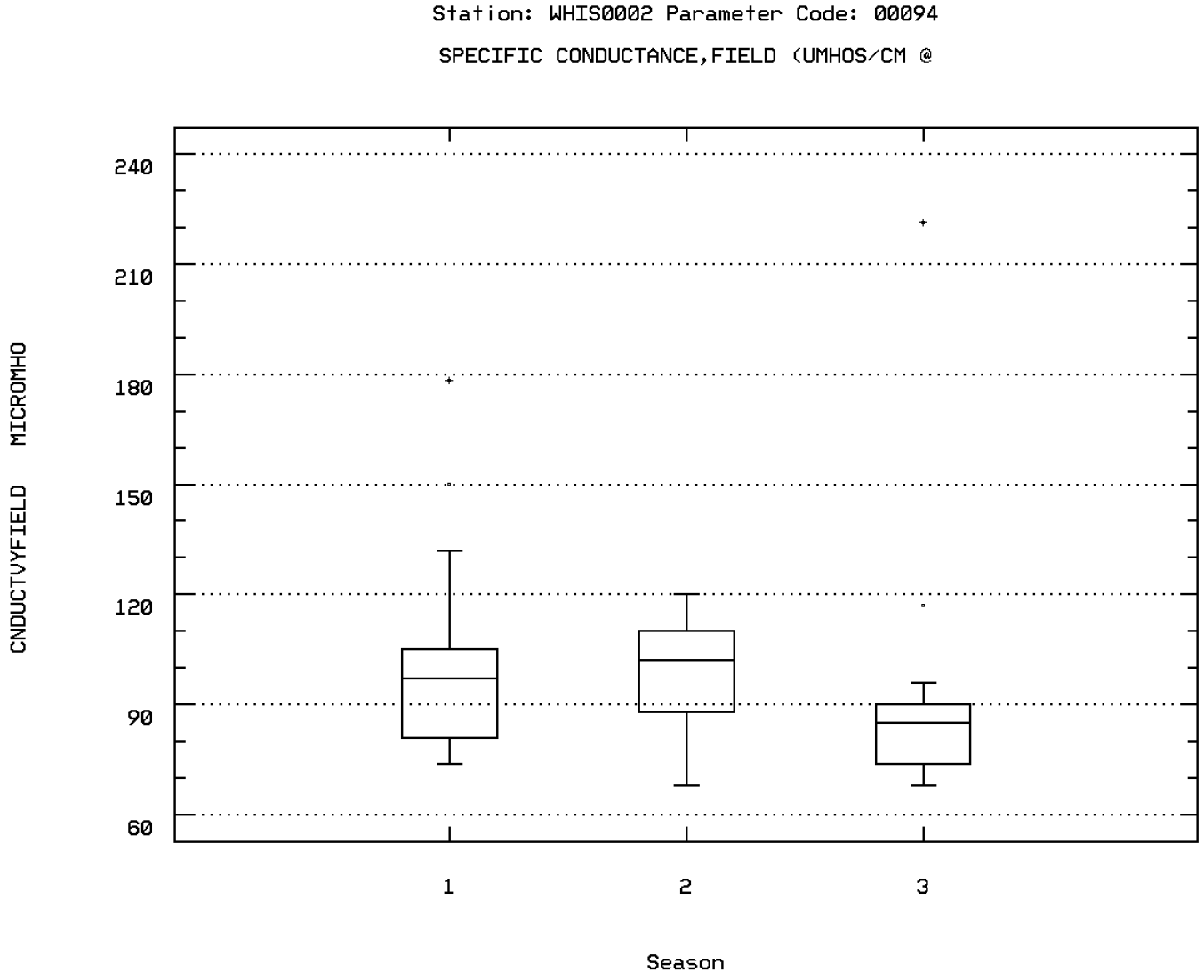
CLEAR CREEK NEAR IGO



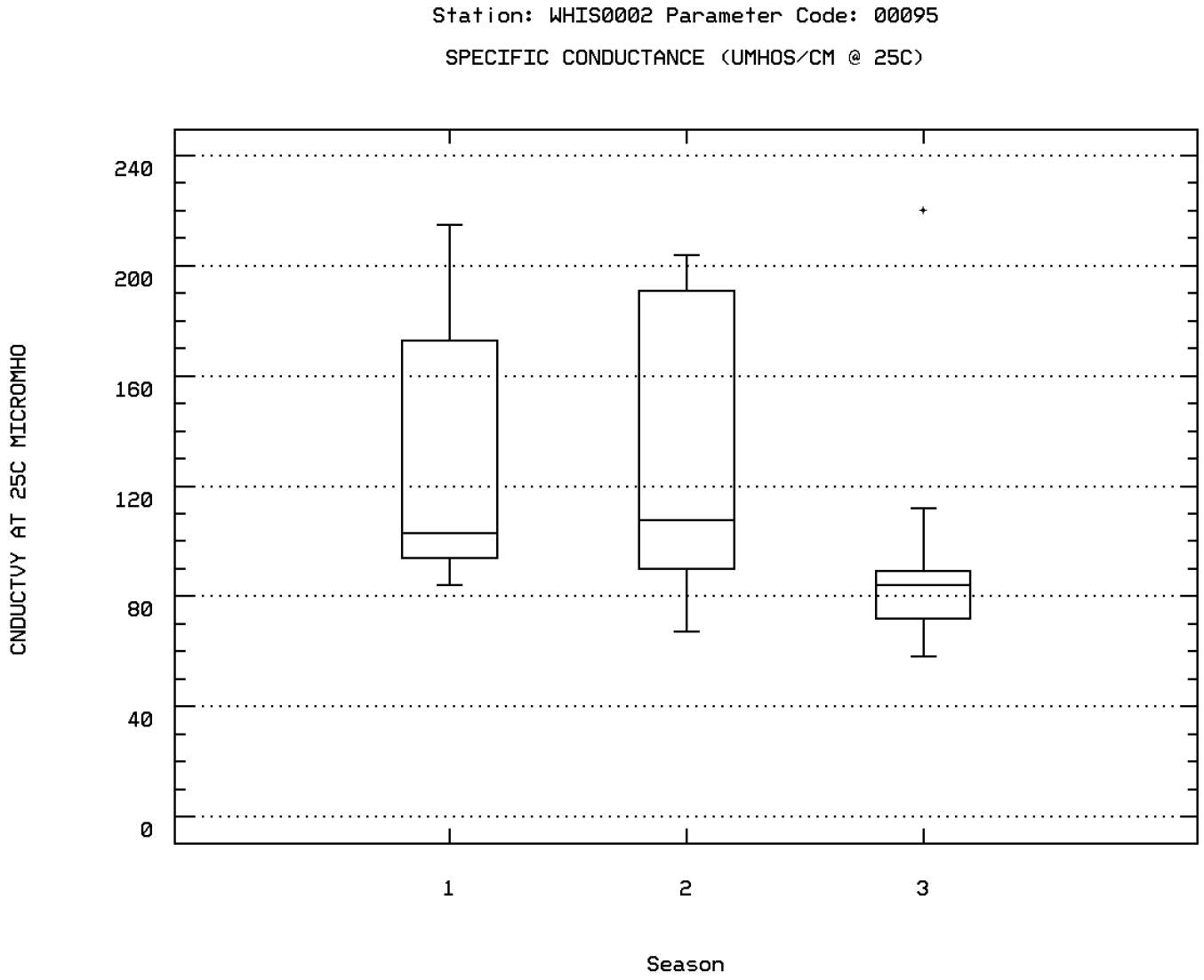
CLEAR CREEK NEAR IGO



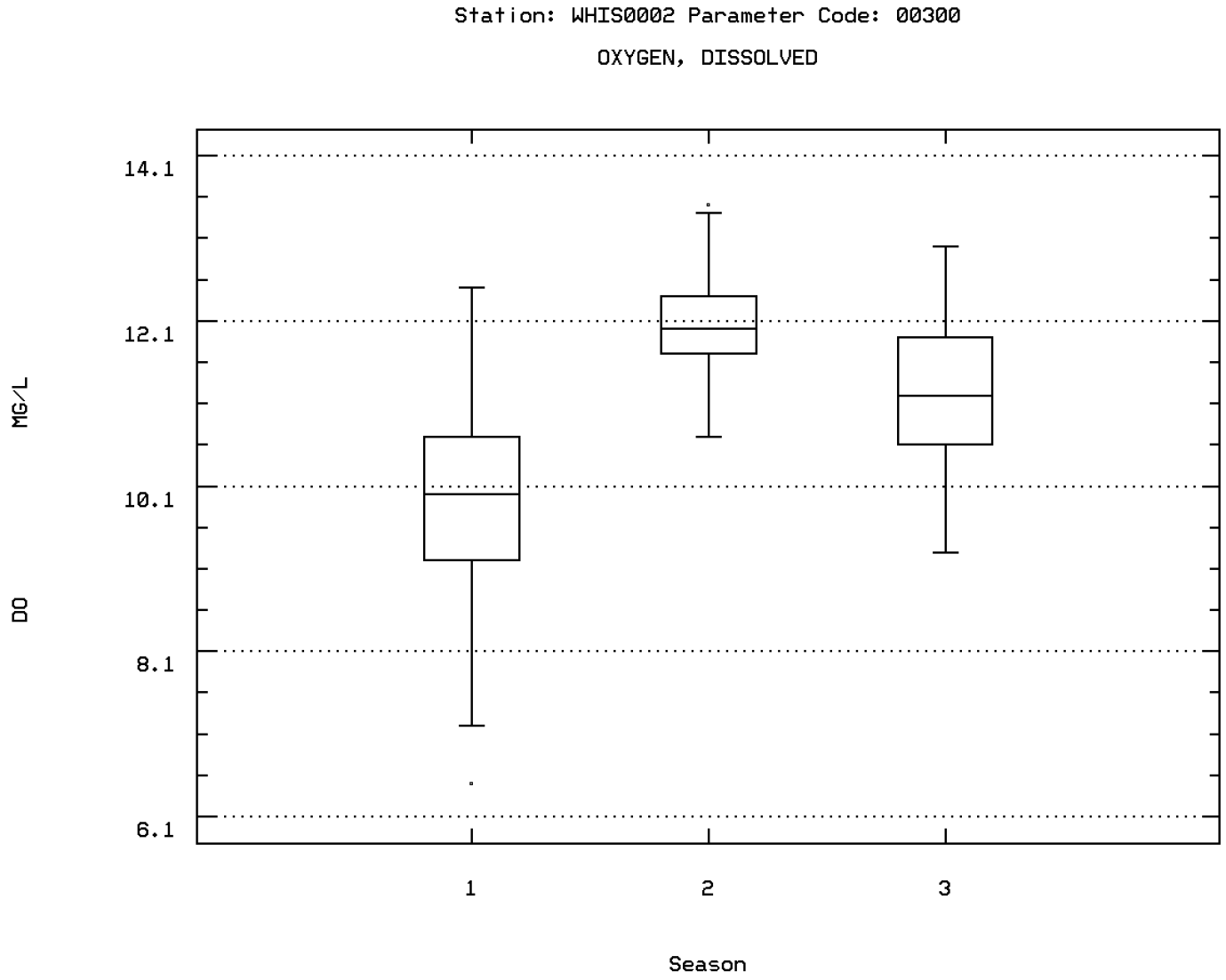
CLEAR CREEK NEAR IGO



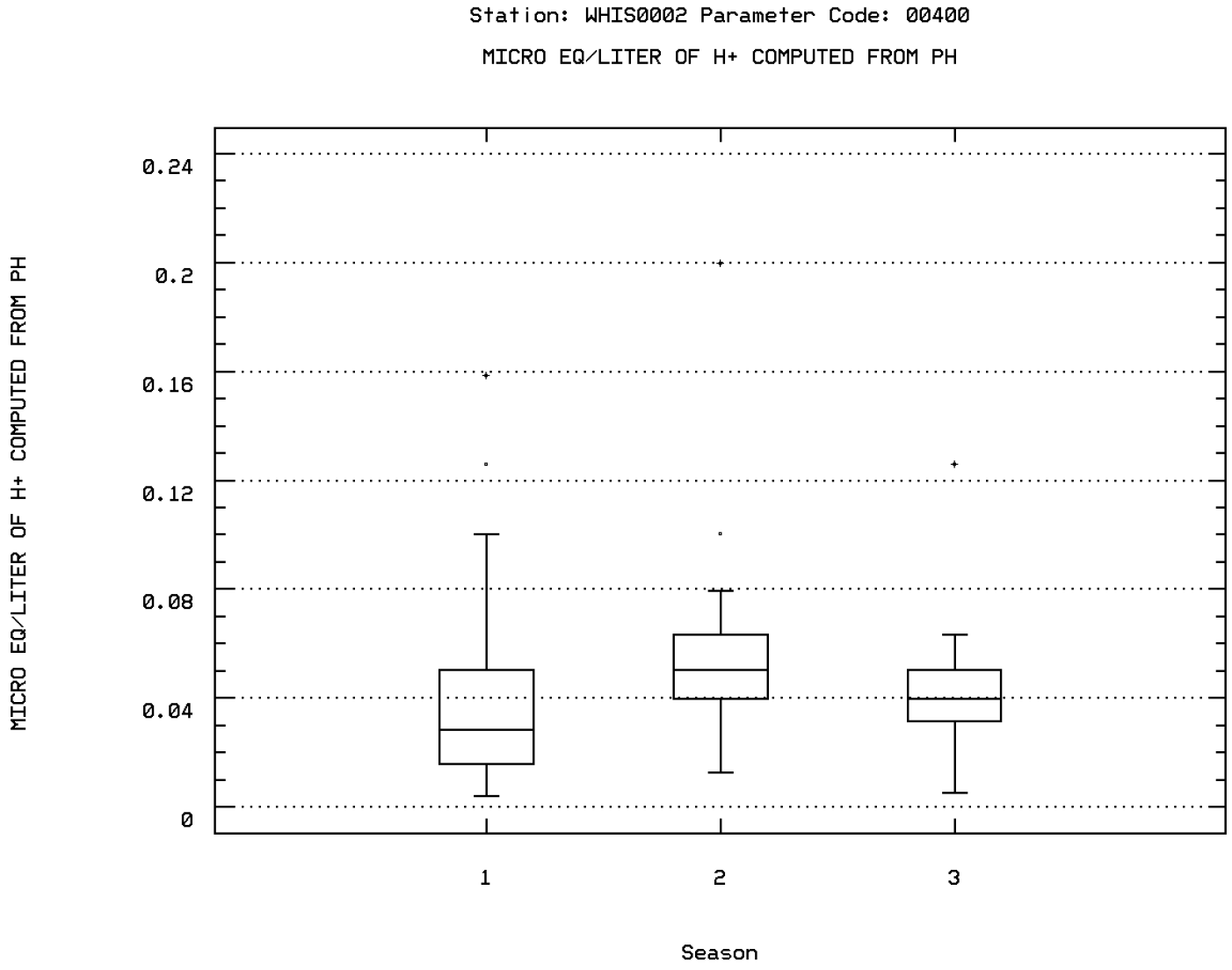
CLEAR CREEK NEAR IGO



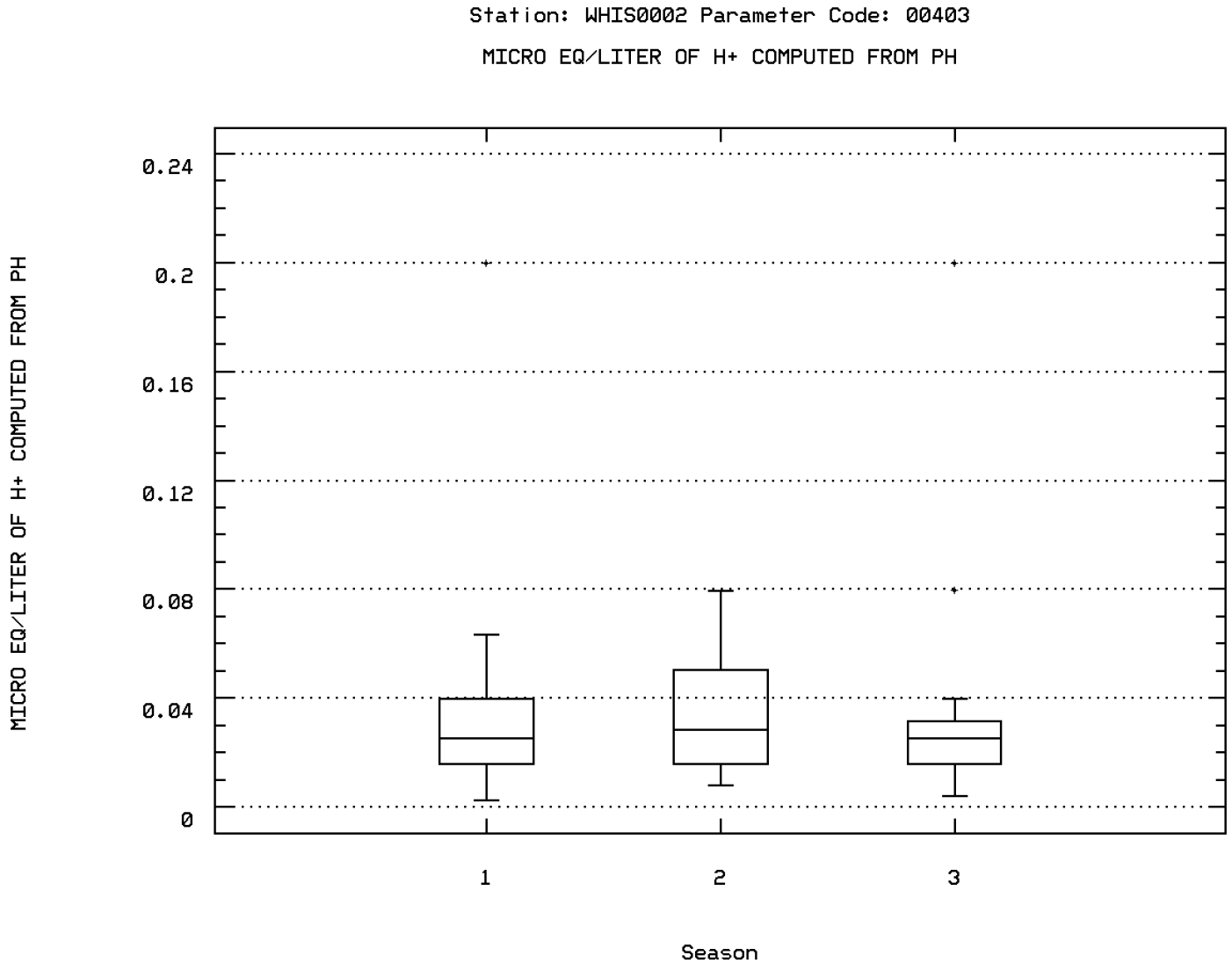
CLEAR CREEK NEAR IGO



CLEAR CREEK NEAR IGO



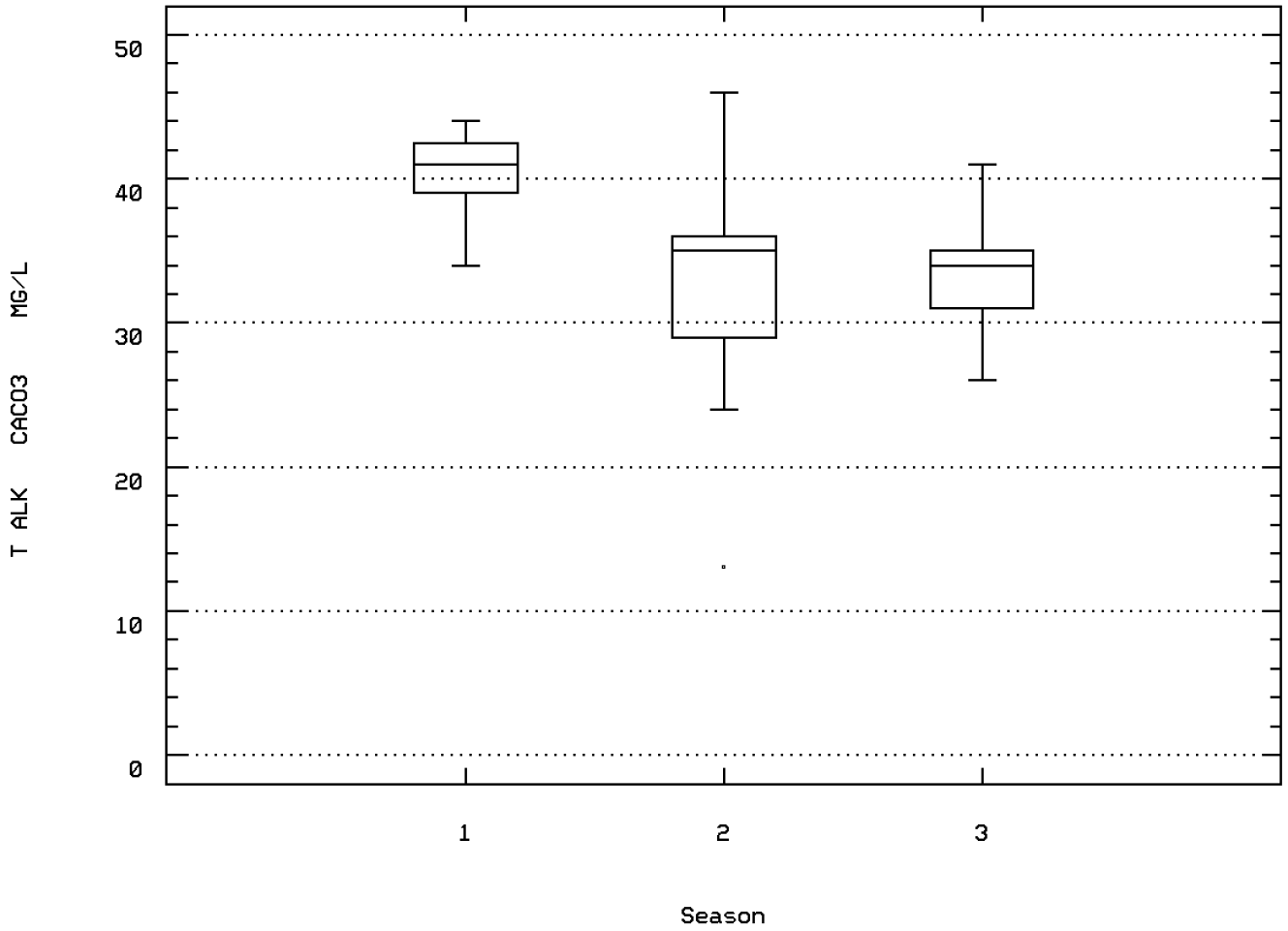
CLEAR CREEK NEAR IGO



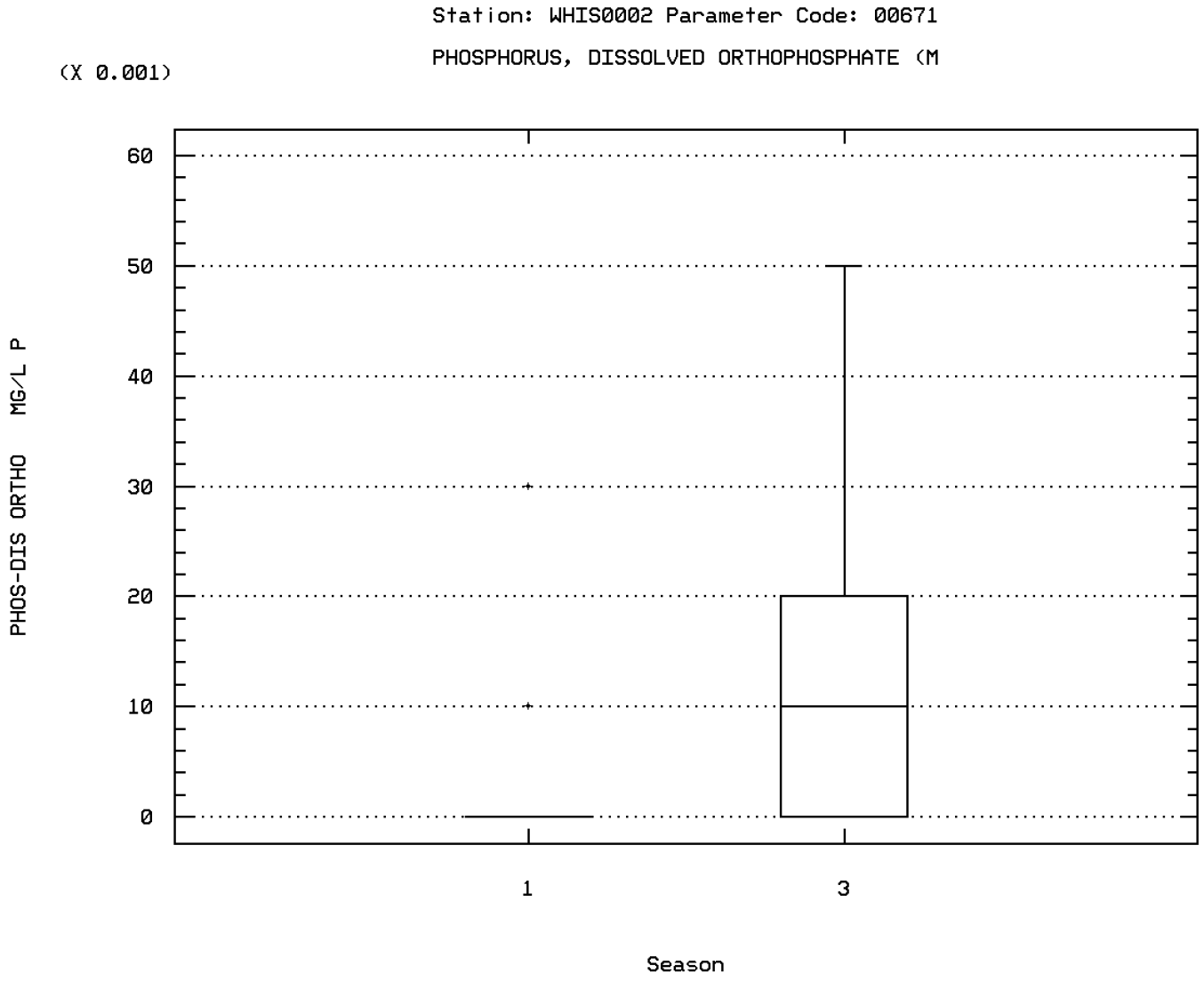
CLEAR CREEK NEAR IGO

Station: WHIS0002 Parameter Code: 00410

ALKALINITY, TOTAL (MG/L AS CACO3)



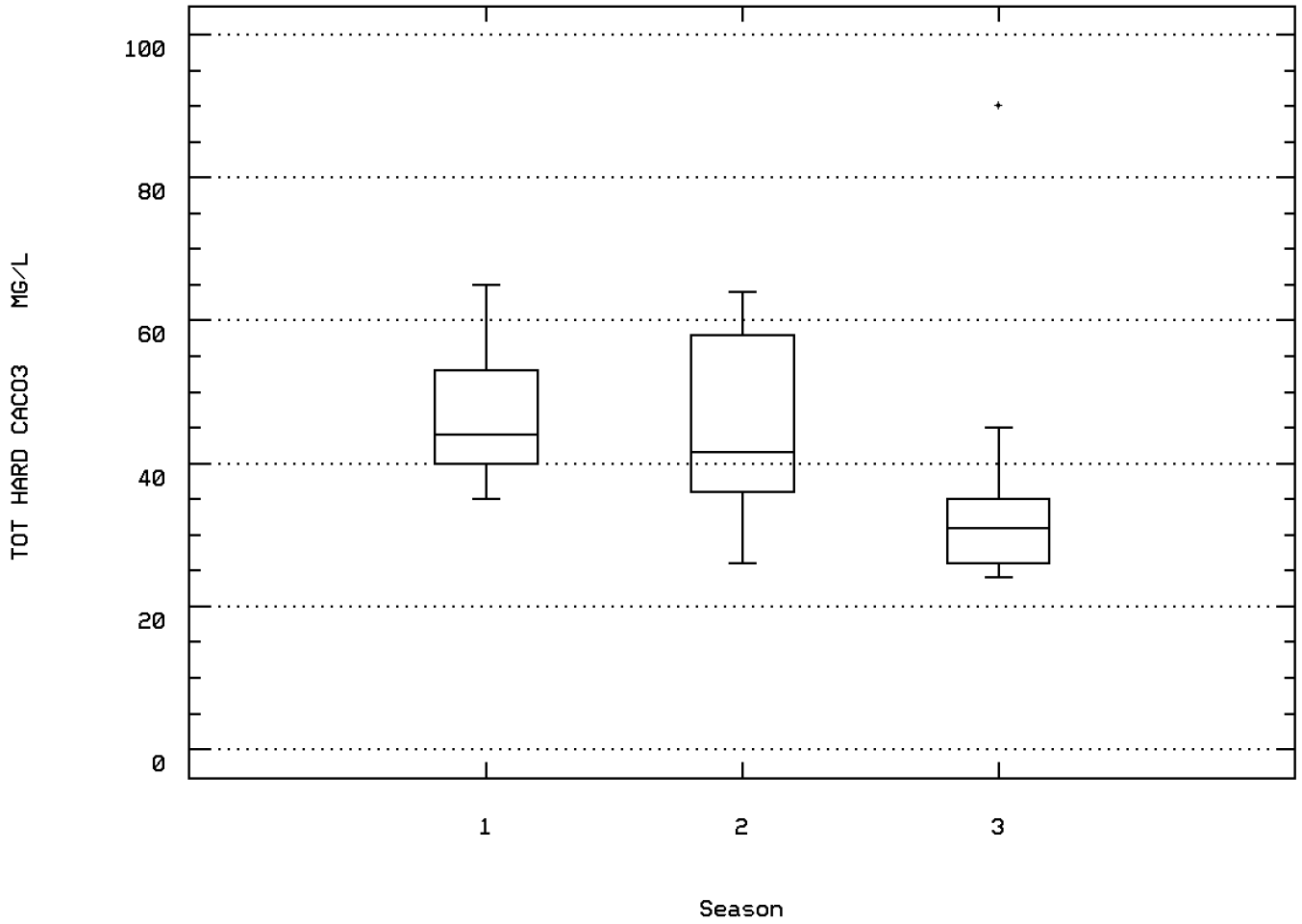
CLEAR CREEK NEAR IGO



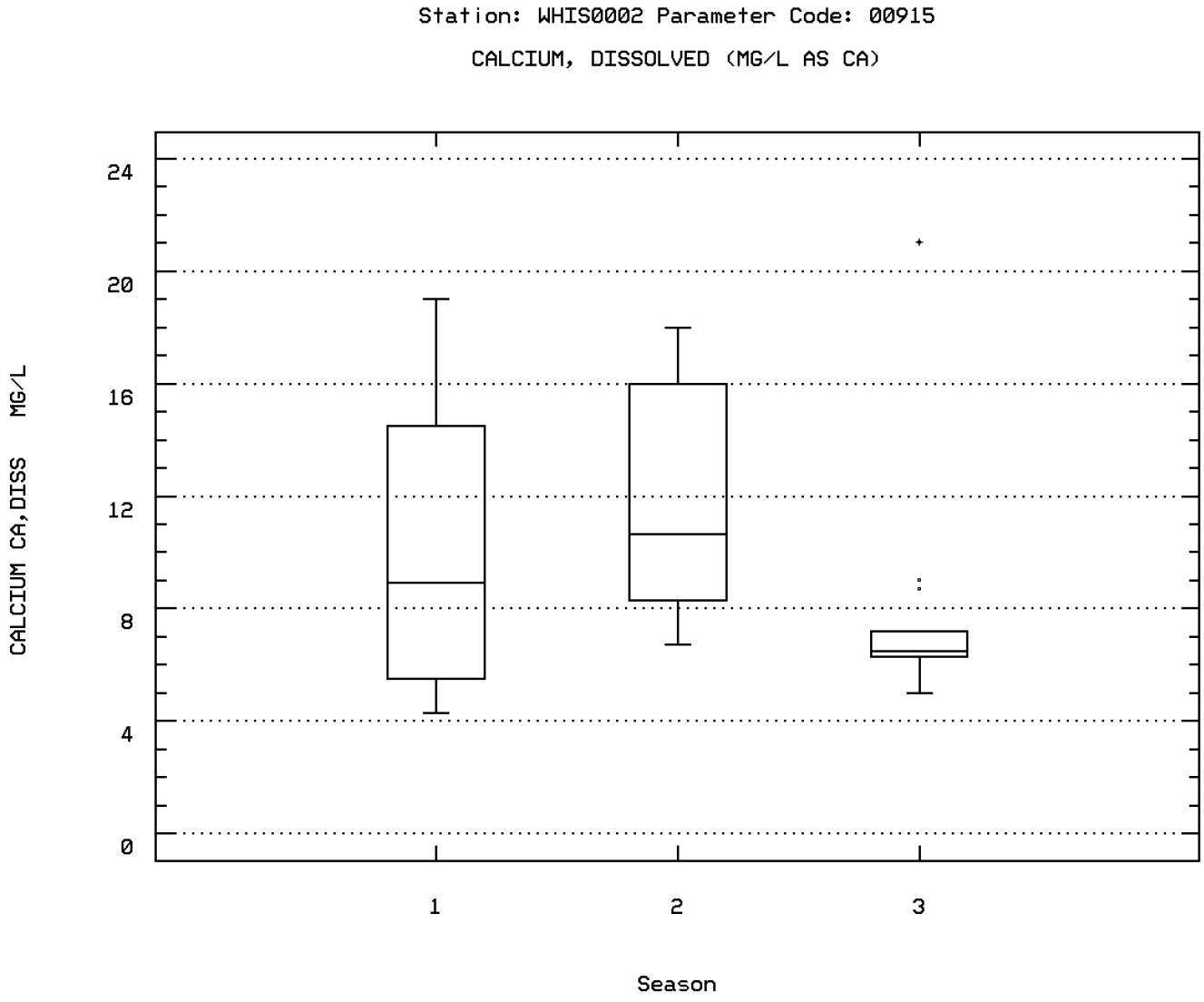
CLEAR CREEK NEAR IGO

Station: WHIS0002 Parameter Code: 00900

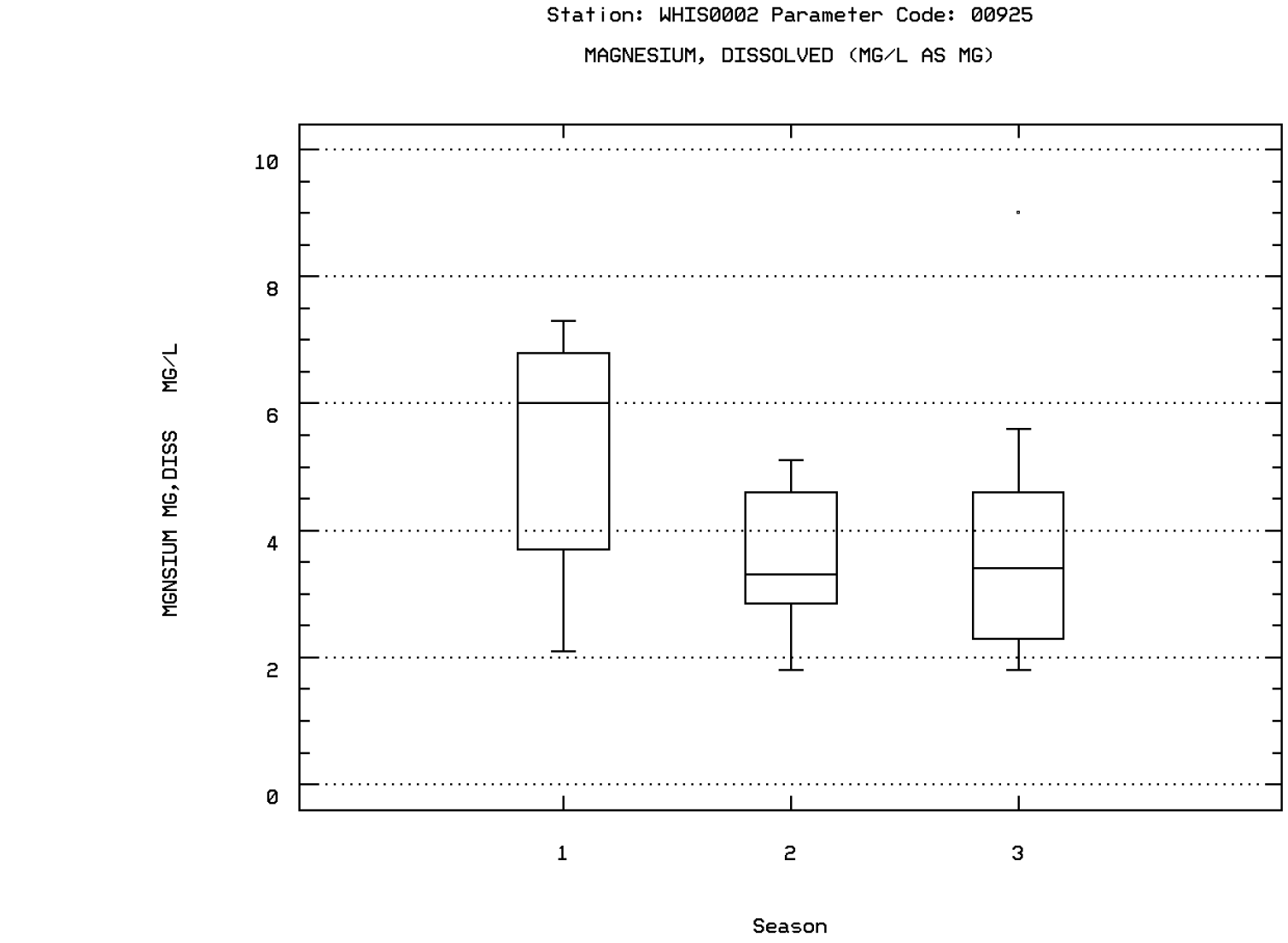
HARDNESS, TOTAL (MG/L AS CACO3)



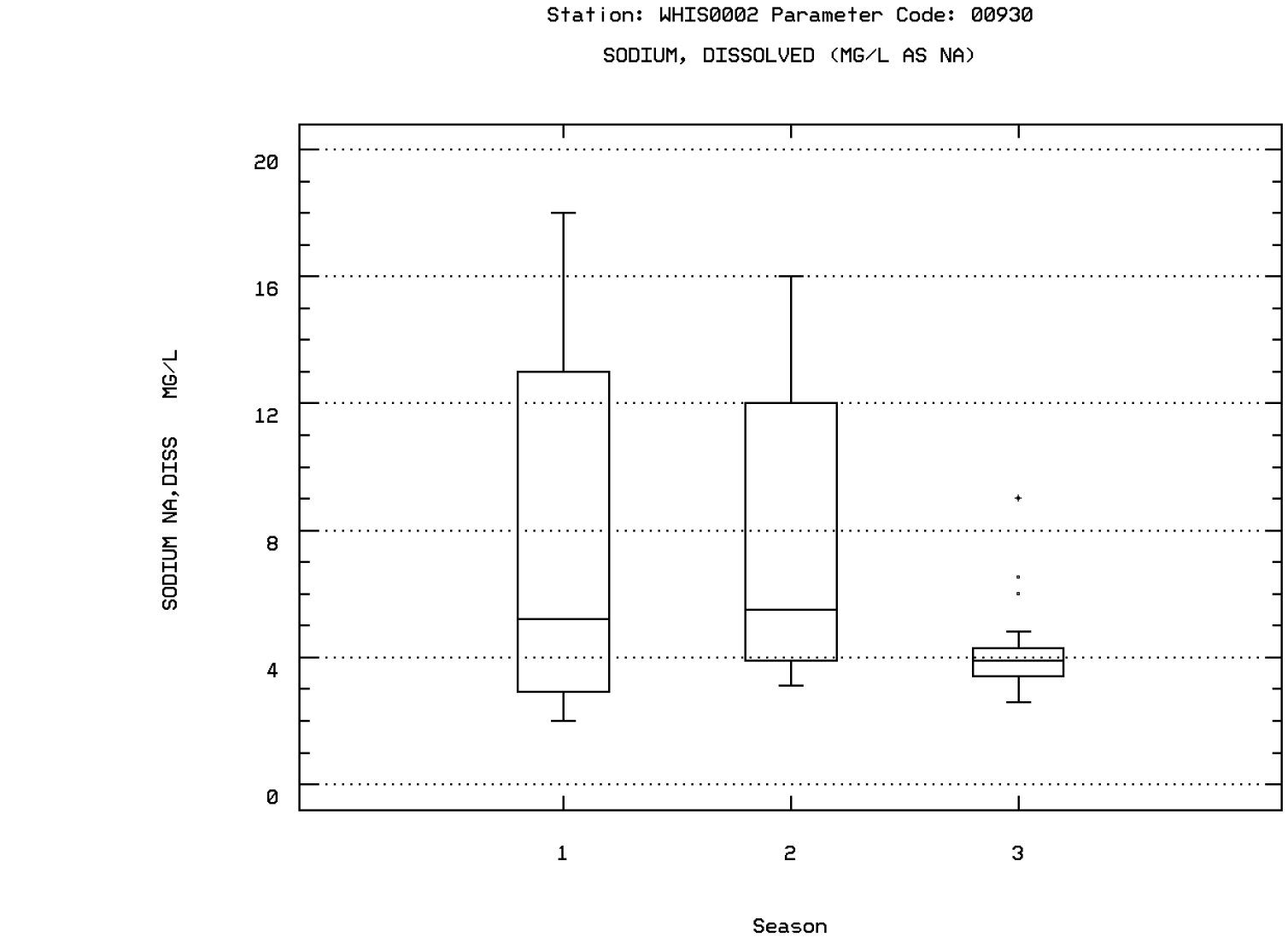
CLEAR CREEK NEAR IGO



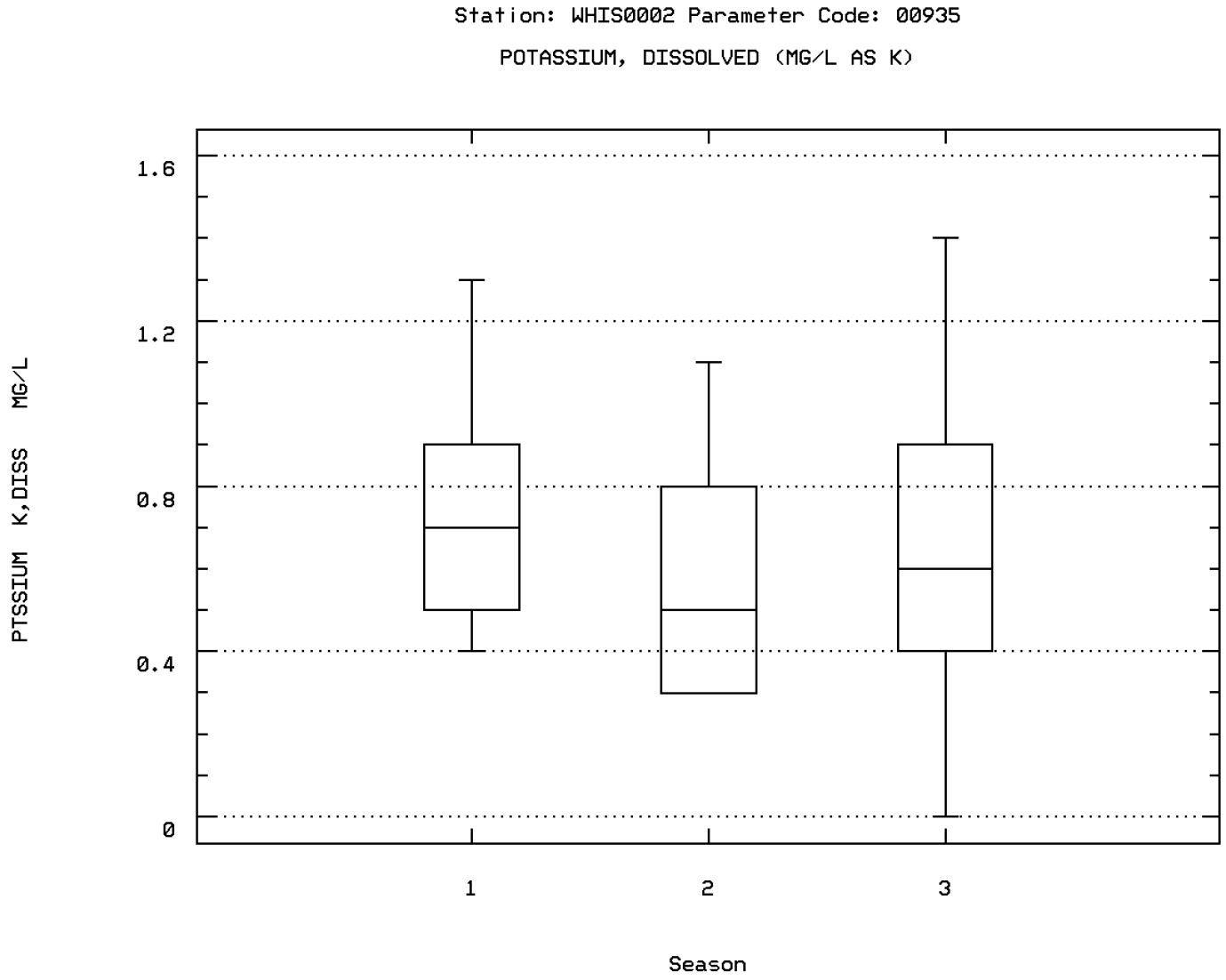
CLEAR CREEK NEAR IGO



CLEAR CREEK NEAR IGO



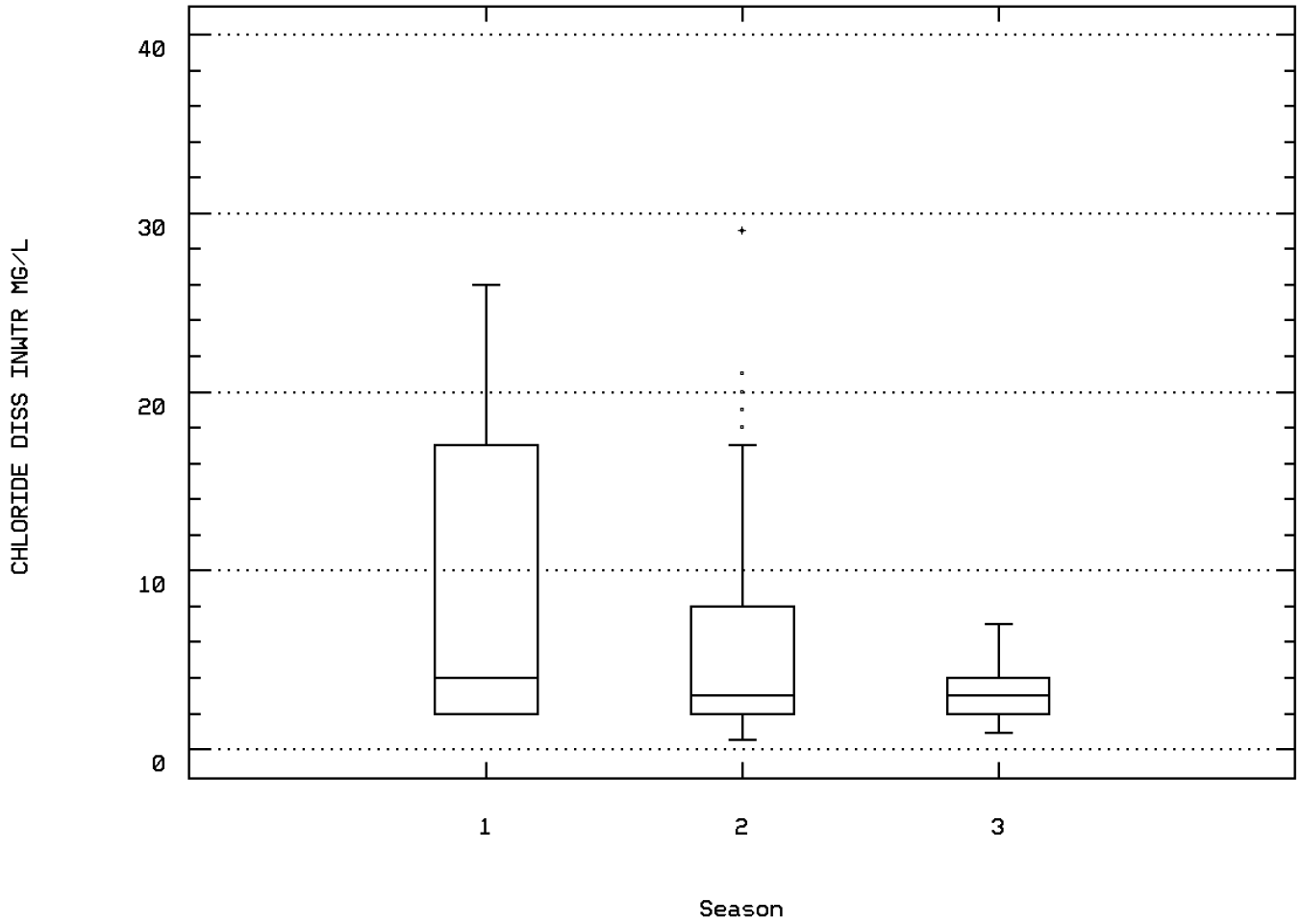
CLEAR CREEK NEAR IGO



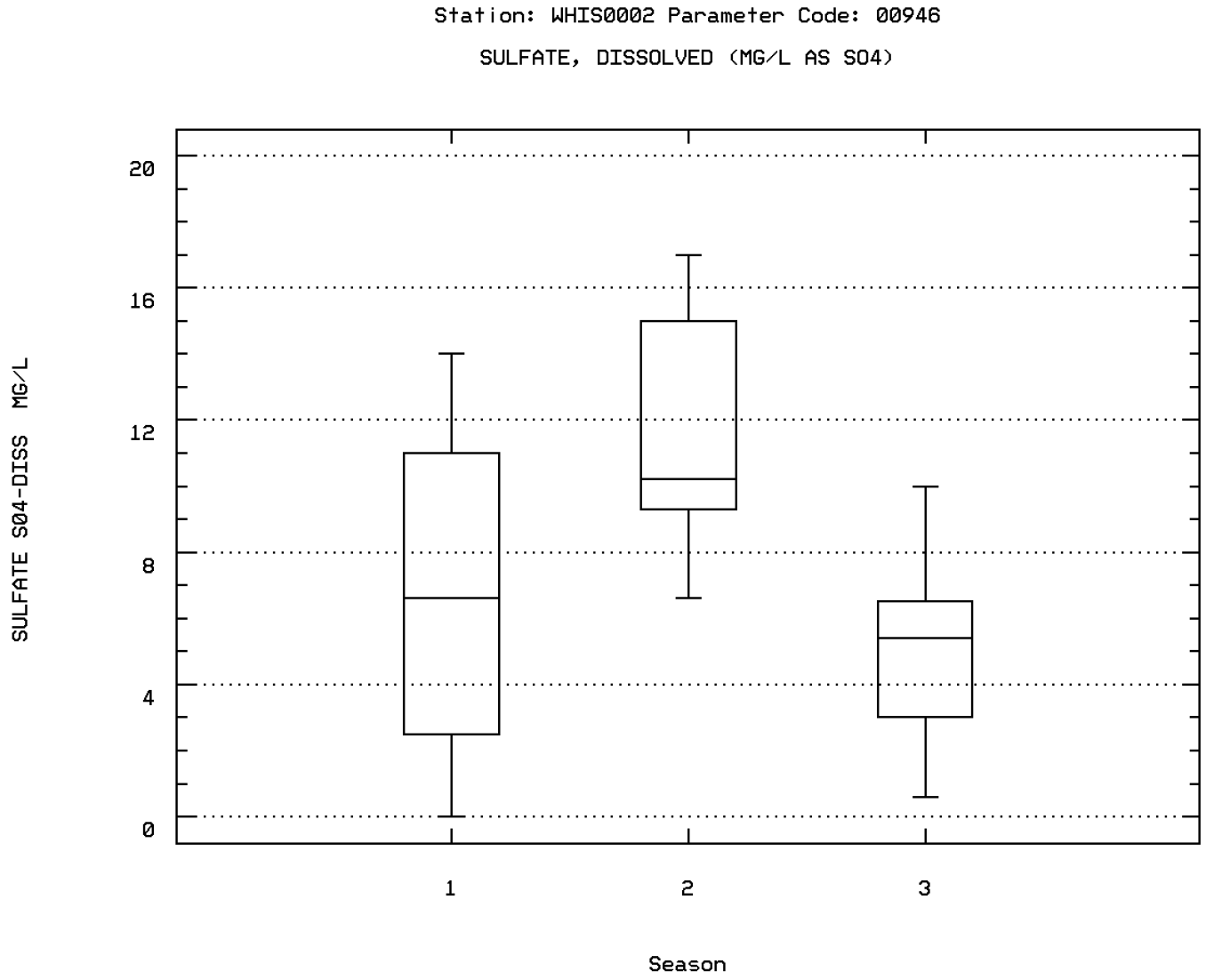
CLEAR CREEK NEAR IGO

Station: WHIS0002 Parameter Code: 00941

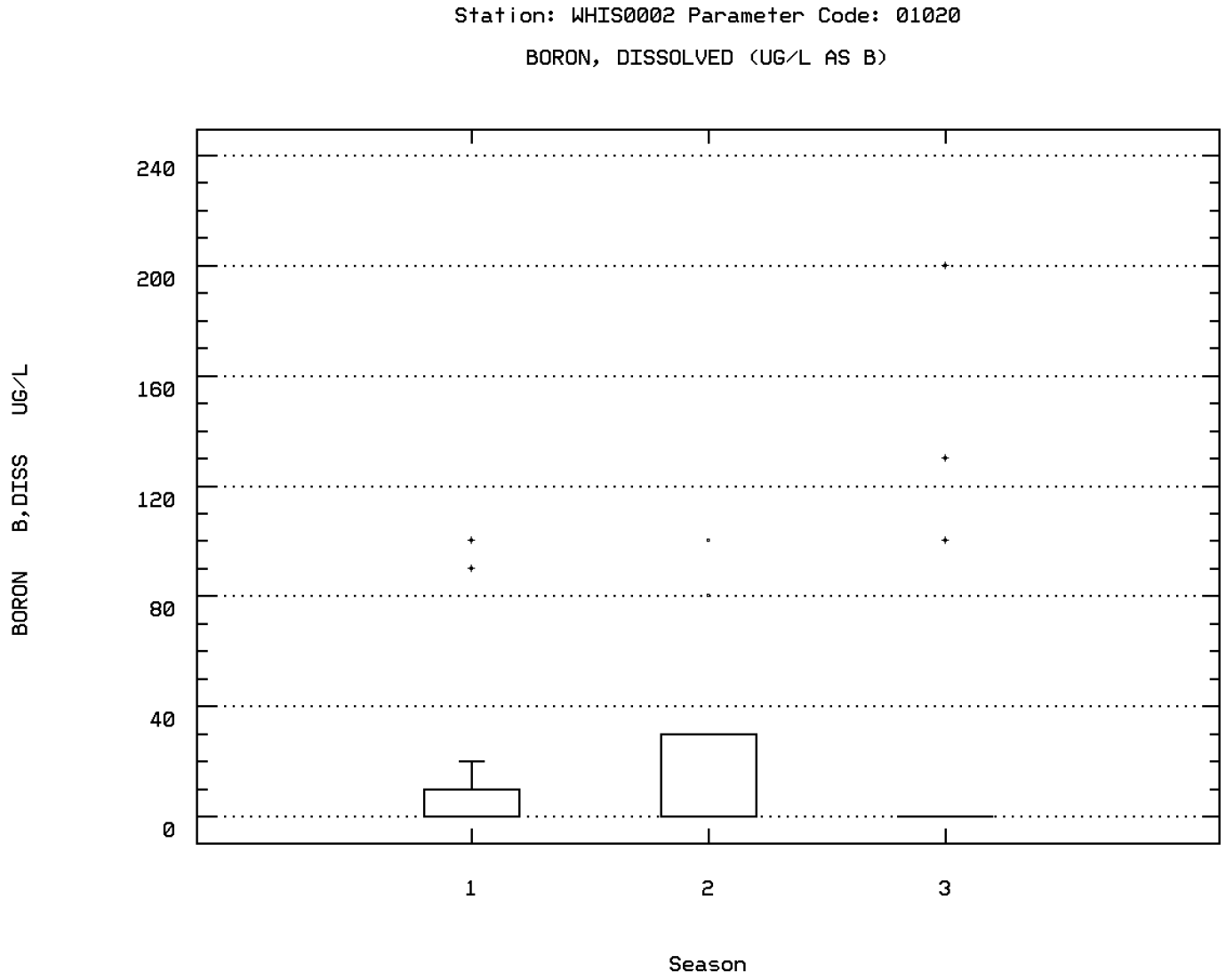
CHLORIDE, DISSOLVED IN WATER



CLEAR CREEK NEAR IGO



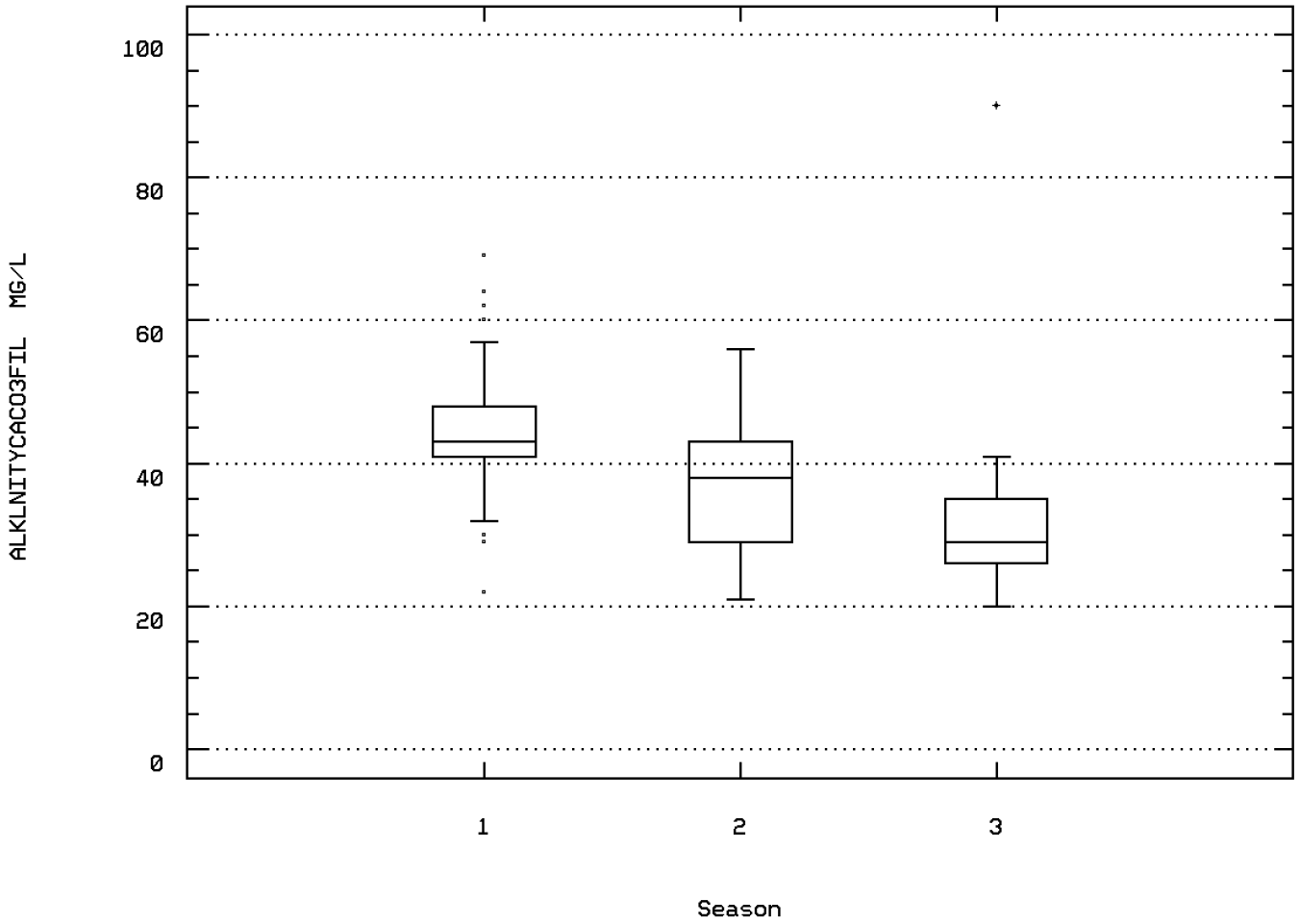
CLEAR CREEK NEAR IGO



CLEAR CREEK NEAR IGO

Station: WHIS0002 Parameter Code: 39036

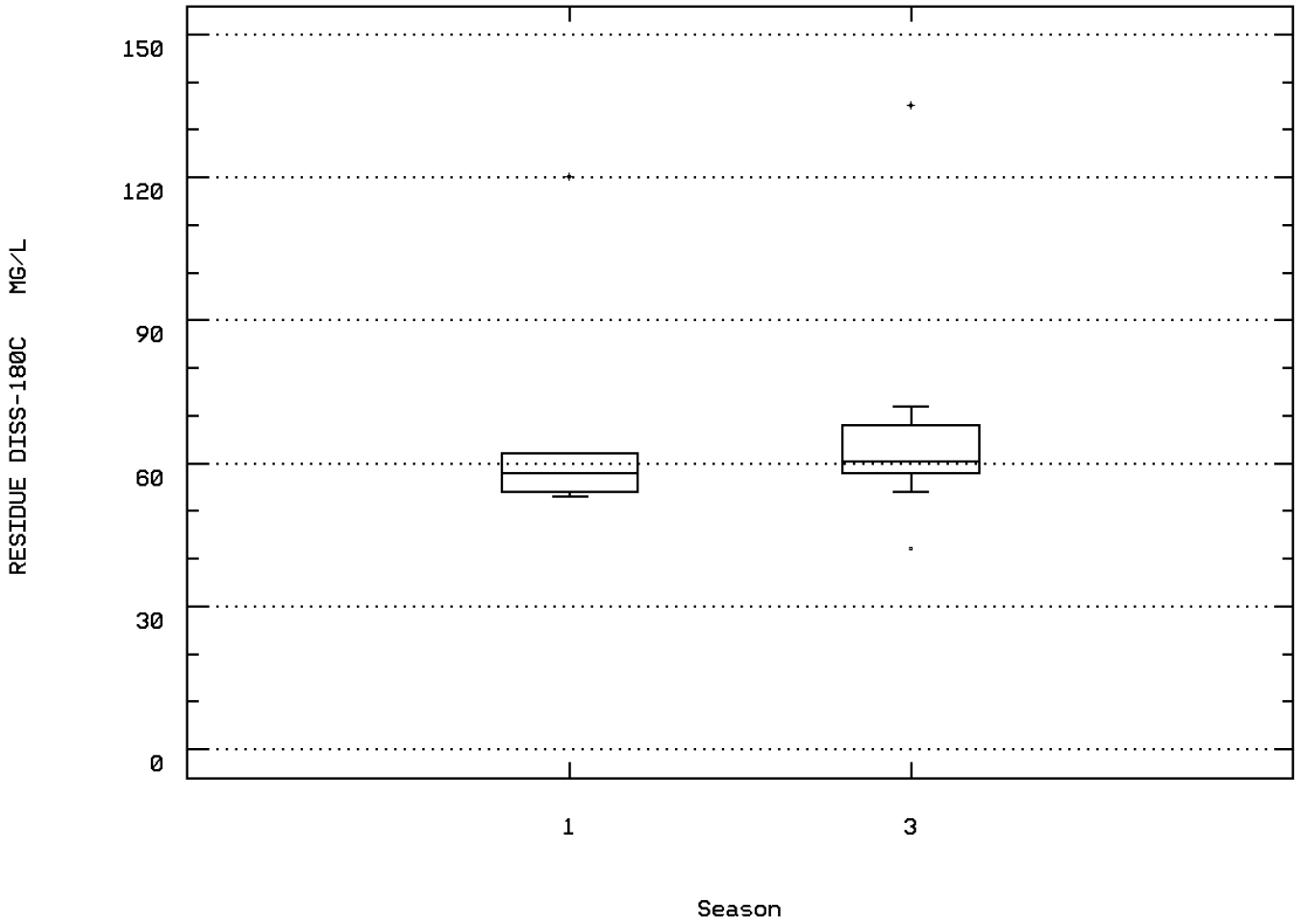
ALKALINITY,FILTERED SAMPLE AS CACO3 MG



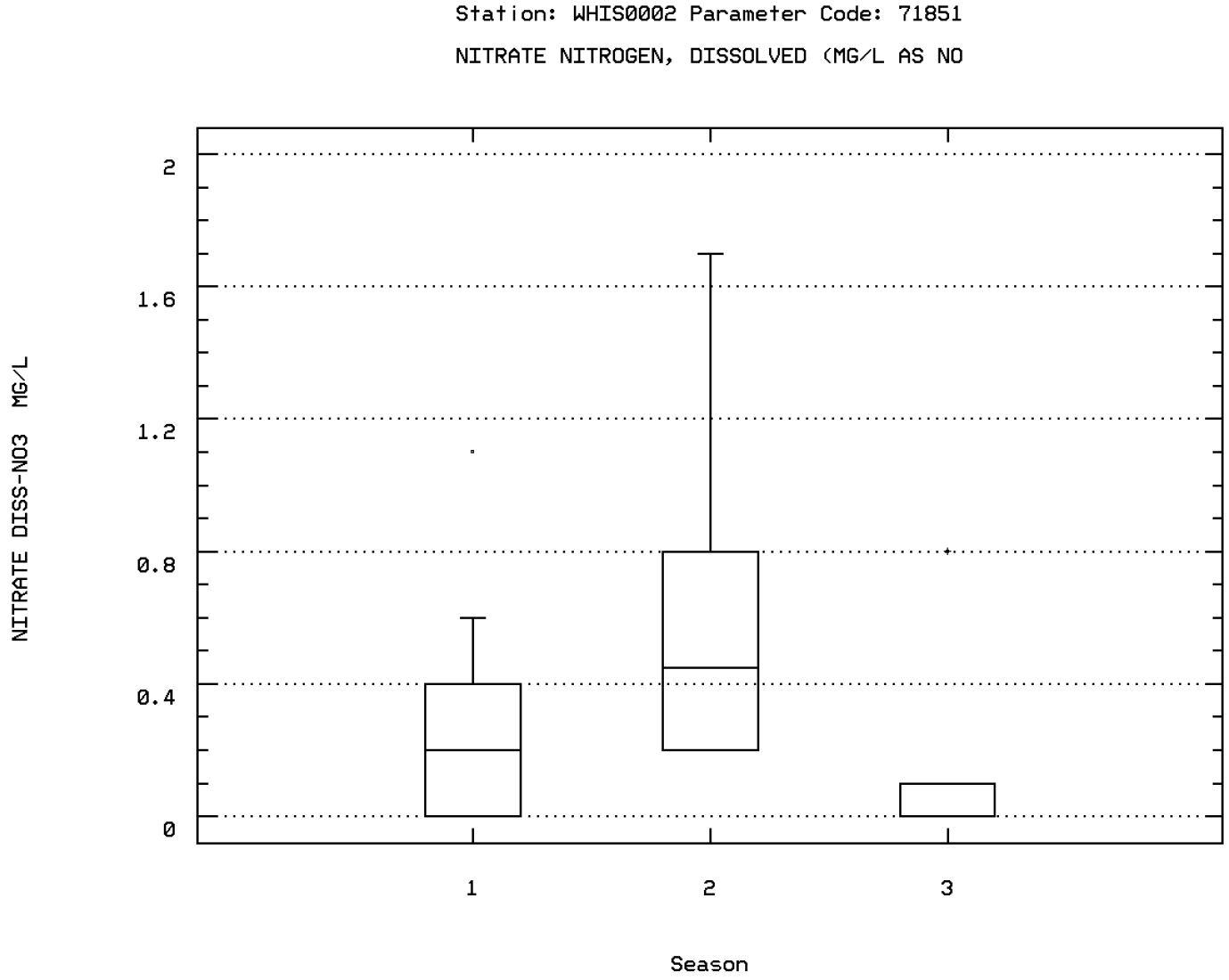
CLEAR CREEK NEAR IGO

Station: WHIS0002 Parameter Code: 70300

RESIDUE,TOTAL FILTRABLE (DRIED AT 180C)



CLEAR CREEK NEAR IGO



CLEAR CREEK NEAR IGO

Station Inventory for Station: WHIS0003

NPS Station ID: WHIS0003
LAT/LON: 40.513337/-122.523060
Agency: 112WRD
Date Created: / /
Location: CLEAR C NR IGO CA
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 11372000
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 18020112
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 18020112
RF1 Mile Point: 0.000
Distance from RF1: 0.30
On/Off RF1:
RF3 Index: 18020112000900.00
RF3 Mile Point: 3.88
Distance from RF3: 0.03
On/Off RF3:
Description:

Parameter Inventory for Station: WHIS0003

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060	FLOW, STREAM, MEAN DAILY CFS	10/10/60-09/02/66	71	117.	314.803	2760.	23.	230283.932	479.879	37.2	55.	338.	1053.2
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/10/60-09/02/66	71	94.	106.113	220.	58.	1589.13	39.864	73.4	83.	110.	190.4
00400	PH (STANDARD UNITS)	10/10/60-09/02/66	71	7.8	7.808	8.7	7.1	0.063	0.252	7.5	7.6	8.	8.1
00400	CONVERTED PH (STANDARD UNITS)	10/10/60-09/02/66	71	7.8	7.736	8.7	7.1	0.069	0.262	7.5	7.6	8.	8.1
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/10/60-09/02/66	71	0.016	0.018	0.079	0.002	0.	0.012	0.008	0.01	0.025	0.032
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/09/61-11/09/61	1	56.	56.	56.	56.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/10/60-09/02/66	71	46.	46.465	73.	16.	131.109	11.45	32.	37.	52.	65.4
00445	CARBONATE ION (MG/L AS CO3)	10/10/63-09/02/66	23	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/10/60-09/02/66	71	41.	41.211	78.	21.	133.569	11.557	28.	33.	44.	59.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/10/60-09/02/66	71	2.	2.958	12.	0.	8.67	2.944	0.	1.	5.	8.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/10/60-09/02/66	13	8.	10.1	19.	4.8	21.4	4.626	5.44	6.95	13.5	18.6
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/10/60-09/02/66	13	4.	4.438	7.3	1.6	3.476	1.864	1.8	2.9	6.05	7.22
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/10/60-09/02/66	71	3.9	5.497	17.	2.2	15.367	3.92	2.8	3.	6.2	13.8
00931	SODIUM ADSORPTION RATIO	10/10/60-09/02/66	71	0.3	0.361	0.9	0.1	0.039	0.197	0.2	0.2	0.4	0.78
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/08/61-09/02/66	12	0.6	0.708	1.6	0.3	0.134	0.365	0.33	0.5	0.925	1.45
00940	CHLORIDE,TOTAL IN WATER MG/L	10/10/60-09/02/66	71	3.	5.58	26.	0.5	38.526	6.207	2.	2.	6.	18.8
00945	SULFATE, TOTAL (MG/L AS SO4)	05/08/61-09/02/66	12	4.5	5.167	11.	2.	7.788	2.791	2.	3.	6.75	10.4
00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/08/61-05/07/64	7	0.1	0.057	0.1	0.	0.003	0.053	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/08/61-09/02/66	12	14.5	14.917	21.	11.	8.447	2.906	11.3	12.25	17.	20.1
01020	BORON, DISSOLVED (UG/L AS B)	10/10/60-09/02/66	72	0.	9.722	100.	0.	890.063	29.834	0.	0.	0.	70.
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	05/08/61-09/02/66	12	62.5	72.083	121.	60.	505.174	22.476	60.	61.	66.	120.4
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	05/08/61-09/02/66	12	0.085	0.097	0.16	0.08	0.001	0.03	0.08	0.08	0.09	0.16
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	05/08/61-09/02/66	12	0.4	0.508	1.1	0.	0.144	0.38	0.	0.225	0.875	1.07
71885	IRON (UG/L AS FE)	05/08/61-05/08/61	1	10.	10.	10.	10.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0003

				Total	Exceed	Prop.	----------6/01-11/09----------			----------11/10-2/20----------			----------2/21-5/31----------			--------------n/a--------------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	71	0	0.00	34	0	0.00	19	0	0.00	18	0	0.00			
		Other-Lo Lim.	6.5	71	0	0.00	34	0	0.00	19	0	0.00	18	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	71	0	0.00	34	0	0.00	19	0	0.00	18	0	0.00			
		Drinking Water	250.	71	0	0.00	34	0	0.00	19	0	0.00	18	0	0.00			

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

EPA Water Quality Criteria Analysis for Station: WHIS0003

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	12	0	0.00	6	0	0.00				6	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	7	0	0.00	3	0	0.00				4	0	0.00			
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	12	0	0.00	6	0	0.00				6	0	0.00			

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

Annual Analysis for 1960 - Station WHIS0003

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060	FLOW, STREAM, MEAN DAILY CFS	10/10/60-09/02/66	3	40.	78.333	160.	35.	5008.333	70.77	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/10/60-09/02/66	3	180.	164.	193.	119.	1561.	39.509	**	**	**	**
00400	PH (STANDARD UNITS)	10/10/60-09/02/66	3	7.9	7.8	8.	7.5	0.07	0.265	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/10/60-09/02/66	3	7.9	7.743	8.	7.5	0.075	0.274	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/10/60-09/02/66	3	0.013	0.018	0.032	0.01	0.	0.012	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/10/60-09/02/66	3	66.	65.333	67.	63.	4.333	2.082	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/10/60-09/02/66	3	59.	57.667	63.	51.	37.333	6.11	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/10/60-09/02/66	3	5.	4.333	8.	0.	16.333	4.041	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/10/60-09/02/66	3	13.	11.167	14.	6.5	16.583	4.072	**	**	**	**
00931	SODIUM ADSORPTION RATIO	10/10/60-09/02/66	3	0.7	0.633	0.8	0.4	0.043	0.208	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/10/60-09/02/66	3	17.	14.	18.	7.	37.	6.083	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	10/10/60-09/02/66	3	0.	0.	0.	0.	0.	0.	**	**	**	**

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

Annual Analysis for 1961 - Station WHIS0003

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060	FLOW, STREAM, MEAN DAILY CFS	10/10/60-09/02/66	12	142.	258.	1440.	28.	154186.727	392.666	28.6	38.	313.5	1127.4
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/10/60-09/02/66	12	115.5	135.25	220.	63.	3351.295	57.89	68.4	83.	199.25	219.7
00400	PH (STANDARD UNITS)	10/10/60-09/02/66	12	7.8	7.867	8.7	7.2	0.135	0.368	7.32	7.625	8.	8.55
00400	CONVERTED PH (STANDARD UNITS)	10/10/60-09/02/66	12	7.8	7.738	8.7	7.2	0.153	0.391	7.32	7.625	8.	8.55
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/10/60-09/02/66	12	0.016	0.018	0.063	0.002	0.	0.016	0.003	0.01	0.024	0.052
00440	BICARBONATE ION (MG/L AS HCO3)	10/10/60-09/02/66	12	47.	50.083	73.	26.	254.992	15.968	28.1	36.25	67.5	71.8
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/10/60-09/02/66	12	44.	47.75	78.	26.	297.659	17.253	27.2	31.	61.75	76.5
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/10/60-09/02/66	12	5.	5.	9.	0.	6.364	2.523	0.6	3.25	6.75	8.7
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/10/60-09/02/66	12	6.6	8.575	15.	3.	20.509	4.529	3.39	4.9	13.75	15.
00931	SODIUM ADSORPTION RATIO	10/10/60-09/02/66	12	0.4	0.517	0.8	0.3	0.038	0.195	0.3	0.4	0.75	0.8
00940	CHLORIDE,TOTAL IN WATER MG/L	10/10/60-09/02/66	12	7.	10.125	22.	0.5	64.642	8.04	1.25	3.25	19.	22.
01020	BORON, DISSOLVED (UG/L AS B)	10/10/60-09/02/66	12	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

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

Annual Analysis for 1962 - Station WHIS0003

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060	FLOW, STREAM, MEAN DAILY CFS	10/10/60-09/02/66	12	112.	402.	2760.	23.	587069.273	766.204	23.9	41.5	407.75	2120.4
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/10/60-09/02/66	12	115.	123.583	214.	58.	2793.538	52.854	60.4	75.75	178.25	207.4
00400	PH (STANDARD UNITS)	10/10/60-09/02/66	12	7.6	7.608	7.9	7.1	0.048	0.219	7.19	7.5	7.8	7.87
00400	CONVERTED PH (STANDARD UNITS)	10/10/60-09/02/66	12	7.6	7.55	7.9	7.1	0.052	0.228	7.19	7.5	7.8	7.87
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/10/60-09/02/66	12	0.025	0.028	0.079	0.013	0.	0.018	0.014	0.016	0.032	0.068
00440	BICARBONATE ION (MG/L AS HCO3)	10/10/60-09/02/66	12	44.	45.083	68.	26.	196.083	14.003	26.6	32.	58.5	66.2
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/10/60-09/02/66	12	41.5	42.	63.	24.	192.545	13.876	25.2	28.	56.75	61.8
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/10/60-09/02/66	12	5.	5.083	12.	1.	10.811	3.288	1.3	2.	7.75	10.8
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/10/60-09/02/66	12	6.4	8.383	17.	2.8	27.331	5.228	2.92	3.9	14.325	16.7
00931	SODIUM ADSORPTION RATIO	10/10/60-09/02/66	12	0.4	0.517	0.9	0.2	0.063	0.252	0.23	0.325	0.825	0.9
00940	CHLORIDE,TOTAL IN WATER MG/L	10/10/60-09/02/66	12	7.5	10.167	26.	1.	66.515	8.156	1.6	4.25	18.5	24.5
01020	BORON, DISSOLVED (UG/L AS B)	10/10/60-09/02/66	13	0.	7.692	100.	0.	769.231	27.735	0.	0.	0.	60.

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0003

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060	FLOW, STREAM, MEAN DAILY CFS	10/10/60-09/02/66	12	484.	660.917	1520.	56.	335344.083	579.089	76.7	125.75	1312.5	1466.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/10/60-09/02/66	12	91.	89.583	111.	76.	96.447	9.821	76.6	80.25	95.25	106.5
00400	PH (STANDARD UNITS)	10/10/60-09/02/66	12	7.7	7.7	7.9	7.5	0.016	0.128	7.53	7.6	7.8	7.9
00400	CONVERTED PH (STANDARD UNITS)	10/10/60-09/02/66	12	7.7	7.683	7.9	7.5	0.017	0.129	7.53	7.6	7.8	7.9
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/10/60-09/02/66	12	0.02	0.021	0.032	0.013	0.	0.006	0.013	0.016	0.025	0.03
00440	BICARBONATE ION (MG/L AS HCO3)	10/10/60-09/02/66	12	42.5	43.25	52.	34.	51.841	7.2	34.3	37.	51.5	52.
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/10/60-09/02/66	12	38.5	36.75	44.	28.	38.386	6.196	28.3	30.25	42.	43.7
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/10/60-09/02/66	12	1.	1.583	7.	0.	3.902	1.975	0.	0.25	2.5	5.8
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/10/60-09/02/66	12	3.6	3.558	6.5	2.2	1.561	1.249	2.2	2.3	4.2	5.87
00931	SODIUM ADSORPTION RATIO	10/10/60-09/02/66	12	0.3	0.275	0.4	0.2	0.006	0.075	0.2	0.2	0.3	0.4
00940	CHLORIDE,TOTAL IN WATER MG/L	10/10/60-09/02/66	12	3.	3.417	7.	2.	1.902	1.379	2.	3.	3.75	6.4
01020	BORON, DISSOLVED (UG/L AS B)	10/10/60-09/02/66	12	0.	16.667	100.	0.	1515.152	38.925	0.	0.	0.	100.

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

Annual Analysis for 1964 - Station WHIS0003

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060	FLOW, STREAM, MEAN DAILY CFS	10/10/60-09/02/66	12	123.5	234.25	792.	54.	74194.568	272.387	54.	58.	316.25	789.3
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/10/60-09/02/66	12	96.5	95.75	102.	90.	14.205	3.769	90.3	92.	98.75	101.1
00400	PH (STANDARD UNITS)	10/10/60-09/02/66	12	7.95	7.975	8.2	7.9	0.009	0.097	7.9	7.9	8.	8.17
00400	CONVERTED PH (STANDARD UNITS)	10/10/60-09/02/66	12	7.947	7.966	8.2	7.9	0.009	0.097	7.9	7.9	8.	8.17
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/10/60-09/02/66	12	0.011	0.011	0.013	0.006	0.	0.002	0.007	0.01	0.013	0.013
00440	BICARBONATE ION (MG/L AS HCO3)	10/10/60-09/02/66	12	50.5	50.25	55.	46.	11.477	3.388	46.	46.5	53.75	54.7
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/10/60-09/02/66	12	43.5	43.167	47.	40.	5.242	2.29	40.	41.	44.75	46.7
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/10/60-09/02/66	12	2.	2.	4.	0.	1.091	1.044	0.3	1.25	2.75	3.7
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/10/60-09/02/66	12	2.95	3.092	3.9	2.4	0.223	0.472	2.49	2.8	3.45	3.9
00931	SODIUM ADSORPTION RATIO	10/10/60-09/02/66	12	0.2	0.208	0.3	0.1	0.003	0.051	0.13	0.2	0.2	0.3
00940	CHLORIDE,TOTAL IN WATER MG/L	10/10/60-09/02/66	12	2.	2.5	4.	1.	0.818	0.905	1.3	2.	3.	4.
01020	BORON, DISSOLVED (UG/L AS B)	10/10/60-09/02/66	12	0.	16.667	100.	0.	1515.152	38.925	0.	0.	0.	100.

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

Annual Analysis for 1965 - Station WHIS0003

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060	FLOW, STREAM, MEAN DAILY CFS	10/10/60-09/02/66	12	85.	117.	466.	50.	13340.727	115.502	50.3	56.25	115.75	376.9
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/10/60-09/02/66	12	90.	87.667	96.	71.	73.697	8.585	71.6	81.75	94.75	95.7
00400	PH (STANDARD UNITS)	10/10/60-09/02/66	12	7.95	7.892	8.2	7.4	0.068	0.261	7.43	7.725	8.1	8.2
00400	CONVERTED PH (STANDARD UNITS)	10/10/60-09/02/66	12	7.947	7.814	8.2	7.4	0.075	0.273	7.43	7.725	8.1	8.2
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/10/60-09/02/66	12	0.011	0.015	0.04	0.006	0.	0.011	0.006	0.008	0.019	0.037
00440	BICARBONATE ION (MG/L AS HCO3)	10/10/60-09/02/66	12	44.5	43.917	52.	32.	49.538	7.038	32.9	37.	51.	52.
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/10/60-09/02/66	12	38.	37.667	54.	26.	63.879	7.992	26.	31.25	42.75	51.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/10/60-09/02/66	12	1.	1.833	11.	0.	9.061	3.01	0.	0.	2.	8.3
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/10/60-09/02/66	12	3.35	3.542	4.4	2.9	0.339	0.582	2.9	3.	4.175	4.37
00931	SODIUM ADSORPTION RATIO	10/10/60-09/02/66	12	0.2	0.25	0.4	0.2	0.005	0.067	0.2	0.2	0.3	0.37
00940	CHLORIDE,TOTAL IN WATER MG/L	10/10/60-09/02/66	12	2.	1.917	2.	1.	0.083	0.289	1.3	2.	2.	2.
01020	BORON, DISSOLVED (UG/L AS B)	10/10/60-09/02/66	12	0.	16.667	100.	0.	1515.152	38.925	0.	0.	0.	100.

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

Annual Analysis for 1966 - Station WHIS0003

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060	FLOW, STREAM, MEAN DAILY CFS	10/10/60-09/02/66	8	71.	256.25	1080.	37.	142045.071	376.889	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/10/60-09/02/66	8	86.5	82.5	98.	58.	211.714	14.55	**	**	**	**
00400	PH (STANDARD UNITS)	10/10/60-09/02/66	8	7.8	7.813	8.	7.6	0.024	0.155	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/10/60-09/02/66	8	7.789	7.789	8.	7.6	0.025	0.157	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/10/60-09/02/66	8	0.016	0.016	0.025	0.01	0.	0.006	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/10/60-09/02/66	8	41.5	39.	50.	16.	128.286	11.326	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/10/60-09/02/66	8	34.5	33.125	42.	21.	58.411	7.643	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/10/60-09/02/66	8	0.5	1.375	8.	0.	7.411	2.722	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/10/60-09/02/66	8	3.8	3.875	4.6	3.2	0.194	0.44	**	**	**	**
00931	SODIUM ADSORPTION RATIO	10/10/60-09/02/66	8	0.3	0.313	0.4	0.2	0.004	0.064	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/10/60-09/02/66	8	2.	2.088	4.	0.8	1.084	1.041	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	10/10/60-09/02/66	8	0.	0.	0.	0.	0.	0.	**	**	**	**

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

Station Inventory for Station: WHIS0004

NPS Station ID: WHIS0004 | LAT/LON: 40.514059/-122.523699 | Agency: 11NPSWRD | Date Created: 05/30/98
Location: CLEAR CREEK AT IGO GAGE (PLACER BRIDGE) | FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): WHIS_CDWR_03
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 18020112 | Depth of Water: 0 | Aquifer:
Major Basin: CALIFORNIA | Elevation: 0 | Water Body Id:
Minor Basin: SACRAMENTO RIVER | ECO Region:
RF1 Index: 18020112 | RF1 Mile Point: 0.000 | Distance from RF1: 0.80 | On/Off RF1:
RF3 Index: 18010211001600.95 | RF3 Mile Point: 5.98 | Distance from RF3: 0.04 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE IGO CALIFORNIA-SHASTA COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS DESCRIBED BY THE CALIFORNIA DEPARTMENT OF WATER RESOURCES (CDWR) AS "CLEAR CREEK AT IGO GAGE (PLACER BRIDGE)" AND IS LOCATED OUTSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA ARE FROM THE CDWR'S DATABASE AND ARE RELATED TO A STUDY OF THE CLEAR CREEK BASIN. THE STUDY BEGAN IN 1997 AND WILL CONTINUE FOR SEVERAL YEARS. FOR MORE INFORMATION ON THE DATA CONTACT THE CDWR; NORTHERN DIVISION: 2440 MAIN STREET; RED BLUFF CALIFORNIA 96080 (TEL 916-529-7300). FOR MORE INFORMATION ON THE WHISKEYTOWN UNIT OF THE PARK CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA: P.O. BOX 188; WHISKEYTOWN CALIFORNIA 96095 (TEL 916-241-6584). THE DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0004

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/97-01/05/98	4	10.75	10.275	12.3	7.3	4.669	2.161	**	**	**	**
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	10/07/97-01/05/98	4	51.35	50.475	54.1	45.1	15.123	3.889	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/07/97-01/05/98	4	85.	91.5	113.	83.	207.	14.387	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/07/97-01/05/98	4	86.	85.5	87.	83.	3.	1.732	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	10/07/97-01/05/98	3	11.3	11.5	12.6	10.6	1.03	1.015	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	10/07/97-01/05/98	4	7.4	7.45	7.7	7.3	0.03	0.173	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	10/07/97-01/05/98	4	7.4	7.427	7.7	7.3	0.031	0.175	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/07/97-01/05/98	4	0.04	0.037	0.05	0.02	0.	0.013	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/07/97-01/05/98	4	37.5	39.75	48.	36.	32.25	5.679	**	**	**	**
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	11/14/97-01/05/98	3	4.	4.333	6.	3.	2.333	1.528	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	11/14/97-01/05/98	3	0.602	0.619	0.778	0.477	0.023	0.151	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			4.16								
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	10/07/97-01/05/98	4	2.2	2.25	3.6	1.	1.137	1.066	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0004

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	3	0	0.00	1	0	0.00	2	0	0.00						
00406	PH, FIELD	Fresh Chronic	9.	4	0	0.00	1	0	0.00	3	0	0.00						
		Other-Lo Lim.	6.5	4	0	0.00	1	0	0.00	3	0	0.00						
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	Other-Hi Lim.	200.	3	0	0.00				3	0	0.00						
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	4	0	0.00	1	0	0.00	3	0	0.00						

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

Station Inventory for Station: WHIS0005

NPS Station ID: WHIS0005
LAT/LON: 40.572615/-122.522338
Agency: 11NPSWRD
Date Created: 04/10/99
Location: SALT CREEK AT BUCK HOLLOW
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): WHIS_NPS_32
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112
Depth of Water: 0
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112
RF1 Mile Point: 0.000
Distance from RF1: 0.80
On/Off RF1:
RF3 Index: 18010211001600.95
RF3 Mile Point: 5.98
Distance from RF3: 0.04
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE IGO CA-SHASTA COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE WAS DESCRIBED BY THE NPS AS "SALT CREEK; AT BUCK HOLLOW" INSIDE OF THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA WERE FROM MISCELLANEOUS PAPERS IN A BROWN FOLDER LABELED "WATER QUALITY." THE FOLDER WAS FROM THE PARK. THE LOCATION OF THE STATION WAS ESTIMATED USING SITE DESCRIPTIONS. LATITUDE AND LONGITUDE VALUES WERE OBTAINED BY DIGITIZING A POINT MARKED ON A QUADRANGLE. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; PO BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NPS WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/03/84-08/03/84	1	31.	31.	31.	31.	0.	0.	**	**	**	**
00032	CLOUD COVER (PERCENT)	08/03/84-08/03/84	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00035	WIND VELOCITY (MILES PER HOUR)	08/03/84-08/03/84	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00045	PRECIPITATION, TOTAL (INCHES PER DAY)	08/03/84-08/03/84	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/03/84-08/03/84	1	0.	0.	0.	0.	0.	0.	**	**	**	**

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

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

Station Inventory for Station: WHIS0006

NPS Station ID: WHIS0006
LAT/LON: 40.579448/-122.537782
Agency: 21CAL-1
Date Created: 04/26/86
Location: CLEAR C A NEED CAMP
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): A3613700
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112
Depth of Water: 0
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER BASIN
ECO Region:
RF1 Index: 18020112004
RF1 Mile Point: 5.860
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 18020113000518.50
RF3 Mile Point: 19.53
Distance from RF3: 0.02
On/Off RF3:
Description:
CLEAR C A NEED CAMP

Parameter Inventory for Station: WHIS0006

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: WHIS0007

NPS Station ID: WHIS0007
LAT/LON: 40.579559/-122.537616
Agency: 11NPSWRD
Date Created: 05/30/98
Location: CLEAR CREEK BELOW N.E.E.D. CAMP
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): WHIS_CDWR_04
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112
Depth of Water: 0
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112
RF1 Mile Point: 0.000
Distance from RF1: 0.80
On/Off RF1:
RF3 Index: 18010211001600.95
RF3 Mile Point: 5.98
Distance from RF3: 0.04
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE IGO CALIFORNIA-SHASTA COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS DESCRIBED BY THE CALIFORNIA DEPARTMENT OF WATER RESOURCES (CDWR) AS "CLEAR CREEK BELOW N.E.E.D. CAMP" AND IS LOCATED INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA ARE FROM THE CDWR'S DATABASE AND RELATED TO A STUDY OF THE CLEAR CREEK BASIN STARTED IN 1997 THAT WILL CONTINUE FOR SEVERAL YEARS. FOR MORE INFORMATION ON THE DATA CONTACT THE CDWR; NORTHERN DIVISION: 2440 MAIN STREET; RED BLUFF CALIFORNIA 96080 (TEL 916-529-7300). FOR MORE INFORMATION ON THE WHISKEYTOWN UNIT OF THE PARK CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA: P.O. BOX 188; WHISKEYTOWN CALIFORNIA 96095 (TEL 916-241-6584). THE DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0007

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/97-01/06/98	4	10.9	10.35	13.1	6.5	7.83	2.798	**	**	**	**
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	10/07/97-01/06/98	4	51.6	50.625	55.6	43.7	25.409	5.041	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/07/97-01/06/98	4	83.	83.	86.	80.	6.	2.449	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/07/97-01/06/98	4	82.5	82.25	85.	79.	6.25	2.5	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	10/07/97-01/06/98	4	10.25	10.55	11.8	9.9	0.737	0.858	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	10/07/97-01/06/98	4	7.25	7.275	7.4	7.2	0.009	0.096	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	10/07/97-01/06/98	4	7.247	7.267	7.4	7.2	0.009	0.096	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/07/97-01/06/98	4	0.057	0.054	0.063	0.04	0.	0.011	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/07/97-01/06/98	4	37.5	37.5	40.	35.	5.667	2.38	**	**	**	**
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	10/07/97-01/06/98	4	3.5	3.75	5.	3.	0.917	0.957	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	10/07/97-01/06/98	4	0.54	0.564	0.699	0.477	0.012	0.108	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			3.663								
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	10/07/97-01/06/98	4	3.	3.225	5.2	1.7	2.349	1.533	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0007

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	4	0	0.00	1	0	0.00	3	0	0.00						
00406	PH, FIELD	Fresh Chronic	9.	4	0	0.00	1	0	0.00	3	0	0.00						
		Other-Lo Lim.	6.5	4	0	0.00	1	0	0.00	3	0	0.00						
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	Other-Hi Lim.	200.	4	0	0.00	1	0	0.00	3	0	0.00						
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	4	0	0.00	1	0	0.00	3	0	0.00						

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

Station Inventory for Station: WHIS0008

NPS Station ID: WHIS0008 LAT/LON: 40.579559/-122.537642 Agency: 11NPSWRD Date Created: 04/10/99
Location: CLEAR CREEK AT BRIDGE BELOW N.E.E.D. CAMP FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): WHIS_BOR_CCBW
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 Depth of Water: 0 Aquifer:
Major Basin: CALIFORNIA Elevation: 0 Water Body Id:
Minor Basin: SACRAMENTO RIVER ECO Region:
RF1 Index: 18020112 RF1 Mile Point: 0.000 Distance from RF1: 0.80 On/Off RF1:
RF3 Index: 18010211001600.95 RF3 Mile Point: 5.98 Distance from RF3: 0.04 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE IGO CA-SHASTA COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS LOCATED AT THE CLEAR CREEK BRIDGE BELOW THE N.E.E.D. CAMP AND IS INSIDE OF THE WHISKEYTOWN-SHASTA- TRINITY NATIONAL RECREATION AREA BOUNDARIES. DATA WERE COLLECTED BY THE BUREAU OF RECLAMATION (SACRAMENTO CALIFORNIA) IN ORDER TO ESTABLISH A WATER QUALITY BASELINE FOR SOME OF THE RESERVOIRS UNDER ITS MANAGEMENT. FOR MORE INFORMATION ON WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA CONTACT THE CHIEF OF RESOURCES AT P.O. BOX 188; WHISKEYTOWN CA 96095-0188 (TEL. 916-241-6584). 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: WHIS0008

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/18/96-09/16/98	6	89.	83.167	92.	70.	105.367	10.265	**	**	**	**
00335	COD, .025N K2CR2O7 MG/L	11/18/96-11/20/98	7 ##	5.	6.329	14.3	5.	12.356	3.515	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	11/18/96-09/16/98	6	7.725	7.613	8.36	6.53	0.382	0.618	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	11/18/96-09/16/98	6	7.719	7.189	8.36	6.53	0.598	0.773	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/18/96-09/16/98	6	0.019	0.065	0.295	0.004	0.013	0.113	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/18/96-02/18/98	4 ##	2.5	6.625	19.	2.5	68.063	8.25	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	11/18/96-11/20/98	7 ##	0.04	0.046	0.08	0.04	0.	0.015	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	11/18/96-09/16/98	6 ##	0.025	0.036	0.09	0.025	0.001	0.027	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/18/96-09/16/98	6 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	11/20/98-11/20/98	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/05/97-11/20/98	6	36.5	34.167	38.	23.	33.367	5.776	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/05/97-11/20/98	6	4.9	4.983	5.4	4.8	0.054	0.232	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/18/96-11/20/98	7	0.01	0.017	0.04	0.005	0.	0.013	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	06/05/97-11/20/98	6	5.65	5.283	6.4	2.7	1.886	1.373	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	06/05/97-11/20/98	6 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	06/05/97-11/20/98	6	0.45	0.458	0.51	0.42	0.001	0.032	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	11/18/96-11/20/98	7	2.	2.286	6.	1.	2.905	1.704	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	11/18/96-11/20/98	7	2.5	2.271	2.8	1.7	0.206	0.454	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/20/98-11/20/98	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	11/18/96-11/20/98	7 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	11/18/96-11/20/98	7 ##	5.	8.	14.	5.	15.333	3.916	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	11/18/96-11/20/98	7 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01022	BORON, TOTAL (UG/L AS B)	06/05/97-11/20/98	6 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	11/18/96-11/20/98	7 ##	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: WHIS0008

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01034	CHROMIUM, TOTAL (UG/L AS CR)	11/18/96-11/20/98	7 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	11/18/96-11/20/98	7 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	11/18/96-11/20/98	7	300.	560.	1200.	100.	225833.333	475.219	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	11/18/96-11/20/98	7 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01059	THALLIUM, TOTAL (UG/L AS TL)	11/18/96-11/20/98	7 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01062	MOLYBDENUM, TOTAL (UG/L AS MO)	11/18/96-11/20/98	7 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	11/18/96-11/20/98	7 ##	20.	20.	20.	20.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	11/18/96-11/20/98	7 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	11/18/96-11/20/98	7 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01097	ANTIMONY, TOTAL (UG/L AS SB)	11/20/98-11/20/98	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	11/18/96-11/20/98	7	220.	465.714	1300.	50.	218295.238	467.221	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	11/18/96-11/20/98	7 ##	1.	0.771	1.	0.2	0.152	0.39	**	**	**	**
01519	RADIATION, GROSS ALPHA, WHOLE WATER PC/L	11/20/98-11/20/98	1 ##	0.492	0.492	0.492	0.492	0.	0.	**	**	**	**
22708	URANIUM, NATURAL TOTAL MG/L	11/20/98-11/20/98	1 ##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	11/18/96-11/20/98	6	48.	44.5	65.	23.	272.7	16.514	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	11/18/96-09/16/98	6 ##	0.009	0.007	0.01	0.003	0.	0.004	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0008

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00406	PH, FIELD	Fresh Chronic	9.	6	0	0.00	2	0	0.00	3	0	0.00	1	0	0.00			
		Other-Lo Lim.	6.5	6	0	0.00	2	0	0.00	3	0	0.00	1	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	6	0	0.00	2	0	0.00	3	0	0.00	1	0	0.00			
00720	CYANIDE, TOTAL	Fresh Acute	0.022	1	0	0.00				1	0	0.00						
		Drinking Water	0.2	1	0	0.00				1	0	0.00						
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	7	0	0.00	2	0	0.00	4	0	0.00	1	0	0.00			
		Drinking Water	250.	7	0	0.00	2	0	0.00	4	0	0.00	1	0	0.00			
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	7	0	0.00	2	0	0.00	4	0	0.00	1	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00				1	0	0.00						
01002	ARSENIC, TOTAL	Fresh Acute	360.	7	0	0.00	2	0	0.00	4	0	0.00	1	0	0.00			
		Drinking Water	50.	7	0	0.00	2	0	0.00	4	0	0.00	1	0	0.00			
01007	BARIUM, TOTAL	Drinking Water	2000.	7	0	0.00	2	0	0.00	4	0	0.00	1	0	0.00			
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	7	0	0.00	2	0	0.00	4	0	0.00	1	0	0.00			
		Drinking Water	4.	7	0	0.00	2	0	0.00	4	0	0.00	1	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	7	0	0.00	2	0	0.00	4	0	0.00	1	0	0.00			
		Drinking Water	5.	7	0	0.00	2	0	0.00	4	0	0.00	1	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	7	0	0.00	2	0	0.00	4	0	0.00	1	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	7	0	0.00	2	0	0.00	4	0	0.00	1	0	0.00			
		Drinking Water	1300.	7	0	0.00	2	0	0.00	4	0	0.00	1	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	7	0	0.00	2	0	0.00	4	0	0.00	1	0	0.00			
		Drinking Water	15.	7	0	0.00	2	0	0.00	4	0	0.00	1	0	0.00			
01059	THALLIUM, TOTAL	Fresh Acute	1400.	7	0	0.00	2	0	0.00	4	0	0.00	1	0	0.00			
		Drinking Water	2.	7	0	0.00	2	0	0.00	4	0	0.00	1	0	0.00			
01067	NICKEL, TOTAL	Fresh Acute	1400.	7	0	0.00	2	0	0.00	4	0	0.00	1	0	0.00			
		Drinking Water	100.	7	0	0.00	2	0	0.00	4	0	0.00	1	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	7	0	0.00	2	0	0.00	4	0	0.00	1	0	0.00			
		Drinking Water	100.	7	0	0.00	2	0	0.00	4	0	0.00	1	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	7	0	0.00	2	0	0.00	4	0	0.00	1	0	0.00			
		Drinking Water	5000.	7	0	0.00	2	0	0.00	4	0	0.00	1	0	0.00			
01097	ANTIMONY, TOTAL	Fresh Acute	88.	1	0	0.00				1	0	0.00						
		Drinking Water	6.	1	0	0.00				1	0	0.00						
01147	SELENIUM, TOTAL	Fresh Acute	20.	7	0	0.00	2	0	0.00	4	0	0.00	1	0	0.00			
		Drinking Water	50.	7	0	0.00	2	0	0.00	4	0	0.00	1	0	0.00			
22708	URANIUM, NATURAL, TOTAL	Drinking Water	0.02	1	0	0.00				1	0	0.00						
71900	MERCURY, TOTAL	Fresh Acute	2.4	6	0	0.00	2	0	0.00	3	0	0.00	1	0	0.00			
		Drinking Water	2.	6	0	0.00	2	0	0.00	3	0	0.00	1	0	0.00			

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

Station Inventory for Station: WHIS0009

NPS Station ID: WHIS0009 | LAT/LON: 40.579671/-122.537753 | Agency: 11NPSWRD | Date Created: 05/23/98
Location: CLEAR CREEK N.E.E.D. CAMP BRIDGE | FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): WHIS_NPS_03
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 | Depth of Water: 0 | Aquifer:
Major Basin: CALIFORNIA | Elevation: 0 | Water Body Id:
Minor Basin: SACRAMENTO RIVER | ECO Region:
RF1 Index: 18020112 | RF1 Mile Point: 0.000 | Distance from RF1: 0.80 | On/Off RF1:
RF3 Index: 18010211001600.95 | RF3 Mile Point: 5.98 | Distance from RF3: 0.04 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE IGO CA-SHASTA COUNTY 7.5' SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE WAS DESCRIBED BY THE NPS AS "CLEAR CREEK N.E.E.D. CAMP BRIDGE" AND WAS LOCATED UNDER THE N.E.E.D. CAMP BRIDGE ON PAIGE BAR ROAD INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA WERE COLLECTED FROM APPROXIMATELY 1973 UNTIL 1980 BY PARK PERSONNEL FOR FOURTEEN TOTAL LOCATIONS. THE DATA FOR EACH LOCATION WERE IN SEPARATELY BOUND FILES. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; PO BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NPS WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0009

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/02/73-07/13/84	85	12.	11.987	20.	5.6	10.086	3.176	8.	9.4	14.	16.04
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/02/73-07/13/84	84	21.	20.087	36.7	6.1	67.143	8.194	9.	13.	26.5	31.
00032	CLOUD COVER (PERCENT)	07/18/80-07/13/84	2	50.	50.	100.	0.	5000.	70.711	**	**	**	**
00035	WIND VELOCITY (MILES PER HOUR)	07/18/80-07/13/84	2	4.	4.	5.	3.	2.	1.414	**	**	**	**
00045	PRECIPITATION, TOTAL (INCHES PER DAY)	07/18/80-07/13/84	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	07/02/73-06/14/79	56	50.	56.661	99.	12.	368.046	19.185	40.6	47.25	64.5	88.6
00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/02/73-01/17/80	82	3.5	6.933	49.	0.	106.019	10.297	0.	1.	8.25	20.
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/02/73-07/13/84	80	81.	80.975	150.	45.	308.075	17.552	60.1	72.	86.75	97.8
00300p	OXYGEN, DISSOLVED MG/L	07/02/73-07/13/84	84	10.95	11.029	14.	9.	0.944	0.971	9.8	10.4	11.6	12.2
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/02/73-01/17/80	82	0.3	0.813	7.	0.04	2.306	1.519	0.135	0.238	0.5	1.73
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/05/74-08/15/76	30	1.525	1.792	6.	0.11	1.565	1.251	0.687	0.933	2.225	3.41
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	07/02/73-08/15/76	46	0.05	0.114	1.5	0.02	0.053	0.229	0.02	0.04	0.085	0.236
00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/02/73-01/17/80	82	35.	35.402	60.	10.	97.7	9.884	21.5	30.	40.	50.

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

EPA Water Quality Criteria Analysis for Station: WHIS0009

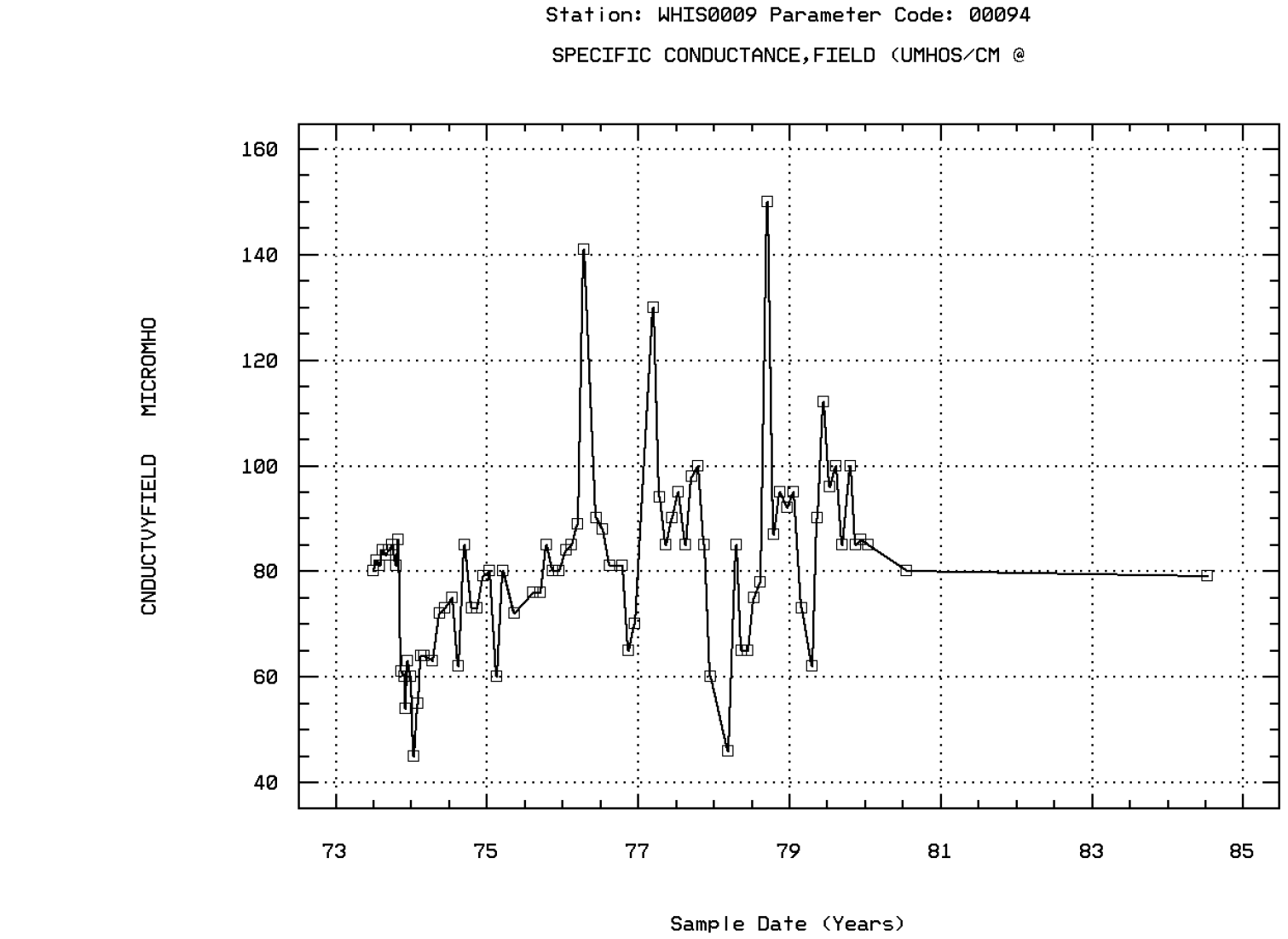
Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	82	0	0.00	39	0	0.00	25	0	0.00	18	0	0.00			

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

EPA Water Quality Criteria Analysis for Station: WHIS0009

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	84	0	0.00	41	0	0.00	26	0	0.00	17	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	82	0	0.00	39	0	0.00	25	0	0.00	18	0	0.00			

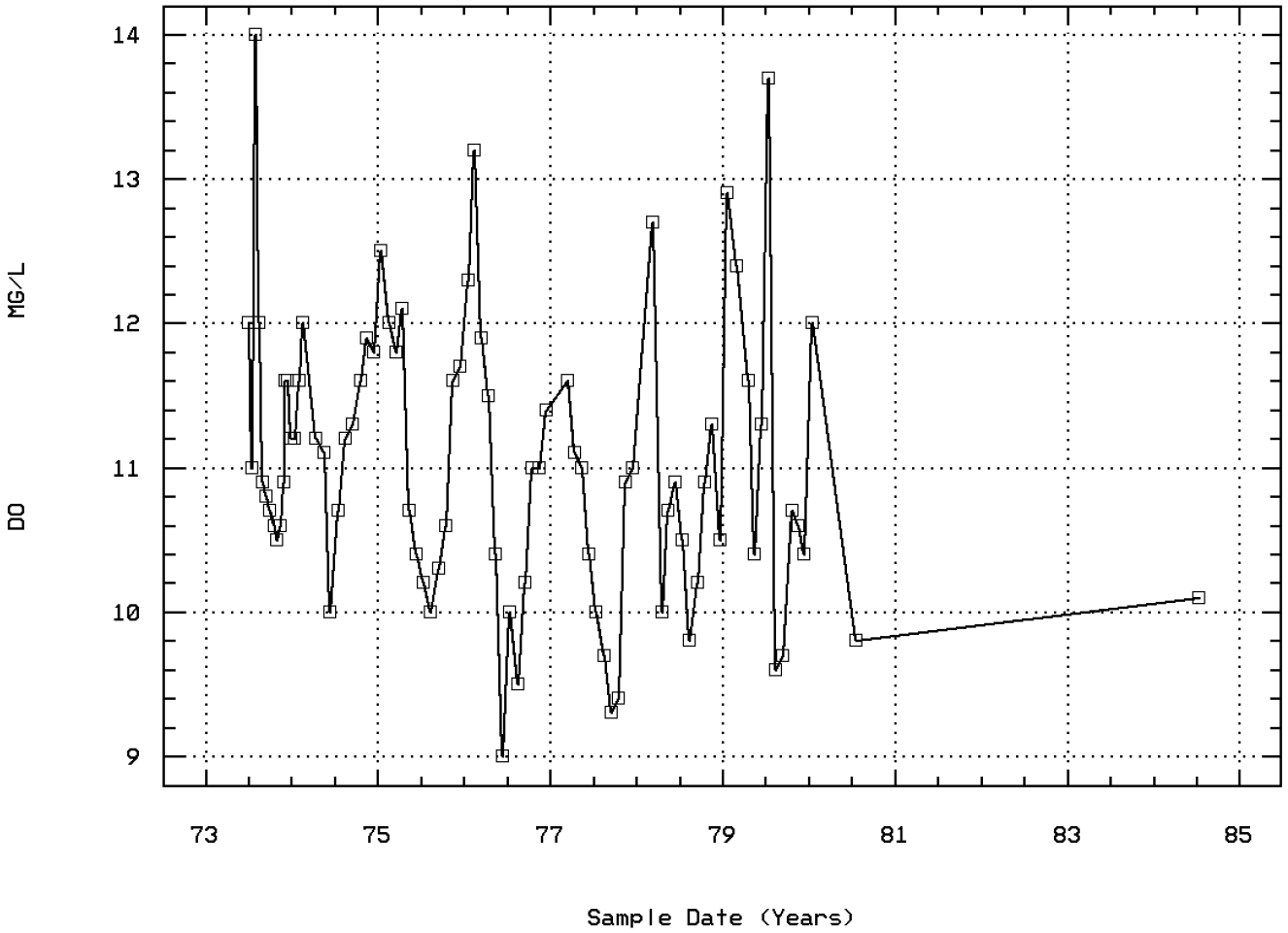
& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter



CLEAR CREEK N.E.E.D. CAMP BRIDGE

Station: WHIS0009 Parameter Code: 00300

OXYGEN, DISSOLVED



CLEAR CREEK N.E.E.D. CAMP BRIDGE

Annual Analysis for 1973 - Station WHIS0009

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/02/73-07/13/84	14	11.65	12.379	16.7	7.8	9.696	3.114	8.6	9.4	15.725	16.4
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/02/73-07/13/84	14	18.05	18.643	31.7	6.1	87.153	9.336	7.2	9.85	29.025	31.15
00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/02/73-01/17/80	13	5.	7.231	25.	2.	51.026	7.143	2.	3.	8.	23.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/02/73-07/13/84	14	81.	74.571	86.	54.	140.11	11.837	57.	60.75	84.	85.5
00300	OXYGEN, DISSOLVED MG/L	07/02/73-07/13/84	14	10.95	11.314	14.	10.5	0.854	0.924	10.55	10.675	11.7	13.
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/02/73-01/17/80	13	3.	3.192	7.	0.04	8.056	2.838	0.044	0.2	6.5	7.
00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/02/73-01/17/80	13	35.	31.923	40.	20.	52.244	7.228	20.	25.	37.5	40.

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

Annual Analysis for 1974 - Station WHIS0009

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/02/73-07/13/84	13	11.	11.077	15.	8.	4.804	2.192	8.	9.2	12.5	14.6
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/02/73-07/13/84	13	21.	17.792	25.	9.	36.574	6.048	9.4	11.8	23.	24.6
00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/02/73-01/17/80	13	17.	18.615	49.	1.	249.423	15.793	1.4	4.	29.	47.4
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/02/73-07/13/84	13	72.	67.923	85.	45.	111.744	10.571	49.	62.5	74.	82.6
00300	OXYGEN, DISSOLVED MG/L	07/02/73-07/13/84	12	11.25	11.3	12.	10.	0.309	0.556	10.21	11.125	11.75	11.97
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/02/73-01/17/80	13	0.2	0.265	0.7	0.1	0.027	0.165	0.1	0.15	0.35	0.58
00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/02/73-01/17/80	13	30.	26.923	35.	10.	68.91	8.301	10.	25.	32.5	35.

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

Annual Analysis for 1975 - Station WHIS0009

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/02/73-07/13/84	12	10.5	10.833	14.	6.	9.97	3.157	6.	8.25	14.	14.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/02/73-07/13/84	12	18.	17.25	29.	8.	63.477	7.967	8.	9.	24.75	28.7
00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/02/73-01/17/80	12	3.	4.35	15.	0.	17.434	4.175	0.	2.05	5.75	13.2
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/02/73-07/13/84	9	80.	76.556	85.	60.	51.778	7.196	60.	74.	80.	85.
00300	OXYGEN, DISSOLVED MG/L	07/02/73-07/13/84	12	11.15	11.158	12.5	10.	0.763	0.873	10.06	10.325	11.95	12.38
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/02/73-01/17/80	12	0.3	0.346	0.5	0.25	0.007	0.086	0.25	0.3	0.4	0.5
00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/02/73-01/17/80	12	35.	34.583	50.	20.	83.902	9.16	20.	30.	40.	48.5

** - 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 1976 - Station WHIS0009

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/02/73-07/13/84	12	10.5	11.083	16.	7.	8.265	2.875	7.3	9.	14.	15.4
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/02/73-07/13/84	12	19.	20.917	35.	12.	59.356	7.704	12.6	14.	28.75	33.8
00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/02/73-01/17/80	12	1.5	7.358	49.	0.	192.032	13.858	0.	0.	9.	38.2
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/02/73-07/13/84	10	84.5	87.4	141.	65.	420.711	20.511	65.5	78.25	89.25	135.9
00300	OXYGEN, DISSOLVED MG/L	07/02/73-07/13/84	12	11.	10.95	13.2	9.	1.452	1.205	9.15	10.05	11.8	12.93
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/02/73-01/17/80	12	0.25	0.333	0.9	0.1	0.053	0.231	0.106	0.178	0.4	0.81
00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/02/73-01/17/80	12	42.5	44.	60.	35.	42.909	6.551	36.5	40.	47.25	57.

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0009

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/02/73-07/13/84	10	13.	13.1	16.	9.	7.433	2.726	9.	11.25	16.	16.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/02/73-07/13/84	10	25.	24.5	35.	11.	62.5	7.906	11.4	18.	31.5	34.8
00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/02/73-01/17/80	10	2.	2.4	10.	0.	10.489	3.239	0.	0.	3.	9.6
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/02/73-07/13/84	10	92.	92.2	130.	60.	303.511	17.422	62.5	85.	98.5	127.
00300	OXYGEN, DISSOLVED MG/L	07/02/73-07/13/84	10	10.65	10.44	11.6	9.3	0.638	0.799	9.31	9.625	11.025	11.55
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/02/73-01/17/80	10	0.3	0.34	0.7	0.1	0.027	0.165	0.11	0.275	0.425	0.68
00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/02/73-01/17/80	10	47.5	44.	55.	20.	98.889	9.944	22.	40.	50.	54.5

** - 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 1978 - Station WHIS0009

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/02/73-07/13/84	10	12.5	12.6	20.	7.	11.822	3.438	7.3	10.	14.	19.4
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/02/73-07/13/84	9	24.	20.667	30.	11.	45.75	6.764	11.	14.	26.	30.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/02/73-01/17/80	10 ##	0.	1.7	5.	0.	5.567	2.359	0.	0.	5.	5.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/02/73-07/13/84	10	81.5	83.8	150.	46.	759.289	27.555	47.9	65.	92.75	144.5
00300	OXYGEN, DISSOLVED MG/L	07/02/73-07/13/84	10	10.6	10.75	12.7	9.8	0.672	0.82	9.82	10.15	11.	12.56
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/02/73-01/17/80	10	0.3	0.33	0.4	0.2	0.005	0.067	0.21	0.3	0.4	0.4
00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/02/73-01/17/80	10	32.5	32.3	50.	20.	64.011	8.001	20.5	27.25	35.	48.5

** - 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 1979 - Station WHIS0009

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/02/73-07/13/84	11	12.2	13.1	19.4	7.	14.058	3.749	7.6	10.6	16.7	18.96
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/02/73-07/13/84	11	20.	22.173	36.7	9.	95.626	9.779	9.4	12.2	32.2	36.02
00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/02/73-01/17/80	11	4.	3.727	8.	0.	7.418	2.724	0.	2.	5.	8.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/02/73-07/13/84	11	90.	89.455	112.	62.	188.073	13.714	64.2	85.	100.	109.6
00300	OXYGEN, DISSOLVED MG/L	07/02/73-07/13/84	11	10.7	11.209	13.7	9.6	1.745	1.321	9.62	10.4	12.4	13.54
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/02/73-01/17/80	11	0.4	0.545	1.1	0.3	0.063	0.25	0.32	0.4	0.7	1.06
00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/02/73-01/17/80	11	32.	35.636	50.	25.	75.455	8.686	25.	30.	45.	49.

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

Annual Analysis for 1980 - Station WHIS0009

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/02/73-07/13/84	2	9.75	9.75	13.9	5.6	34.445	5.869	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/02/73-07/13/84	2	15.55	15.55	24.4	6.7	156.645	12.516	**	**	**	**
00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/02/73-01/17/80	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/02/73-07/13/84	2	82.5	82.5	85.	80.	12.5	3.536	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/02/73-07/13/84	2	10.9	10.9	12.	9.8	2.42	1.556	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/02/73-01/17/80	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/02/73-01/17/80	1	40.	40.	40.	40.	0.	0.	**	**	**	**

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

Annual Analysis for 1984 - Station WHIS0009

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/02/73-07/13/84	1	18.	18.	18.	18.	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/02/73-07/13/84	1	31.	31.	31.	31.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/02/73-07/13/84	1	79.	79.	79.	79.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/02/73-07/13/84	1	10.1	10.1	10.1	10.1	0.	0.	**	**	**	**

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

Seasonal Analysis for Season #1: 6/01 to 11/09 - Station WHIS0009

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/02/73-07/13/84	41	14.	14.563	20.	10.	4.482	2.117	12.	13.6	16.	17.1
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/02/73-07/13/84	41	25.	25.62	36.7	12.2	35.926	5.994	17.2	22.2	30.3	33.24
00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/02/73-01/17/80	39	3.	6.41	49.	0.	89.617	9.467	0.	1.	8.	20.
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/02/73-07/13/84	38	84.	85.947	150.	62.	211.943	14.558	73.	78.75	90.	100.
00300p	OXYGEN, DISSOLVED MG/L	07/02/73-07/13/84	41	10.5	10.598	14.	9.	1.031	1.016	9.52	10.	10.95	11.92
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/02/73-01/17/80	39	0.4	1.245	7.	0.04	4.424	2.103	0.1	0.3	0.6	6.
00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/02/73-01/17/80	39	35.	37.128	55.	20.	57.167	7.561	30.	30.	40.	50.

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

Seasonal Analysis for Season #2: 11/10 to 2/20 - Station WHIS0009

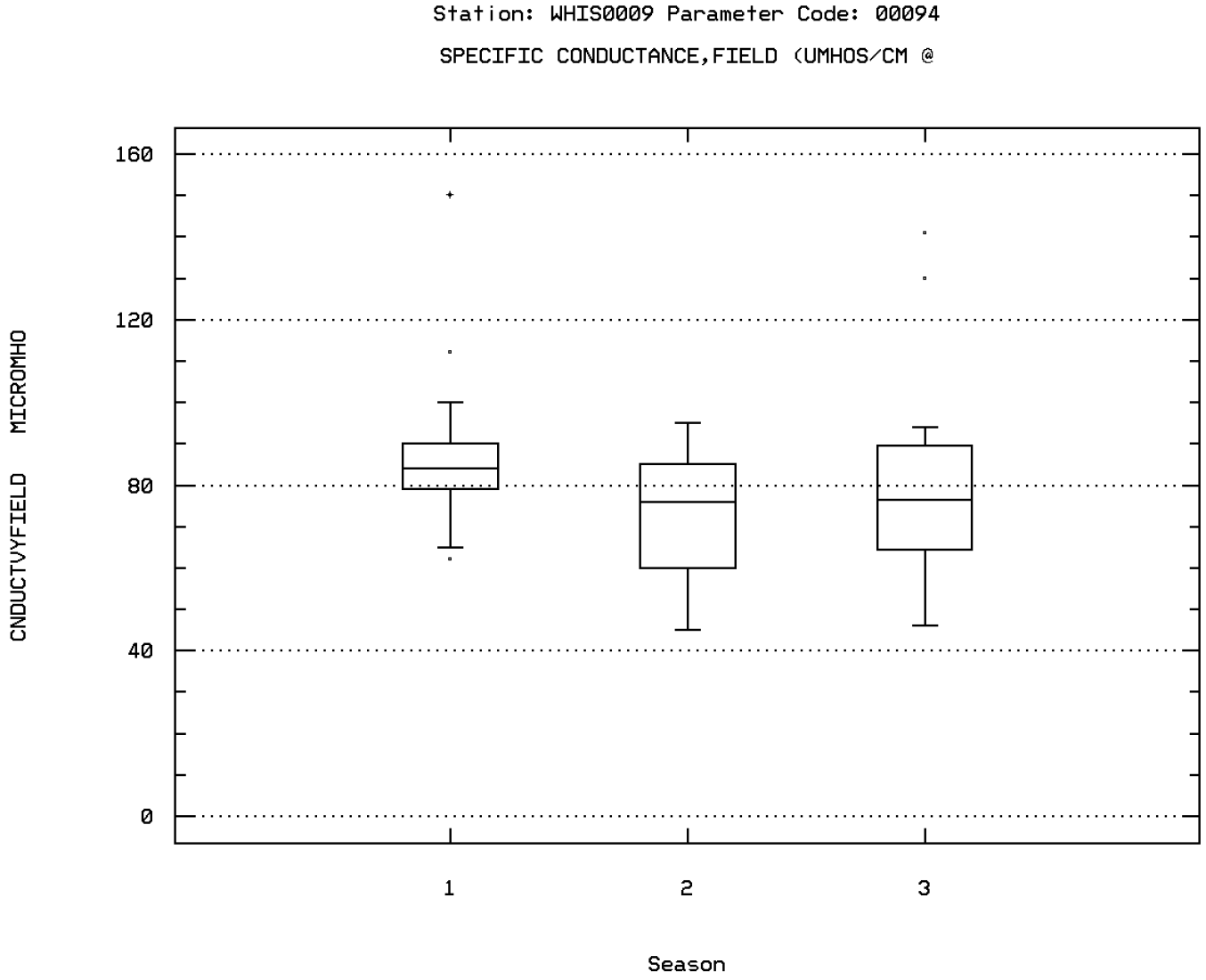
Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/02/73-07/13/84	26	9.	8.815	12.	5.6	2.915	1.707	6.	7.6	10.	11.02
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/02/73-07/13/84	26	11.	12.508	23.	6.1	20.692	4.549	7.61	9.	16.775	19.2
00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/02/73-01/17/80	25	4.	6.728	49.	0.	118.966	10.907	0.	0.	9.5	18.6
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/02/73-07/13/84	26	76.	73.115	95.	45.	196.826	14.029	54.7	60.	85.	92.9
00300p	OXYGEN, DISSOLVED MG/L	07/02/73-07/13/84	26	11.6	11.527	13.2	10.4	0.513	0.716	10.57	10.975	12.	12.62
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/02/73-01/17/80	25	0.4	0.5	2.	0.1	0.173	0.416	0.15	0.225	0.6	1.04
00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/02/73-01/17/80	25	35.	32.68	50.	10.	124.977	11.179	16.	25.	40.	47.

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

Seasonal Analysis for Season #3: 2/21 to 5/31 - Station WHIS0009

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/02/73-07/13/84	18	11.	10.7	13.	8.	1.855	1.362	8.9	9.75	12.	12.1
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/02/73-07/13/84	17	15.	18.335	31.	9.	51.111	7.149	9.	12.5	25.	30.2
00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/02/73-01/17/80	18	4.5	8.35	45.	0.	134.064	11.579	0.27	2.	9.	29.7
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/02/73-07/13/84	16	76.5	81.938	141.	46.	600.996	24.515	57.2	64.25	89.75	133.3
00300p	OXYGEN, DISSOLVED MG/L	07/02/73-07/13/84	17	11.2	11.306	12.7	10.	0.553	0.744	10.32	10.7	11.85	12.46
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/02/73-01/17/80	18	0.3	0.314	0.7	0.2	0.018	0.135	0.2	0.2	0.325	0.52
00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/02/73-01/17/80	18	32.5	35.444	60.	20.	143.556	11.981	20.	25.	48.5	51.

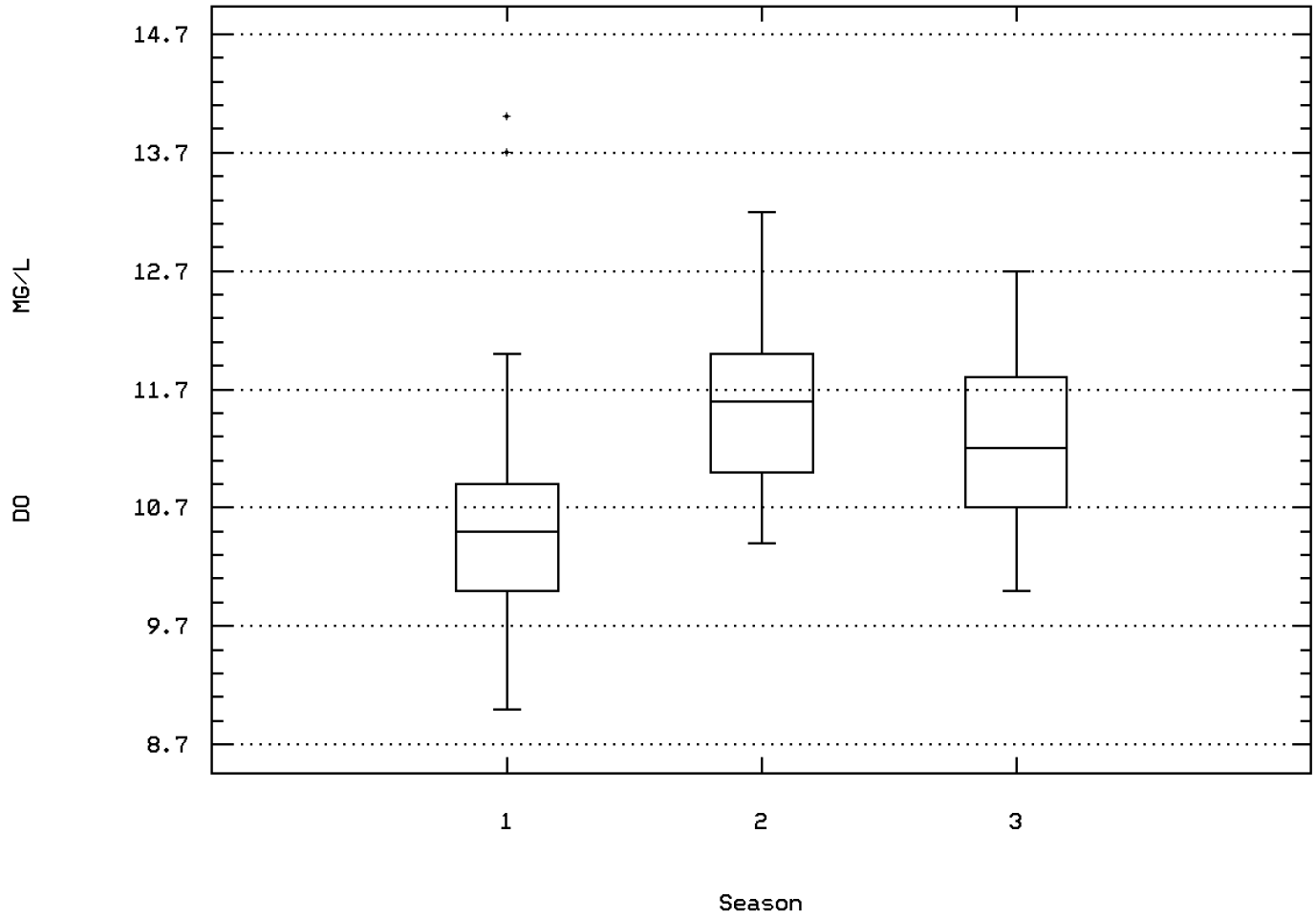
** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot



CLEAR CREEK N.E.E.D. CAMP BRIDGE

Station: WHIS0009 Parameter Code: 00300

OXYGEN, DISSOLVED



CLEAR CREEK N.E.E.D. CAMP BRIDGE

Station Inventory for Station: WHIS0010

NPS Station ID: WHIS0010 LAT/LON: 40.579976/-122.534199 Agency: 11NPSWRD Date Created: 04/10/99
Location: OROFINO GULCH; AT CONFLUENCE OF ROAD FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): WHIS_NPS_24
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 Depth of Water: 0 Aquifer:
Major Basin: CALIFORNIA Elevation: 0 Water Body Id:
Minor Basin: SACRAMENTO RIVER ECO Region:
RF1 Index: 18020112 RF1 Mile Point: 0.000 Distance from RF1: 0.80 On/Off RF1:
RF3 Index: 18010211001600.95 RF3 Mile Point: 5.98 Distance from RF3: 0.04 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE IGO CA 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE WAS DESCRIBED BY THE NPS AS "OROFINO GULCH; AT CONFLUENCE OF ROAD" INSIDE OF THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA WERE FROM MISCELLANEOUS PAPERS IN A BROWN FOLDER LABELED "WATER QUALITY." THE FOLDER WAS FROM THE PARK. THE LOCATION OF THE STATION WAS ESTIMATED USING SITE DESCRIPTIONS. LATITUDE AND LONGITUDE VALUES WERE OBTAINED BY DIGITIZING A POINT MARKED ON A QUADRANGLE. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; PO BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NPS WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0010

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/03/84-08/03/84	1	31.	31.	31.	31.	0.	0.	**	**	**	**
00032	CLOUD COVER (PERCENT)	08/03/84-08/03/84	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00035	WIND VELOCITY (MILES PER HOUR)	08/03/84-08/03/84	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00045	PRECIPITATION, TOTAL (INCHES PER DAY)	08/03/84-08/03/84	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/03/84-08/03/84	1	0.	0.	0.	0.	0.	0.	**	**	**	**

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

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

Station Inventory for Station: WHIS0011

NPS Station ID: WHIS0011 LAT/LON: 40.580726/-122.562977 Agency: 11NPSWRD Date Created: 04/10/99
Location: PAIGE BOULDER CK; BELOW LAST CONFL E OF CABIN FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): WHIS_NPS_31
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 Depth of Water: 0 Aquifer:
Major Basin: CALIFORNIA Elevation: 0 Water Body Id:
Minor Basin: SACRAMENTO RIVER ECO Region:
RF1 Index: 18020112 RF1 Mile Point: 0.000 Distance from RF1: 0.80 On/Off RF1:
RF3 Index: 18010211001600.95 RF3 Mile Point: 5.98 Distance from RF3: 0.04 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE IGO CA 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE WAS DESCRIBED BY THE NPS AS "PAIGE BOULDER CREEK; BELOW LAST CONFLUENCE EAST OF PELTIER CONFLUENCE" INSIDE OF THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA WERE FROM MISCELLANEOUS PAPERS IN A BROWN FOLDER LABELED "WATER QUALITY." THE FOLDER WAS FROM THE PARK. THE LOCATION OF THE STATION WAS ESTIMATED USING SITE DESCRIPTIONS. LATITUDE AND LONGITUDE VALUES WERE OBTAINED BY DIGITIZING A POINT MARKED ON A QUADRANGLE. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT THE WHISKEYTOWN-SHASTA- TRINITY NATIONAL RECREATION AREA; PO BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NPS WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/03/84-08/03/84	1	28.	28.	28.	28.	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/03/84-08/03/84	1	24.	24.	24.	24.	0.	0.	**	**	**	**
00032	CLOUD COVER (PERCENT)	08/03/84-08/03/84	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00035	WIND VELOCITY (MILES PER HOUR)	08/03/84-08/03/84	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00045	PRECIPITATION, TOTAL (INCHES PER DAY)	08/03/84-08/03/84	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/03/84-08/03/84	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/03/84-08/03/84	1	50.	50.	50.	50.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	08/03/84-08/03/84	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/03/84-08/03/84	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/03/84-08/03/84	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/03/84-08/03/84	1	0.063	0.063	0.063	0.063	0.	0.	**	**	**	**
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	08/03/84-08/03/84	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0011

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a 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									
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: WHIS0012

NPS Station ID: WHIS0012
LAT/LON: 40.581809/-122.541503
Agency: 11NPSWRD
Date Created: 05/23/98
Location: PAIGE BOULDER CREEK
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): WHIS_NPS_10
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112
Depth of Water: 0
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112
RF1 Mile Point: 0.000
Distance from RF1: 0.80
On/Off RF1:
RF3 Index: 18010211001600.95
RF3 Mile Point: 5.98
Distance from RF3: 0.04
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE IGO CA-SHASTA COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE WAS DESCRIBED BY THE NPS AS "PAIGE BOULDER CREEK" AND WAS LOCATED ON PAIGE BOULDER CREEK UPSTREAM OF THE CONFLUENCE OF PAIGE BOULDER CREEK AND CLEAR CREEK NEXT TO THE N.E.E.D. CAMP INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA WERE COLLECTED FROM APPROXIMATELY 1973 UNTIL 1980 BY PARK PERSONNEL FOR FOURTEEN TOTAL LOCATIONS. THE DATA FOR EACH LOCATION WERE IN SEPARATELY BOUND FILES. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT THE WHISKEYTOWN- SHASTA-TRINITY NATIONAL RECREATION AREA; PO BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NPS WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/02/73-07/18/80	76	12.	12.726	29.	1.	35.508	5.959	5.	8.925	17.	22.2
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/02/73-07/18/80	79	18.	19.441	39.	2.	69.951	8.364	10.	12.	25.	32.
00032	CLOUD COVER (PERCENT)	07/18/80-07/18/80	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00035	WIND VELOCITY (MILES PER HOUR)	07/18/80-07/18/80	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00045	PRECIPITATION, TOTAL (INCHES PER DAY)	07/18/80-07/18/80	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	07/02/73-07/18/80	72	1.	28.854	1070.	0.	16998.691	130.379	0.1	0.3	6.	36.9
00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/02/73-01/17/80	78	2.	5.282	82.	0.	114.517	10.701	0.	0.	6.25	10.1
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/02/73-07/18/80	75	60.	69.92	255.	40.	990.723	31.476	45.6	52.	75.	106.2
00300	OXYGEN, DISSOLVED MG/L	07/02/73-07/18/80	79	10.5	10.557	13.9	6.6	2.33	1.527	8.5	9.4	11.9	12.6
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/02/73-01/17/80	77	0.3	0.672	9.	0.05	1.591	1.261	0.2	0.3	0.4	1.1
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	11/15/73-08/15/76	31	2.2	2.068	5.3	0.	1.331	1.154	0.208	1.39	2.6	2.84
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	07/02/73-08/15/76	42	0.07	0.138	2.2	0.	0.119	0.345	0.023	0.03	0.103	0.161
00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/02/73-01/17/80	78	20.	23.077	60.	10.	111.397	10.554	10.	15.	30.	40.

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

EPA Water Quality Criteria Analysis for Station: WHIS0012

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	78	1	0.01	35	1	0.03	24	0	0.00	19	0	0.00			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	79	0	0.00	36	0	0.00	24	0	0.00	19	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	77	0	0.00	35	0	0.00	23	0	0.00	19	0	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 1973 - Station WHIS0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/02/73-07/18/80	11	12.2	13.973	23.3	8.3	28.95	5.381	8.42	9.4	18.3	22.86
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/02/73-07/18/80	11	20.	18.136	28.9	8.9	63.345	7.959	9.	10.	24.4	28.9
00061	FLOW, STREAM, INSTANTANEOUS CFS	07/02/73-07/18/80	13	0.7	111.71	1070.	0.	86307.901	293.782	0.	0.115	96.5	709.6
00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/02/73-01/17/80	11	6.	7.545	30.	0.	62.673	7.917	0.6	3.	8.	26.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/02/73-07/18/80	11	58.	61.091	108.	41.	319.891	17.885	42.2	50.	68.	100.2
00300	OXYGEN, DISSOLVED MG/L	07/02/73-07/18/80	11	10.1	10.209	11.7	6.6	1.867	1.366	7.24	10.	11.2	11.64
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/02/73-01/17/80	10	2.	2.56	9.	0.05	8.4	2.898	0.05	0.163	4.25	8.6
00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/02/73-01/17/80	11	20.	18.636	30.	10.	25.455	5.045	11.	15.	20.	28.

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

Annual Analysis for 1974 - Station WHIS0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/02/73-07/18/80	13	11.	11.8	17.	6.	16.187	4.023	6.4	8.5	16.	17.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/02/73-07/18/80	13	16.	17.469	28.	11.	32.662	5.715	11.	12.05	22.5	26.8
00061	FLOW, STREAM, INSTANTANEOUS CFS	07/02/73-07/18/80	13	2.	21.523	177.	0.2	2338.562	48.359	0.32	0.55	21.	123.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/02/73-01/17/80	13	1.	2.615	12.	0.	16.09	4.011	0.	0.	3.5	11.2
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/02/73-07/18/80	13	54.	52.846	66.	44.	41.308	6.427	44.4	46.5	56.5	63.6
00300	OXYGEN, DISSOLVED MG/L	07/02/73-07/18/80	13	10.9	10.892	13.	9.4	1.446	1.202	9.44	9.5	11.75	12.84
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/02/73-01/17/80	13	0.3	0.358	0.7	0.2	0.025	0.158	0.2	0.2	0.425	0.66
00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/02/73-01/17/80	13	20.	16.923	30.	10.	35.577	5.965	10.	10.	20.	26.

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/02/73-07/18/80	11	11.	12.545	21.	5.	39.673	6.299	5.	7.	18.	20.8
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/02/73-07/18/80	12	17.5	16.583	32.	7.	50.083	7.077	7.6	10.	19.	29.6
00061	FLOW, STREAM, INSTANTANEOUS CFS	07/02/73-07/18/80	11	2.	21.164	180.	0.007	2840.903	53.3	0.066	0.7	17.	149.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/02/73-01/17/80	12	5.	6.75	33.	0.	81.659	9.037	0.	0.25	9.5	26.1
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/02/73-07/18/80	9	70.	78.111	150.	42.	1134.611	33.684	42.	54.	98.	150.
00300	OXYGEN, DISSOLVED MG/L	07/02/73-07/18/80	12	10.75	10.725	13.4	8.1	3.211	1.792	8.22	9.325	12.375	13.13
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/02/73-01/17/80	12	0.325	0.367	0.7	0.2	0.02	0.142	0.2	0.3	0.475	0.64
00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/02/73-01/17/80	12	20.	21.75	50.	10.	113.114	10.635	10.3	15.	25.	44.

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

Annual Analysis for 1976 - Station WHIS0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/02/73-07/18/80	12	11.	11.833	23.	4.	32.152	5.67	4.3	7.25	16.	21.2
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/02/73-07/18/80	12	19.5	19.75	32.	10.	57.295	7.569	10.	12.75	25.5	31.7
00061	FLOW, STREAM, INSTANTANEOUS CFS	07/02/73-07/18/80	12	0.55	2.108	11.	0.1	10.606	3.257	0.1	0.3	2.	9.5
00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/02/73-01/17/80	12 ##	0.5	9.75	82.	0.	535.841	23.148	0.	0.	8.5	61.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/02/73-07/18/80	11	70.	76.455	135.	47.	621.873	24.937	49.	61.	88.	129.
00300	OXYGEN, DISSOLVED MG/L	07/02/73-07/18/80	12	10.1	10.725	12.8	8.5	2.857	1.69	8.53	9.275	12.55	12.8
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/02/73-01/17/80	12	0.3	0.414	1.8	0.17	0.197	0.444	0.179	0.2	0.4	1.38
00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/02/73-01/17/80	12	20.	25.417	50.	10.	142.992	11.958	11.5	20.	37.5	47.

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

Annual Analysis for 1977 - Station WHIS0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/02/73-07/18/80	8	11.5	13.5	29.	7.	50.286	7.091	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/02/73-07/18/80	8	21.	23.	39.	11.	114.857	10.717	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	07/02/73-07/18/80	6	0.4	1.032	4.	0.09	2.21	1.487	**	**	**	**
00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/02/73-01/17/80	8	2.5	4.625	10.	0.	20.839	4.565	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/02/73-07/18/80	8	85.	83.75	120.	40.	683.929	26.152	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/02/73-07/18/80	8	10.35	10.225	11.9	8.4	1.436	1.199	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/02/73-01/17/80	8	0.35	0.338	0.4	0.2	0.006	0.074	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/02/73-01/17/80	8	30.	27.5	35.	20.	28.571	5.345	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/02/73-07/18/80	9	12.	12.556	24.	1.	56.278	7.502	1.	7.	18.5	24.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/02/73-07/18/80	10	18.5	19.5	33.	2.	83.167	9.12	3.	15.	28.5	32.7
00061	FLOW, STREAM, INSTANTANEOUS CFS	07/02/73-07/18/80	7	0.8	4.586	24.	0.3	75.985	8.717	**	**	**	**
00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/02/73-01/17/80	10 ##	0.	0.4	3.	0.	0.933	0.966	0.	0.	0.25	2.8
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/02/73-07/18/80	10	58.	60.	83.	42.	127.333	11.284	42.8	53.	68.25	81.6
00300	OXYGEN, DISSOLVED MG/L	07/02/73-07/18/80	10	10.6	10.52	13.9	8.1	2.957	1.72	8.11	9.325	11.375	13.7
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/02/73-01/17/80	10	0.3	0.28	0.4	0.2	0.004	0.063	0.2	0.2	0.3	0.39
00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/02/73-01/17/80	10	19.	23.4	50.	10.	171.6	13.1	10.1	14.	32.5	49.

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

Annual Analysis for 1979 - Station WHIS0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/02/73-07/18/80	10	12.1	12.58	22.2	3.3	51.562	7.181	3.36	5.475	20.55	22.2
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/02/73-07/18/80	11	22.	22.4	35.6	5.6	118.762	10.898	6.28	13.	33.9	35.48
00061	FLOW, STREAM, INSTANTANEOUS CFS	07/02/73-07/18/80	8	2.	3.543	17.	0.04	30.528	5.525	**	**	**	**
00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/02/73-01/17/80	11	3.	4.091	21.	0.	34.691	5.89	0.	1.	5.	17.8
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/02/73-07/18/80	11	67.	87.091	255.	40.	3646.691	60.388	42.4	56.	85.	230.
00300	OXYGEN, DISSOLVED MG/L	07/02/73-07/18/80	11	9.5	10.518	12.7	8.3	2.852	1.689	8.44	9.2	12.5	12.66
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/02/73-01/17/80	11	0.4	0.5	1.1	0.3	0.078	0.279	0.3	0.3	0.5	1.08
00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/02/73-01/17/80	11	20.	26.818	45.	20.	86.364	9.293	20.	20.	35.	44.

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

Annual Analysis for 1980 - Station WHIS0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/02/73-07/18/80	2	16.65	16.65	23.3	10.	88.445	9.405	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/02/73-07/18/80	2	23.9	23.9	31.1	16.7	103.68	10.182	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	07/02/73-07/18/80	2	10.35	10.35	20.	0.7	186.245	13.647	**	**	**	**
00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/02/73-01/17/80	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/02/73-07/18/80	2	56.5	56.5	63.	50.	84.5	9.192	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/02/73-07/18/80	2	10.	10.	12.1	7.9	8.82	2.97	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/02/73-01/17/80	1	1.1	1.1	1.1	1.1	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/02/73-01/17/80	1	60.	60.	60.	60.	0.	0.	**	**	**	**

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

Seasonal Analysis for Season #1: 6/01 to 11/09 - Station WHIS0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/02/73-07/18/80	36	17.	17.331	29.	8.9	21.143	4.598	12.	13.225	21.075	23.3
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/02/73-07/18/80	36	24.	25.092	39.	12.8	45.355	6.735	17.43	19.	31.	35.
00061	FLOW, STREAM, INSTANTANEOUS CFS	07/02/73-07/18/80	35	0.5	31.63	1070.	0.	32652.829	180.701	0.021	0.2	1.	2.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/02/73-01/17/80	35	3.	6.914	82.	0.	212.139	14.565	0.	0.	8.	15.6
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/02/73-07/18/80	34	68.5	83.441	255.	47.	1640.375	40.502	52.	58.	105.	132.5
00300	OXYGEN, DISSOLVED MG/L	07/02/73-07/18/80	36	9.45	9.272	11.	6.6	0.763	0.873	8.1	8.525	9.9	10.16
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/02/73-01/17/80	35	0.4	1.029	9.	0.05	3.248	1.802	0.2	0.3	0.6	3.4
00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/02/73-01/17/80	35	20.	22.686	50.	10.	92.869	9.637	10.6	15.	30.	40.

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

Seasonal Analysis for Season #2: 11/10 to 2/20 - Station WHIS0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/02/73-07/18/80	22	7.5	7.014	10.6	1.	7.058	2.657	3.48	5.	9.4	10.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/02/73-07/18/80	24	11.55	11.854	18.	2.	14.857	3.855	6.3	10.	15.	17.1
00061	FLOW, STREAM, INSTANTANEOUS CFS	07/02/73-07/18/80	21	2.	31.648	177.	0.3	3308.504	57.52	0.32	0.65	33.5	165.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/02/73-01/17/80	24	3.5	4.917	33.	0.	49.384	7.027	0.	0.	7.	10.5
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/02/73-07/18/80	24	59.	58.875	88.	40.	169.332	13.013	42.5	47.25	66.75	80.
00300	OXYGEN, DISSOLVED MG/L	07/02/73-07/18/80	24	12.05	11.988	13.9	10.1	0.811	0.9	10.7	11.25	12.575	13.2
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/02/73-01/17/80	23	0.3	0.43	1.1	0.2	0.09	0.301	0.2	0.3	0.4	1.06
00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/02/73-01/17/80	24	20.	21.083	60.	10.	116.428	10.79	10.	15.	20.	35.

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

Seasonal Analysis for Season #3: 2/21 to 5/31 - Station WHIS0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/02/73-07/18/80	18	9.	10.5	18.	6.	12.029	3.468	6.9	7.75	12.75	16.2
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/02/73-07/18/80	19	17.	18.316	32.	9.	54.006	7.349	9.	10.	24.	30.
00061	FLOW, STREAM, INSTANTANEOUS CFS	07/02/73-07/18/80	16	5.5	19.113	180.	0.3	1905.916	43.657	0.44	2.	17.75	70.8
00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/02/73-01/17/80	19	1.	2.737	12.	0.	13.871	3.724	0.	0.	4.	10.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/02/73-07/18/80	17	55.	58.471	100.	40.	244.64	15.641	41.6	48.	65.5	88.
00300	OXYGEN, DISSOLVED MG/L	07/02/73-07/18/80	19	11.1	11.184	12.8	9.4	1.135	1.065	9.4	10.8	12.1	12.8
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/02/73-01/17/80	19	0.3	0.306	0.5	0.17	0.01	0.1	0.2	0.2	0.4	0.4
00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/02/73-01/17/80	19	20.	26.316	50.	10.	135.673	11.648	10.	20.	35.	50.

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

Station Inventory for Station: WHIS0013

NPS Station ID: WHIS0013 LAT/LON: 40.582253/-122.564032 Agency: 11NPSWRD Date Created: 04/10/99
Location: PAIGE BOULDER CREEK; AT PELTIER CONFLUENCE FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): WHIS_NPS_30
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 Depth of Water: 0 Aquifer:
Major Basin: CALIFORNIA Elevation: 0 Water Body Id:
Minor Basin: SACRAMENTO RIVER ECO Region:
RF1 Index: 18020112 RF1 Mile Point: 0.000 Distance from RF1: 0.80 On/Off RF1:
RF3 Index: 18010211001600.95 RF3 Mile Point: 5.98 Distance from RF3: 0.04 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE IGO CA 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE WAS DESCRIBED BY THE NPS AS "PAIGE BOULDER CREEK; AT PELTIER CONFLUENCE" INSIDE OF THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA WERE FROM MISCELLANEOUS PAPERS IN A BROWN FOLDER LABELED "WATER QUALITY." THE FOLDER WAS FROM THE PARK. THE LOCATION OF THE STATION WAS ESTIMATED USING SITE DESCRIPTIONS. LATITUDE AND LONGITUDE VALUES WERE OBTAINED BY DIGITIZING A POINT MARKED ON A QUADRANGLE. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT THE WHISKEYTOWN-SHASTA- TRINITY NATIONAL RECREATION AREA; PO BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NPS WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0013

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/10/84-08/10/84	1	19.	19.	19.	19.	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/10/84-08/10/84	1	28.	28.	28.	28.	0.	0.	**	**	**	**
00032	CLOUD COVER (PERCENT)	08/10/84-08/10/84	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00035	WIND VELOCITY (MILES PER HOUR)	08/10/84-08/10/84	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00045	PRECIPITATION, TOTAL (INCHES PER DAY)	08/10/84-08/10/84	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/10/84-08/10/84	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/10/84-08/10/84	1	38.	38.	38.	38.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	08/10/84-08/10/84	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	08/10/84-08/10/84	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0013

				Total	Exceed	Prop.	6/01-11/09			11/10-2/20			2/21-5/31			n/a		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00	1	0	0.00									
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: WHIS0014

NPS Station ID: WHIS0014
LAT/LON: 40.585559/-122.550281
Agency: 21CAL-1
Date Created: 04/26/86
Location: CLEAR C AB PAIGE BAR
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): A3613800
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112
Depth of Water: 0
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER BASIN
ECO Region:
RF1 Index: 18020112004
RF1 Mile Point: 6.800
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 18020112000404.91
RF3 Mile Point: 5.56
Distance from RF3: 0.04
On/Off RF3:
Description:
CLEAR C AB PAIGE BAR

Parameter Inventory for Station: WHIS0014

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: WHIS0015

NPS Station ID: WHIS0015
LAT/LON: 40.585643/-122.550059
Agency: 11NPSWRD
Date Created: 05/30/98
Location: CLEAR CREEK ABOVE PAIGE BAR
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): WHIS_CDWR_05
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112
Depth of Water: 0
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112
RF1 Mile Point: 0.000
Distance from RF1: 0.80
On/Off RF1:
RF3 Index: 18010211001600.95
RF3 Mile Point: 5.98
Distance from RF3: 0.04
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE IGO CALIFORNIA-SHASTA COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS DESCRIBED BY THE CALIFORNIA DEPARTMENT OF WATER RESOURCES (CDWR) AS "CLEAR CREEK ABOVE PAIGE BAR" AND IS LOCATED INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA ARE FROM THE CDWR'S DATABASE AND ARE RELATED TO A STUDY OF THE CLEAR CREEK BASIN. THE STUDY BEGAN IN 1997 AND THAT WILL CONTINUE FOR SEVERAL YEARS. FOR MORE INFORMATION ON THE DATA CONTACT THE CDWR; NORTHERN DIVISION: 2440 MAIN ST.; RED BLUFF CALIFORNIA 96080 (TEL 916-529-7300). FOR MORE INFORMATION ON THE WHISKEYTOWN UNIT OF THE PARK CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA: P.O. BOX 188; WHISKEYTOWN CALIFORNIA 96095 (TEL 916-241-6584). THE DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0015

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/97-01/06/98	4	11.05	10.425	12.5	7.1	5.516	2.349	**	**	**	**
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	10/07/97-01/06/98	4	51.9	50.775	54.5	44.8	17.796	4.219	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/07/97-01/06/98	4	83.	82.25	83.	80.	2.25	1.5	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/13/97-01/06/98	3	82.	81.667	82.	81.	0.333	0.577	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	10/07/97-01/06/98	4	10.35	10.625	12.	9.8	1.043	1.021	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	10/07/97-01/06/98	4	7.25	7.275	7.4	7.2	0.009	0.096	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	10/07/97-01/06/98	4	7.247	7.267	7.4	7.2	0.009	0.096	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/07/97-01/06/98	4	0.057	0.054	0.063	0.04	0.	0.011	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/13/97-01/06/98	4	37.5	37.75	39.	37.	0.917	0.957	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	10/07/97-12/04/97	3 ##	0.005	0.007	0.01	0.005	0.	0.003	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/07/97-12/04/97	3	0.02	0.017	0.02	0.01	0.	0.006	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/07/97-12/04/97	3 ##	0.1	0.068	0.1	0.005	0.003	0.055	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/13/97-11/13/97	1	37.	37.	37.	37.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/13/97-11/13/97	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/13/97-11/13/97	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	11/13/97-11/13/97	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/13/97-11/13/97	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	11/13/97-11/13/97	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	11/13/97-11/13/97	1	2.	2.	2.	2.	0.	0.	**	**	**	**

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

Parameter Inventory for Station: WHIS0015

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01002	ARSENIC, TOTAL (UG/L AS AS)	10/07/97-11/13/97	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	10/07/97-11/13/97	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	10/07/97-11/13/97	2 ##	3.75	3.75	5.	2.5	3.125	1.768	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	10/07/97-11/13/97	2 ##	1.25	1.25	2.	0.5	1.125	1.061	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	10/07/97-11/13/97	2	346.	346.	522.	170.	61952.	248.902	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	10/07/97-11/13/97	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/07/97-11/13/97	2	26.	26.	32.	20.	72.	8.485	**	**	**	**
01062	MOLYBDENUM, TOTAL (UG/L AS MO)	10/07/97-11/13/97	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	10/07/97-11/13/97	2	11.	11.	15.	7.	32.	5.657	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	10/07/97-11/13/97	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	10/07/97-11/13/97	2	276.	276.	422.	130.	42632.	206.475	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	10/07/97-11/13/97	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	10/07/97-01/06/98	4	4.	4.	6.	2.	2.667	1.633	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	10/07/97-01/06/98	4	0.602	0.571	0.778	0.301	0.039	0.198	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			3.722								
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/13/97-11/13/97	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
71889	PHOSPHATE, ORTHO, SOLUBLE, AS PO4 (MG/L)	10/07/97-12/04/97	3 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	10/07/97-11/13/97	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	11/13/97-01/06/98	3	1.8	2.333	3.4	1.8	0.853	0.924	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0015

				Total	Exceed	Prop.	6/01-11/09			11/10-2/20			2/21-5/31			n/a		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	4	0	0.00	1	0	0.00	3	0	0.00						
00406	PH, FIELD	Fresh Chronic	9.	4	0	0.00	1	0	0.00	3	0	0.00						
		Other-Lo Lim.	6.5	4	0	0.00	1	0	0.00	3	0	0.00						
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	3	0	0.00	1	0	0.00	2	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						
01002	ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00				1	0	0.00						
		Drinking Water	50.	1	0	0.00				1	0	0.00						
01027	CADMIUM, TOTAL	Fresh Acute	3.9	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						
01034	CHROMIUM, TOTAL	Drinking Water	100.	2	0	0.00	1	0	0.00	1	0	0.00						
01042	COPPER, TOTAL	Fresh Acute	18.	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	1300.	2	0	0.00	1	0	0.00	1	0	0.00						
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00				1	0	0.00						
		Drinking Water	15.	1	0	0.00				1	0	0.00						
01067	NICKEL, TOTAL	Fresh Acute	1400.	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	100.	2	0	0.00	1	0	0.00	1	0	0.00						
01077	SILVER, TOTAL	Fresh Acute	4.1	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	100.	2	0	0.00	1	0	0.00	1	0	0.00						
01147	SELENIUM, TOTAL	Fresh Acute	20.	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	50.	2	0	0.00	1	0	0.00	1	0	0.00						
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	Other-Hi Lim.	200.	4	0	0.00	1	0	0.00	3	0	0.00						
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	0 &	0	0.00												
71900	MERCURY, TOTAL	Fresh Acute	2.4	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	2.	2	0	0.00	1	0	0.00	1	0	0.00						
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	3	0	0.00				3	0	0.00						

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

Station Inventory for Station: WHIS0016

NPS Station ID: WHIS0016 | LAT/LON: 40.585726/-122.550004 | Agency: 11NPSWRD | Date Created: 05/23/98
Location: CLEAR CREEK PELTIER BRIDGE | FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): WHIS_NPS_04
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 | Depth of Water: 0 | Aquifer:
Major Basin: CALIFORNIA | Elevation: 0 | Water Body Id:
Minor Basin: SACRAMENTO RIVER | ECO Region:
RF1 Index: 18020112 | RF1 Mile Point: 0.000 | Distance from RF1: 0.80 | On/Off RF1:
RF3 Index: 18010211001600.95 | RF3 Mile Point: 5.98 | Distance from RF3: 0.04 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE IGO CA-SHASTA COUNTY 7.5' SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE WAS DESCRIBED BY THE NPS AS "CLEAR CREEK PELTIER BRIDGE" AND WAS LOCATED UNDER THE PELTIER BRIDGE ON PELTIER VALLEY ROAD INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA WERE COLLECTED FROM APPROXIMATELY 1973 UNTIL 1980 BY PARK PERSONNEL FOR FOURTEEN TOTAL LOCATIONS. THE DATA FOR EACH LOCATION WERE IN SEPARATELY BOUND FILES. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; PO BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NPS WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/04/73-07/18/80	90	12.	11.696	18.	1.	9.514	3.085	8.03	9.4	14.	15.96
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/04/73-07/18/80	90	18.9	18.996	35.	5.	55.054	7.42	9.	13.225	24.	29.9
00032	CLOUD COVER (PERCENT)	07/18/80-07/18/80	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00035	WIND VELOCITY (MILES PER HOUR)	07/18/80-07/18/80	1	4.5	4.5	4.5	4.5	0.	0.	**	**	**	**
00045	PRECIPITATION, TOTAL (INCHES PER DAY)	07/18/80-07/18/80	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/01/73-11/15/73	13	48.	57.231	103.	43.	391.192	19.779	43.8	46.5	58.5	101.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/04/73-01/17/80	89	3.	7.706	153.	0.	335.845	18.326	0.	0.	8.	11.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	02/04/73-07/18/80	84	82.	81.476	110.	38.	155.578	12.473	66.5	75.	90.	95.
00300	OXYGEN, DISSOLVED MG/L	02/04/73-07/18/80	90	11.	11.191	15.	9.2	0.979	0.989	10.11	10.6	11.8	12.39
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/04/73-01/17/80	88	0.3	0.767	7.	0.	2.167	1.472	0.096	0.2	0.4	1.175
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/01/74-08/15/76	30	1.55	1.686	4.	0.33	0.784	0.886	0.441	1.02	2.4	2.617
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	02/04/73-08/15/76	46	0.05	0.108	1.1	0.	0.037	0.192	0.01	0.03	0.073	0.303
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/04/73-01/17/80	89	35.	36.888	60.	20.	77.078	8.779	25.	30.	40.	50.

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

EPA Water Quality Criteria Analysis for Station: WHIS0016

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	89	3	0.03	40	0	0.00	24	1	0.04	25	2	0.08			

& - 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: WHIS0016

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	90	0	0.00	41	0	0.00	24	0	0.00	25	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	88	0	0.00	40	0	0.00	23	0	0.00	25	0	0.00			

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

Annual Analysis for 1973 - Station WHIS0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/04/73-07/18/80	21	11.1	10.695	13.9	7.	3.397	1.843	8.42	9.15	12.2	13.2
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/04/73-07/18/80	21	18.3	17.171	26.7	5.	40.812	6.388	9.	10.85	22.5	26.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/04/73-01/17/80	21	5.	12.	153.	0.	1053.8	32.462	0.	3.	8.5	10.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	02/04/73-07/18/80	18	82.5	81.833	95.	68.	56.382	7.509	68.9	78.	85.25	95.
00300	OXYGEN, DISSOLVED MG/L	02/04/73-07/18/80	21	11.9	11.762	15.	10.1	1.666	1.291	10.4	10.6	12.55	13.8
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/04/73-01/17/80	20	0.25	2.131	7.	0.	7.26	2.694	0.02	0.03	4.75	6.9
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/04/73-01/17/80	21	35.	34.286	40.	20.	28.214	5.312	26.	30.	40.	40.

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

Annual Analysis for 1974 - Station WHIS0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/04/73-07/18/80	12	11.05	11.725	16.	9.	6.26	2.502	9.	9.25	14.5	15.7
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/04/73-07/18/80	12	18.95	19.633	33.	11.7	42.317	6.505	12.09	14.	23.75	31.5
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/04/73-01/17/80	12	10.	19.	56.	2.	424.545	20.605	2.3	3.25	38.	55.7
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	02/04/73-07/18/80	12	77.	76.167	86.	61.	43.788	6.617	63.7	72.	80.	85.1
00300	OXYGEN, DISSOLVED MG/L	02/04/73-07/18/80	12	11.2	11.217	12.	10.6	0.191	0.437	10.6	10.85	11.475	11.94
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/04/73-01/17/80	12	0.2	0.304	1.	0.2	0.052	0.228	0.2	0.2	0.3	0.82
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/04/73-01/17/80	12	30.	33.75	45.	25.	36.932	6.077	26.5	30.	40.	43.5

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

Annual Analysis for 1975 - Station WHIS0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/04/73-07/18/80	12	10.5	10.333	15.	6.	10.97	3.312	6.	7.	13.75	14.7
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/04/73-07/18/80	12	16.5	16.917	30.	6.	77.72	8.816	6.6	8.25	26.	29.7
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/04/73-01/17/80	12	7.	6.233	11.	0.	16.326	4.041	0.	2.85	10.	11.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	02/04/73-07/18/80	9	81.	80.333	94.	63.	89.5	9.46	63.	74.	87.5	94.
00300	OXYGEN, DISSOLVED MG/L	02/04/73-07/18/80	12	11.2	11.225	12.4	9.8	0.729	0.854	9.92	10.625	11.95	12.4
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/04/73-01/17/80	12	0.325	0.354	0.7	0.2	0.017	0.13	0.2	0.3	0.4	0.61
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/04/73-01/17/80	12	34.	35.25	50.	20.	111.659	10.567	20.	30.	47.5	50.

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

Annual Analysis for 1976 - Station WHIS0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/04/73-07/18/80	12	11.5	11.417	17.	1.	19.902	4.461	3.1	9.	15.	16.7
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/04/73-07/18/80	12	19.5	20.167	35.	8.	81.424	9.024	8.3	11.5	27.25	34.7
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/04/73-01/17/80	12 ##	0.	2.417	10.	0.	14.992	3.872	0.	0.	4.5	10.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	02/04/73-07/18/80	12	83.	84.75	95.	80.	32.568	5.707	80.	80.	89.	95.
00300	OXYGEN, DISSOLVED MG/L	02/04/73-07/18/80	12	11.	11.	12.3	10.1	0.338	0.582	10.22	10.5	11.25	12.09
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/04/73-01/17/80	12	0.275	0.288	0.6	0.11	0.019	0.137	0.137	0.2	0.3	0.57
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/04/73-01/17/80	12	40.	41.417	60.	30.	68.629	8.284	31.5	35.	48.	57.

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/04/73-07/18/80	10	13.	13.5	18.	9.	9.833	3.136	9.2	11.	17.	17.9
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/04/73-07/18/80	10	21.5	20.6	32.	7.	66.711	8.168	7.4	13.25	28.5	31.8
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/04/73-01/17/80	10	3.5	3.2	9.	0.	8.844	2.974	0.	0.	5.	8.6
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	02/04/73-07/18/80	10	89.	82.1	100.	38.	406.544	20.163	40.2	67.5	96.25	100.
00300	OXYGEN, DISSOLVED MG/L	02/04/73-07/18/80	10	10.65	10.76	12.5	9.5	0.647	0.804	9.56	10.25	11.15	12.38
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/04/73-01/17/80	10	0.35	0.34	0.5	0.2	0.009	0.097	0.2	0.275	0.4	0.49
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/04/73-01/17/80	10	47.5	46.5	60.	25.	105.833	10.288	26.5	40.	52.5	60.

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/04/73-07/18/80	10	13.	12.7	18.	7.	10.011	3.164	7.3	10.	14.5	17.8
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/04/73-07/18/80	10	17.5	18.3	25.	7.	28.9	5.376	7.8	15.75	24.	24.9
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/04/73-01/17/80	10 ##	0.	1.7	8.	0.	7.789	2.791	0.	0.	3.5	7.7
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	02/04/73-07/18/80	10	77.5	77.8	91.	54.	163.067	12.77	55.1	67.25	90.	90.9
00300	OXYGEN, DISSOLVED MG/L	02/04/73-07/18/80	10	10.7	10.68	11.8	9.6	0.477	0.691	9.64	10.	11.2	11.77
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/04/73-01/17/80	10	0.4	0.34	0.4	0.1	0.009	0.097	0.12	0.3	0.4	0.4
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/04/73-01/17/80	10	35.	32.8	40.	22.	35.956	5.996	22.3	27.25	36.25	40.

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

Annual Analysis for 1979 - Station WHIS0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/04/73-07/18/80	11	12.2	12.773	16.7	7.	7.956	2.821	7.6	12.	15.6	16.48
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/04/73-07/18/80	11	20.	21.355	32.2	9.	71.133	8.434	9.4	13.3	30.	31.98
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/04/73-01/17/80	11	3.	3.364	15.	0.	19.455	4.411	0.	0.	4.	13.4
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	02/04/73-07/18/80	11	92.	86.182	110.	46.	433.364	20.817	46.8	80.	95.	110.
00300	OXYGEN, DISSOLVED MG/L	02/04/73-07/18/80	11	10.8	11.155	14.4	9.2	1.757	1.325	9.42	10.6	11.9	13.9
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/04/73-01/17/80	11	0.4	0.527	1.	0.3	0.058	0.241	0.3	0.3	0.6	0.98
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/04/73-01/17/80	11	35.	35.	40.	20.	35.	5.916	22.	35.	40.	40.

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

Annual Analysis for 1980 - Station WHIS0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/04/73-07/18/80	2	11.9	11.9	14.4	9.4	12.5	3.536	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/04/73-07/18/80	2	22.25	22.25	26.7	17.8	39.605	6.293	**	**	**	**
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/04/73-01/17/80	1	16.	16.	16.	16.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	02/04/73-07/18/80	2	85.	85.	90.	80.	50.	7.071	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	02/04/73-07/18/80	2	10.9	10.9	11.3	10.5	0.32	0.566	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/04/73-01/17/80	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/04/73-01/17/80	1	60.	60.	60.	60.	0.	0.	**	**	**	**

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

Seasonal Analysis for Season #1: 6/01 to 11/09 - Station WHIS0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/04/73-07/18/80	41	14.	14.11	18.	10.	4.001	2.	11.28	12.2	15.6	17.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/04/73-07/18/80	41	23.	23.712	35.	11.7	32.266	5.68	17.	20.	28.	31.98
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/04/73-01/17/80	40	5.	4.95	17.	0.	18.972	4.356	0.	0.25	7.75	10.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	02/04/73-07/18/80	39	82.	82.795	110.	38.	152.799	12.361	68.	79.	90.	95.
00300	OXYGEN, DISSOLVED MG/L	02/04/73-07/18/80	41	10.6	10.685	14.4	9.2	0.704	0.839	9.84	10.35	11.	11.84
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/04/73-01/17/80	40	0.375	1.208	7.	0.02	4.244	2.06	0.11	0.263	0.5	5.9
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/04/73-01/17/80	40	35.	36.95	60.	20.	58.203	7.629	30.	33.5	40.	50.

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

Seasonal Analysis for Season #2: 11/10 to 2/20 - Station WHIS0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/04/73-07/18/80	24	9.4	9.033	12.2	1.	5.73	2.394	6.5	7.475	10.45	11.95
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/04/73-07/18/80	24	10.8	12.038	19.	5.	14.946	3.866	7.5	9.	16.	17.8
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/04/73-01/17/80	24	3.	12.2	153.	0.	987.812	31.429	0.	0.	10.	30.5
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	02/04/73-07/18/80	24	81.5	81.	100.	60.	114.261	10.689	64.5	72.	90.	94.5
00300	OXYGEN, DISSOLVED MG/L	02/04/73-07/18/80	24	11.45	11.45	12.4	10.1	0.393	0.627	10.45	11.025	11.9	12.35
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/04/73-01/17/80	23	0.3	0.522	2.75	0.2	0.311	0.558	0.2	0.2	0.7	1.
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/04/73-01/17/80	24	35.	36.667	60.	20.	89.623	9.467	25.	30.	41.5	50.

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

Seasonal Analysis for Season #3: 2/21 to 5/31 - Station WHIS0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/04/73-07/18/80	25	10.	10.292	15.	6.	4.027	2.007	7.6	8.95	12.	12.4
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/04/73-07/18/80	25	18.3	17.94	32.	6.	48.478	6.963	7.6	12.55	22.1	27.8
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/04/73-01/17/80	25	3.	7.8	56.	0.	221.083	14.869	0.	0.	6.5	31.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	02/04/73-07/18/80	21	83.	79.571	95.	46.	216.457	14.712	50.8	74.	92.	95.
00300	OXYGEN, DISSOLVED MG/L	02/04/73-07/18/80	25	11.5	11.772	15.	10.6	1.225	1.107	10.76	11.	12.25	13.4
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/04/73-01/17/80	25	0.3	0.286	1.	0.	0.05	0.224	0.026	0.11	0.4	0.6
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/04/73-01/17/80	25	35.	37.	60.	20.	102.083	10.104	23.	30.	40.	54.

** - Less than 9 observations ## - Computed 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: WHIS0017

NPS Station ID: WHIS0017 | LAT/LON: 40.589170/-122.536949 | Agency: 113BUREC | Date Created: 03/12/94
Location: WHISKEYTOWN LAKE AT WHISKEYTOWN DAM OUTLET WORKS | FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/LAKE | STORET Station ID(s): LWSKDAM /SH49
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 | Depth of Water: 0 | Aquifer:
Major Basin: CALIFORNIA | Elevation: 0 | Water Body Id:
Minor Basin: SACRAMENTO RIVER | ECO Region:
RF1 Index: 18020112 | RF1 Mile Point: 0.000 | Distance from RF1: 0.80 | On/Off RF1:
RF3 Index: 18010211001600.95 | RF3 Mile Point: 5.98 | Distance from RF3: 0.04 | On/Off RF3:
Description:
LOCATION: WHISKEYTOWN LAKE AT WHISKEYTOWN DAM OUTLET WORKS. THE INSTRUMENT (TEMPMENTOR) IS SECURED INSIDE THE ENTRANCE TO THE OUTLET WORKS AND CONSISTS OF A SINGLE TEMPERATURE PROBE LOGGING HOURLY TEMPERATURES FROM A SINGLE ELEVATION. SURFACE ELEVATION - 1040 FEET ABOVE M.S.L.

Parameter Inventory for Station: WHIS0017

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: WHIS0018

NPS Station ID: WHIS0018 LAT/LON: 40.596587/-122.537559 Agency: 11NPSWRD Date Created: 04/10/99
Location: CLEAR CREEK WATER DISTRICT INTAKE BELOW DAM FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): WHIS_BOR_CCOW
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 Depth of Water: 0 Aquifer:
Major Basin: CALIFORNIA Elevation: 0 Water Body Id:
Minor Basin: SACRAMENTO RIVER ECO Region:
RF1 Index: 18020112 RF1 Mile Point: 0.000 Distance from RF1: 0.80 On/Off RF1:
RF3 Index: 18010211001600.95 RF3 Mile Point: 5.98 Distance from RF3: 0.04 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE IGO CA-SHASTA COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS LOCATED AT THE CLEAR CREEK WATER DISTRICT INTAKE JUST BELOW THE DAM AND IS INSIDE OF THE WHISKEY- TOWN-SHASTA-TRINITY NATIONAL RECREATION AREA BOUNDARIES. DATA WERE COLLECTED BY THE BUREAU OF RECLAMATION (SACRAMENTO CALIFORNIA) IN ORDER TO ESTABLISH A WATER QUALITY BASELINE FOR SOME OF THE RESERVOIRS UNDER ITS MANAGEMENT. FOR MORE INFORMATION ON WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA CONTACT THE CHIEF OF RESOURCES AT P.O. BOX 188; WHISKEYTOWN CA 96095-0188 (TEL. 916-241-6584). 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: WHIS0018

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
46491	METHYL TERTIARY BUTYL ETHER(MTBE),TOTAL,WATER UG/L	08/17/98-08/17/98	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**

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

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

Station Inventory for Station: WHIS0019

NPS Station ID: WHIS0019
LAT/LON: 40.596670/-122.537782
Agency: 21CAL-1
Date Created: 04/26/86
Location: CLEAR C A WHISKEYTOWN DAM
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): A3614000
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112
Depth of Water: 0
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER BASIN
ECO Region:
RF1 Index: 18020112006
RF1 Mile Point: 0.350
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 18020112000405.77
RF3 Mile Point: 6.35
Distance from RF3: 0.02
On/Off RF3:
Description:
CLEAR C A WHISKEYTOWN DAM

Parameter Inventory for Station: WHIS0019

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: WHIS0020

NPS Station ID: WHIS0020 LAT/LON: 40.596782/-122.601504 Agency: 11NPSWRD Date Created: 04/10/99
Location: BRANDY CK; AT ROAD JUNCTION ABOVE "ROCKSLIDES" FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): WHIS_NPS_29
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 Depth of Water: 0 Aquifer:
Major Basin: CALIFORNIA Elevation: 0 Water Body Id:
Minor Basin: SACRAMENTO RIVER ECO Region:
RF1 Index: 18020112 RF1 Mile Point: 0.000 Distance from RF1: 0.80 On/Off RF1:
RF3 Index: 18010211001600.95 RF3 Mile Point: 5.98 Distance from RF3: 0.04 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE IGO CA 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE WAS DESCRIBED BY THE NPS AS "BRANDY CREEK; AT ROAD JUNCTION ABOVE "ROCKSLIDES"" INSIDE OF THE WHISKEYTOWN-SHASTA- TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA WERE FROM MISCELLANEOUS PAPERS IN A BROWN FOLDER LABELED "WATER QUALITY." THE FOLDER WAS FROM THE PARK. THE LOCATION OF THE STATION WAS ESTIMATED USING SITE DESCRIPTIONS. LATITUDE AND LONGITUDE VALUES WERE OBTAINED BY DIGITIZING A POINT MARKED ON A QUADRANGLE. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT THE WHISKEYTOWN-SHASTA- TRINITY NATIONAL RECREATION AREA; PO BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NPS WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0020

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/20/84-07/20/84	1	18.	18.	18.	18.	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/20/84-07/20/84	1	27.	27.	27.	27.	0.	0.	**	**	**	**
00032	CLOUD COVER (PERCENT)	07/20/84-07/20/84	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00035	WIND VELOCITY (MILES PER HOUR)	07/20/84-07/20/84	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00045	PRECIPITATION, TOTAL (INCHES PER DAY)	07/20/84-07/20/84	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	07/20/84-07/20/84	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/20/84-07/20/84	1	50.	50.	50.	50.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/20/84-07/20/84	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/20/84-07/20/84	1	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/20/84-07/20/84	1	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/20/84-07/20/84	1	0.079	0.079	0.079	0.079	0.	0.	**	**	**	**
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	07/20/84-07/20/84	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0020

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a 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									
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: WHIS0021

NPS Station ID: WHIS0021 | LAT/LON: 40.598503/-122.541588 | Agency: 11NPSWRD | Date Created: 02/07/98
Location: WEST OF DAM | FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /RESERV/TYPA/AMBNT | STORET Station ID(s): WHIS_WQCB_12
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 | Depth of Water: 0 | Aquifer:
Major Basin: CALIFORNIA | Elevation: 0 | Water Body Id:
Minor Basin: SACRAMENTO RIVER | ECO Region:
RF1 Index: 18020112 | RF1 Mile Point: 0.000 | Distance from RF1: 0.80 | On/Off RF1:
RF3 Index: 18010211001600.95 | RF3 Mile Point: 5.98 | Distance from RF3: 0.04 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE WHISKEYTOWN-CA SHASTA COUNTY 7.5 MINUTE (TOPOGRAPHIC) QUADRANGLE. THE SITE IS DESCRIBED BY THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD (WQCB) AS "WEST OF DAM." THE SITE IS LOCATED ADJACENT TO THE WEST SIDE OF THE WHISKEYTOWN DAM INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA ARE FROM FOUR BACTERIOLOGICAL SURVEYS PERFORMED BY THE WQCB IN 1986; 1987; 1990 AND 1991. FOR MORE INFORMATION ON THE BACTERIOLOGICAL SURVEY CONTACT THE WQCB; 415 KNOLLCREST DR. SUITE 100; REDDING CA 96002 (TEL 916-224-4845). FOR MORE INFORMATION ON THE WHISKEYTOWN UNIT OF THE PARK CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; P.O. BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX970-225-9965).

Parameter Inventory for Station: WHIS0021

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/15/86-07/31/90	5	9.	53.9	240.	1.5	10849.55	104.161	**	**	**	**
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	07/15/86-07/31/90	5	0.954	1.058	2.38	0.176	0.69	0.83	**	**	**	**
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			11.422								
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/15/86-07/31/90	5 ##	1.5	1.8	3.	1.5	0.45	0.671	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/15/86-07/31/90	5 ##	0.176	0.236	0.477	0.176	0.018	0.135	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			1.723								

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

EPA Water Quality Criteria Analysis for Station: WHIS0021

				Total	Exceed	Prop.	----------6/01-11/09----------			----------11/10-2/20----------			----------2/21-5/31----------			--------------n/a--------------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	5	0	0.00	5	0	0.00									
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	Other-Hi Lim.	200.	5	0	0.00	5	0	0.00									

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

Station Inventory for Station: WHIS0022

NPS Station ID: WHIS0022 | LAT/LON: 40.598503/-122.541588 | Agency: 11NPSWRD | Date Created: 02/20/99
Location: WEST SIDE OF DAM | FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /RESERV/TYPA/AMBNT | STORET Station ID(s): WHIS_WQCB2_05
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 | Depth of Water: 0 | Aquifer:
Major Basin: CALIFORNIA | Elevation: 0 | Water Body Id:
Minor Basin: SACRAMENTO RIVER | ECO Region:
RF1 Index: 18020112 | RF1 Mile Point: 0.000 | Distance from RF1: 0.80 | On/Off RF1:
RF3 Index: 18010211001600.95 | RF3 Mile Point: 5.98 | Distance from RF3: 0.04 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE IGO CA-SHASTA COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS DESCRIBED AS "WEST SIDE OF DAM" AND IS LOCATED ON WHISKEYTOWN LAKE INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA ARE FROM A MEMORANDUM IN THE ARCHIVE FILES LOCATED AT THE PARK AND ARE BELIEVED TO BE FROM THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD. FOR MORE INFORMATION ON THE WHISKEYTOWN UNIT OF THE PARK CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; P.O. BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0022

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/05/76-07/04/77	4	166.5	199.25	460.	4.	39687.583	199.217	**	**	**	**
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	07/05/76-07/04/77	4	2.174	1.903	2.663	0.602	0.834	0.913	**	**	**	**
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			80.053								
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/05/76-07/04/77	4 ##	47.25	139.	460.	1.5	47656.5	218.304	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/05/76-07/04/77	4 ##	1.072	1.246	2.663	0.176	1.606	1.267	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			17.614								

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

EPA Water Quality Criteria Analysis for Station: WHIS0022

				Total	Exceed	Prop.	----------6/01-11/09----------			----------11/10-2/20----------			----------2/21-5/31----------			--------------n/a--------------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	4	0	0.00	4	0	0.00									
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	Other-Hi Lim.	200.	4	1	0.25	4	1	0.25									

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

Station Inventory for Station: WHIS0023

NPS Station ID: WHIS0023
LAT/LON: 40.599003/-122.593115
Agency: 11NPSWRD
Date Created: 04/10/99
Location: BRANDY CREEK; AT SHEEP CAMP BRIDGE
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): WHIS_NPS_23
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112
Depth of Water: 0
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112
RF1 Mile Point: 0.000
Distance from RF1: 0.80
On/Off RF1:
RF3 Index: 18010211001600.95
RF3 Mile Point: 5.98
Distance from RF3: 0.04
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE IGO CA 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE WAS DESCRIBED BY THE NPS AS "BRANDY CREEK; AT SHEEP CAMP BRIDGE" INSIDE OF THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA WERE FROM MISCELLANEOUS PAPERS IN A BROWN FOLDER LABELED "WATER QUALITY." THE FOLDER WAS FROM THE PARK. THE LOCATION OF THE STATION WAS ESTIMATED USING SITE DESCRIPTIONS. LATITUDE AND LONGITUDE VALUES WERE OBTAINED BY DIGITIZING A POINT MARKED ON A QUADRANGLE. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; PO BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NPS WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0023

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/20/84-07/20/84	1	17.	17.	17.	17.	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/20/84-07/20/84	1	30.	30.	30.	30.	0.	0.	**	**	**	**
00032	CLOUD COVER (PERCENT)	07/20/84-07/20/84	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00035	WIND VELOCITY (MILES PER HOUR)	07/20/84-07/20/84	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00045	PRECIPITATION, TOTAL (INCHES PER DAY)	07/20/84-07/20/84	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	07/20/84-07/20/84	1	17.	17.	17.	17.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/20/84-07/20/84	1	50.	50.	50.	50.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/20/84-07/20/84	1	8.7	8.7	8.7	8.7	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/20/84-07/20/84	1	7.14	7.14	7.14	7.14	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/20/84-07/20/84	1	7.14	7.14	7.14	7.14	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/20/84-07/20/84	1	0.072	0.072	0.072	0.072	0.	0.	**	**	**	**
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	07/20/84-07/20/84	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0023

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a 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									
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: WHIS0024

NPS Station ID: WHIS0024 | LAT/LON: 40.599559/-122.538837 | Agency: 11NPSWRD | Date Created: 02/07/98
Location: MID-DAM | FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /RESERV/TYPA/AMBNT | STORET Station ID(s): WHIS_WQCB_11
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 | Depth of Water: 0 | Aquifer:
Major Basin: CALIFORNIA | Elevation: 0 | Water Body Id:
Minor Basin: SACRAMENTO RIVER | ECO Region:
RF1 Index: 18020112 | RF1 Mile Point: 0.000 | Distance from RF1: 0.80 | On/Off RF1:
RF3 Index: 18010211001600.95 | RF3 Mile Point: 5.98 | Distance from RF3: 0.04 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE IGO-CA SHASTA COUNTY 7.5 MINUTE (TOPOGRAPHIC) QUADRANGLE. THE SITE IS DESCRIBED BY THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD (WQCB) AS "MID-DAM." THE SITE IS LOCATED AT WHISKEYTOWN LAKE INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA ARE FROM FOUR BACTERIOLOGICAL SURVEYS PERFORMED BY THE WQCB IN 1986; 1987; 1990 AND 1991. FOR MORE INFORMATION ON THE BACTERIOLOGICAL SURVEYS CONTACT THE WQCB; 415 KNOLLCREST DR. SUITE 100; REDDING CA 96002 (TEL 916-224-4845). FOR MORE INFORMATION ON THE PARK'S WHISKEYTOWN UNIT CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; P.O. BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX970-225-9965).

Parameter Inventory for Station: WHIS0024

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/15/86-07/07/87	3	23.	18.	28.	3.	175.	13.229	**	**	**	**
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	07/15/86-07/07/87	3	1.362	1.095	1.447	0.477	0.288	0.537	**	**	**	**
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			12.455								
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/15/86-07/07/87	3 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/15/86-07/07/87	3 ##	0.176	0.176	0.176	0.176	0.	0.	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			1.5								

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

EPA Water Quality Criteria Analysis for Station: WHIS0024

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	3	0	0.00	3	0	0.00									
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	Other-Hi Lim.	200.	3	0	0.00	3	0	0.00									

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

Station Inventory for Station: WHIS0025

NPS Station ID: WHIS0025 LAT/LON: 40.600004/-122.536116 Agency: 21CAL-3 Date Created: 09/29/84
Location: 45-011 CENTERVILLE CSD -WHISKEYTOWN LAKE INTAKE FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): A45/011-RAW
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 Depth of Water: 0 Aquifer:
Major Basin: CALIFORNIA Elevation: 0 Water Body Id:
Minor Basin: SACRAMENTO RIVER ECO Region:
RF1 Index: 18020112006 RF1 Mile Point: 0.560 Distance from RF1: 9.00 On/Off RF1: OFF
RF3 Index: 18020102006800.06 RF3 Mile Point: 0.44 Distance from RF3: 0.55 On/Off RF3:
Description:
DIST 01 CENTERVILLE CSD -WHISKEYTOWN LAKE INTAKE CENTERVILLE CSD PURCHASES WATER FROM CLEAR CREEK CSD.

Parameter Inventory for Station: WHIS0025

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

******** No Parameter Data at this Station Suitable for Statistical Analysis ********

Station Inventory for Station: WHIS0026

NPS Station ID: WHIS0026 LAT/LON: 40.600004/-122.536116 Agency: 21CAL-3 Date Created: 09/29/84
Location: 45-011 CENTERVILLE CSD-WHISKEYTOWN LAKE INTAKE FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/MUN/INTAKE/AMBNT/LAKE STORET Station ID(s): A45/011-TREATED
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 Depth of Water: 0 Aquifer:
Major Basin: CALIFORNIA Elevation: 0 Water Body Id:
Minor Basin: SACRAMENTO RIVER ECO Region:
RF1 Index: 18020112 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 18020112000500.01 RF3 Mile Point: 0.00 Distance from RF3: 0.05 On/Off RF3:
Description:
DIST 01 CENTERVILLE CSD-WHISKEYTOWN LAKE INTAKE CENTERVILLE COMMUNITY SERVICES DISTRICT PURCHASES WATER FROM CLEAR CREEK COMMUNITY SERVICES DISTRICT.

Parameter Inventory for Station: WHIS0026

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: WHIS0027

NPS Station ID: WHIS0027 LAT/LON: 40.600004/-122.536116 Agency: 21CAL-3 Date Created: 09/29/84
Location: 45-016 CLEAR CREEK CSD-WHISKEYTOWN LAKE INTAKE FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): A45/016-RAW
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 Depth of Water: 0 Aquifer:
Major Basin: CALIFORNIA Elevation: 0 Water Body Id:
Minor Basin: SACRAMENTO RIVER ECO Region:
RF1 Index: 18020112006 RF1 Mile Point: 0.560 Distance from RF1: 2.50 On/Off RF1: OFF
RF3 Index: 18020101004500.00 RF3 Mile Point: 0.00 Distance from RF3: 0.19 On/Off RF3:
Description:
DIST 01 CLEAR CREEK CSD-WHISKEYTOWN LAKE INTAKE

Parameter Inventory for Station: WHIS0027

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	03/13/81-03/13/81	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
00086	ODOR (THRESHOLD NUMBER AT 60 DEG C)	03/13/81-03/13/81	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/10/75-03/13/81	2	62.5	62.5	65.	60.	12.5	3.536	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	07/10/75-03/13/81	2	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	07/10/75-03/13/81	2	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/10/75-03/13/81	2	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	07/10/75-03/13/81	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00425	ALKALINITY, BICARBONATE (MG/L AS CACO3)	07/10/75-03/13/81	2	34.5	34.5	35.	34.	0.5	0.707	**	**	**	**
00430	ALKALINITY, CARBONATE (MG/L AS CACO3)	03/13/81-03/13/81	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	07/10/75-03/13/81	2	42.5	42.5	43.	42.	0.5	0.707	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	07/10/75-07/10/75	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	03/13/81-03/13/81	1	61.	61.	61.	61.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/10/75-03/13/81	2	35.	35.	36.	34.	2.	1.414	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	07/10/75-03/13/81	2	5.75	5.75	6.	5.5	0.125	0.354	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	07/10/75-03/13/81	2	5.	5.	5.	5.	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	07/10/75-03/13/81	2	2.355	2.355	2.71	2.	0.252	0.502	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	07/10/75-03/13/81	2 ##	1.25	1.25	2.	0.5	1.125	1.061	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	07/10/75-03/13/81	2	3.	3.	4.	2.	2.	1.414	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	07/10/75-03/13/81	2 ##	0.095	0.095	0.14	0.05	0.004	0.064	**	**	**	**
01501	ALPHA, TOTAL	09/22/86-09/22/86	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
01502	ALPHA, TOTAL, COUNTING ERROR	09/22/86-09/22/86	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	03/13/81-03/13/81	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	07/10/75-03/13/81	2 ##	0.125	0.125	0.2	0.05	0.011	0.106	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	03/13/81-03/13/81	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0027

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00403	PH, LAB	Fresh Chronic	9.	2	0	0.00	1	0	0.00				1	0	0.00			
		Other-Lo Lim.	6.5	2	0	0.00	1	0	0.00				1	0	0.00			

& - 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: WHIS0027

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	250.	2	0	0.00	1	0	0.00				1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	2	0	0.00	1	0	0.00				1	0	0.00			
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	2	0	0.00	1	0	0.00				1	0	0.00			
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	2	0	0.00	1	0	0.00				1	0	0.00			
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: WHIS0028

NPS Station ID: WHIS0028
LAT/LON: 40.600004/-122.536116
Agency: 21CAL-3
Date Created: 09/29/84
Location: 45-016 CLEAR CREEK CSD-WHISKEYTOWN LAKEINTAKE
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/MUN/INTAKE/AMBNT/LAKE
STORET Station ID(s): A45/016-TREATED
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112
Depth of Water: 0
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 18020112000500.01
RF3 Mile Point: 0.00
Distance from RF3: 0.05
On/Off RF3:
Description:
DIST 01 CLEAR CREEK CSD - WHISKEYTOWN LAKE INTAKE

Parameter Inventory for Station: WHIS0028

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	06/21/78-06/11/85	5 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
00086	ODOR (THRESHOLD NUMBER AT 60 DEG C)	06/21/78-06/11/85	5	0.	0.	0.	0.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/21/78-06/11/85	5	71.	73.2	84.	65.	51.7	7.19	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	06/21/78-06/11/85	5	7.6	7.56	7.8	7.2	0.053	0.23	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	06/21/78-06/11/85	5	7.6	7.507	7.8	7.2	0.057	0.238	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/21/78-06/11/85	5	0.025	0.031	0.063	0.016	0.	0.019	**	**	**	**
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	06/21/78-03/13/81	3	0.	0.	0.	0.	0.	0.	**	**	**	**
00425	ALKALINITY, BICARBONATE (MG/L AS CACO3)	06/21/78-06/11/85	5	35.	34.8	38.	29.	12.2	3.493	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	06/21/78-06/11/85	5	43.	40.	46.	24.	82.5	9.083	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	06/21/78-06/11/85	5	0.	0.	0.	0.	0.	0.	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	06/21/78-06/11/85	5	49.	49.2	61.	38.	84.2	9.176	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/21/78-06/11/85	5	34.	31.8	36.	22.	32.2	5.675	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	06/21/78-06/11/85	5	4.9	4.84	5.5	4.2	0.393	0.627	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	06/21/78-06/11/85	5	5.1	4.82	5.8	2.9	1.247	1.117	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	06/21/78-06/11/85	5	2.71	2.988	4.3	2.08	0.958	0.979	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/21/78-06/11/85	5	2.	1.5	2.	0.5	0.5	0.707	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	06/21/78-06/11/85	5	4.	3.7	7.	0.5	6.45	2.54	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	06/21/78-06/11/85	5 ##	0.025	0.039	0.07	0.025	0.	0.02	**	**	**	**
01501	ALPHA, TOTAL	02/05/80-03/18/82	3	0.3	0.067	0.3	-0.3	0.103	0.321	**	**	**	**
01502	ALPHA, TOTAL, COUNTING ERROR	02/05/80-03/18/82	3	0.4	0.367	0.4	0.3	0.003	0.058	**	**	**	**
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	06/21/78-06/11/85	5 ##	0.025	0.021	0.025	0.005	0.	0.009	**	**	**	**
39045	2,4,5-TP INCLUDES ACIDS & SALTS WATER SAMPL UG/L	03/18/82-08/19/85	2 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	03/18/82-08/19/85	2 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	03/18/82-08/19/85	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	03/18/82-08/19/85	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	03/18/82-08/19/85	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39782	LINDANE IN WHOLE WATER SAMPLE (UG/L)	03/18/82-08/19/85	2 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	06/21/78-06/11/85	5	0.2	0.28	0.6	0.1	0.047	0.217	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	06/21/78-06/11/85	5	0.7	0.78	1.1	0.4	0.077	0.277	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0028

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00403	PH, LAB	Fresh Chronic	9.	5	0	0.00	3	0	0.00				2	0	0.00			
		Other-Lo Lim.	6.5	5	0	0.00	3	0	0.00				2	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	5	0	0.00	3	0	0.00				2	0	0.00			
		Drinking Water	250.	5	0	0.00	3	0	0.00				2	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	5	0	0.00	3	0	0.00				2	0	0.00			
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	5	0	0.00	3	0	0.00				2	0	0.00			
39045	2,4,5-TP INCLUDES ACIDS & SALTS WATER SA	Drinking Water	50.	2	0	0.00	1	0	0.00				1	0	0.00			
39390	ENDRIN IN WHOLE WATER SAMPLE	Fresh Acute	0.18	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	2.	2	0	0.00	1	0	0.00				1	0	0.00			
39400	TOXAPHENE IN WHOLE WATER SAMPLE	Fresh Acute	0.73	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	3.	2	0	0.00	1	0	0.00				1	0	0.00			
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE	Drinking Water	40.	2	0	0.00	1	0	0.00				1	0	0.00			
39730	2,4-D IN WHOLE WATER SAMPLE	Drinking Water	70.	2	0	0.00	1	0	0.00				1	0	0.00			
39782	LINDANE IN WHOLE WATER SAMPLE	Fresh Acute	2.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	0.2	2	0	0.00	1	0	0.00				1	0	0.00			
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	5	0	0.00	3	0	0.00				2	0	0.00			
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	5	0	0.00	3	0	0.00				2	0	0.00			

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

Station Inventory for Station: WHIS0029

NPS Station ID: WHIS0029
LAT/LON: 40.600420/-122.538004
Agency: 11NPSWRD
Date Created: 05/30/98
Location: WHISKEYTOWN RESERVOIR
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /RESERV/TYPA/AMBNT
STORET Station ID(s): WHIS_CDWR_01
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112
Depth of Water: 0
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112
RF1 Mile Point: 0.000
Distance from RF1: 0.80
On/Off RF1:
RF3 Index: 18010211001600.95
RF3 Mile Point: 5.98
Distance from RF3: 0.04
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE IGO CALIFORNIA-SHASTA COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS DESCRIBED BY THE CALIFORNIA DEPARTMENT OF WATER RESOURCES (CDWR) AS "WHISKEYTOWN RESERVOIR" AND IS LOCATED INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA ARE FROM THE CDWR'S DATABASE. FOR MORE INFORMATION ON THE DATA CONTACT THE CDWR; NORTHERN DIVISION: 2440 MAIN ST.; RED BLUFF CALIFORNIA 96080 (TEL 916-529-7300). FOR MORE INFORMATION ON THE WHISKEYTOWN UNIT OF THE PARK CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA: P.O. BOX 188; WHISKEYTOWN CALIFORNIA 96095 (TEL 916-241-6584). THE DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0029

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/21/71-06/02/94	1115	11.	11.929	23.3	7.	12.022	3.467	8.5	9.3	13.8	17.14
00011p	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	10/05/70-06/02/94	334	51.3	53.811	76.6	32.	41.859	6.47	47.4	49.3	57.4	61.95
00078	TRANSPARENCY, SECCHI DISC (METERS)	09/20/77-06/02/94	13	8.	9.838	22.9	4.2	30.683	5.539	4.68	5.9	12.	21.3
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/05/70-06/02/94	177	88.	88.514	131.	71.	113.217	10.64	77.	81.	97.	105.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/01/78-06/02/94	233	87.	88.266	129.	63.	118.325	10.878	74.	81.	95.5	102.
00299p	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	10/05/70-06/02/94	1100	9.	8.818	11.8	4.8	1.726	1.314	6.8	8.1	9.9	10.2
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/17/91-06/02/94	320	89.8	87.494	113.5	58.7	181.449	13.47	64.5	82.	96.8	104.6
00406p	PH, FIELD, STANDARD UNITS SU	10/05/70-06/02/94	342	7.3	7.437	8.5	6.8	0.168	0.41	7.	7.1	7.6	8.1
00406p	CONVERTED PH, FIELD, STANDARD UNITS	10/05/70-06/02/94	342	7.3	7.297	8.5	6.8	0.188	0.433	7.	7.1	7.6	8.1
00406p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/05/70-06/02/94	342	0.05	0.051	0.158	0.003	0.001	0.033	0.008	0.025	0.079	0.1
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	12/17/81-08/30/90	99	36.	36.475	49.	25.	27.129	5.209	30.	35.	39.	44.
00431p	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/10/82-06/02/94	63	36.	38.175	52.	30.	40.146	6.336	31.	33.	44.	46.6
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	09/20/77-06/02/94	30 ##	0.005	0.01	0.05	0.	0.	0.013	0.	0.004	0.01	0.038
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	06/02/94-06/02/94	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	06/29/77-06/02/94	8	0.015	0.016	0.05	0.	0.	0.016	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/19/81-09/07/93	26	0.01	0.023	0.06	0.	0.	0.022	0.	0.005	0.043	0.06
00635	NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	06/29/77-06/02/94	29 ##	0.05	0.069	0.3	0.	0.004	0.065	0.	0.025	0.1	0.1
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	06/29/77-06/02/94	34 ##	0.01	0.008	0.03	0.	0.	0.007	0.	0.005	0.01	0.02
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/19/81-06/02/94	22	37.	36.909	48.	28.	26.182	5.117	28.3	32.75	40.	42.8
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/19/81-06/02/94	22	6.	5.636	6.	5.	0.242	0.492	5.	5.	6.	6.
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/19/81-06/02/94	22	6.	5.5	8.	3.	1.5	1.225	3.3	4.75	6.	6.7
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/19/81-06/02/94	22	3.	2.591	3.	2.	0.253	0.503	2.	2.	3.	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 time series plot

Parameter Inventory for Station: WHIS0029

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/19/81-06/02/94	22	0.4	0.414	0.7	0.3	0.008	0.089	0.3	0.4	0.425	0.5
00941	CHLORIDE, DISSOLVED IN WATER MG/L	08/19/81-06/02/94	20	2.	1.65	2.	1.	0.239	0.489	1.	1.	2.	2.
00946	SULFATE, DISSOLVED (MG/L AS SO4)	08/19/81-06/02/94	20	3.	3.1	5.	0.	1.358	1.165	2.	2.25	4.	4.9
01002	ARSENIC, TOTAL (UG/L AS AS)	09/30/86-06/02/94	15 ##	0.5	0.5	1.	0.	0.036	0.189	0.3	0.5	0.5	0.7
01020	BORON, DISSOLVED (UG/L AS B)	08/19/81-06/02/94	22 ##	50.	34.091	100.	0.	806.277	28.395	0.	0.	50.	50.
01027	CADMIUM, TOTAL (UG/L AS CD)	09/30/86-06/02/94	15 ##	2.5	2.367	2.5	0.5	0.267	0.516	1.7	2.5	2.5	2.5
01034	CHROMIUM, TOTAL (UG/L AS CR)	09/30/86-06/02/94	15 ##	2.5	2.267	5.	0.5	1.245	1.116	0.5	2.5	2.5	3.5
01042	COPPER, TOTAL (UG/L AS CU)	09/30/86-06/02/94	15 ##	2.5	2.667	5.	2.5	0.417	0.645	2.5	2.5	2.5	3.5
01045	IRON, TOTAL (UG/L AS FE)	09/30/86-06/02/94	15 ##	50.	67.333	200.	10.	2355.095	48.529	14.8	25.	100.	141.2
01051	LEAD, TOTAL (UG/L AS PB)	09/30/86-06/02/94	15 ##	2.5	2.433	2.5	1.5	0.067	0.258	2.1	2.5	2.5	2.5
01055	MANGANESE, TOTAL (UG/L AS MN)	09/30/86-06/02/94	15 ##	5.	8.833	30.	2.5	77.452	8.801	2.5	2.5	13.	25.8
01062	MOLYBDENUM, TOTAL (UG/L AS MO)	05/19/93-06/02/94	4 ##	3.75	3.75	5.	2.5	2.083	1.443	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	05/11/89-09/17/91	9 ##	2.5	2.5	2.5	2.5	0.	0.	2.5	2.5	2.5	2.5
01092	ZINC, TOTAL (UG/L AS ZN)	09/30/86-06/02/94	15 ##	2.5	3.867	7.	2.5	2.552	1.598	2.5	2.5	5.	6.4
01105	ALUMINUM, TOTAL (UG/L AS AL)	05/11/89-09/17/91	9 ##	500.	500.	500.	500.	0.	0.	500.	500.	500.	500.
01147	SELENIUM, TOTAL (UG/L AS SE)	09/30/86-06/02/94	15 ##	0.5	0.433	0.5	0.	0.031	0.176	0.	0.5	0.5	0.5
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	12/17/81-06/10/82	20	4.	34.4	307.	2.	6393.2	79.957	3.	4.	9.5	198.6
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	12/17/81-06/10/82	20	0.602	0.911	2.487	0.301	0.385	0.62	0.477	0.602	0.976	2.275
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			8.146								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/19/81-05/19/93	12	52.5	54.167	63.	49.	18.697	4.324	49.3	51.	57.5	62.1
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/19/81-05/19/93	12 ##	0.05	0.113	0.3	0.	0.011	0.107	0.015	0.05	0.2	0.3
71889p	PHOSPHATE, ORTHO, SOLUBLE, AS PO4 (MG/L)	06/29/77-06/02/94	34 ##	0.	0.003	0.025	0.	0.	0.005	0.	0.	0.005	0.01
71900	MERCURY, TOTAL (UG/L AS HG)	09/30/86-06/02/94	15 ##	0.5	0.433	0.5	0.	0.031	0.176	0.	0.5	0.5	0.5
82078p	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	10/05/70-06/02/94	95	0.4	0.696	11.	0.1	2.559	1.6	0.2	0.2	0.5	0.64
82079p	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	12/17/81-08/30/90	190	0.8	0.894	2.7	0.3	0.234	0.484	0.4	0.5	1.1	1.7

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

EPA Water Quality Criteria Analysis for Station: WHIS0029

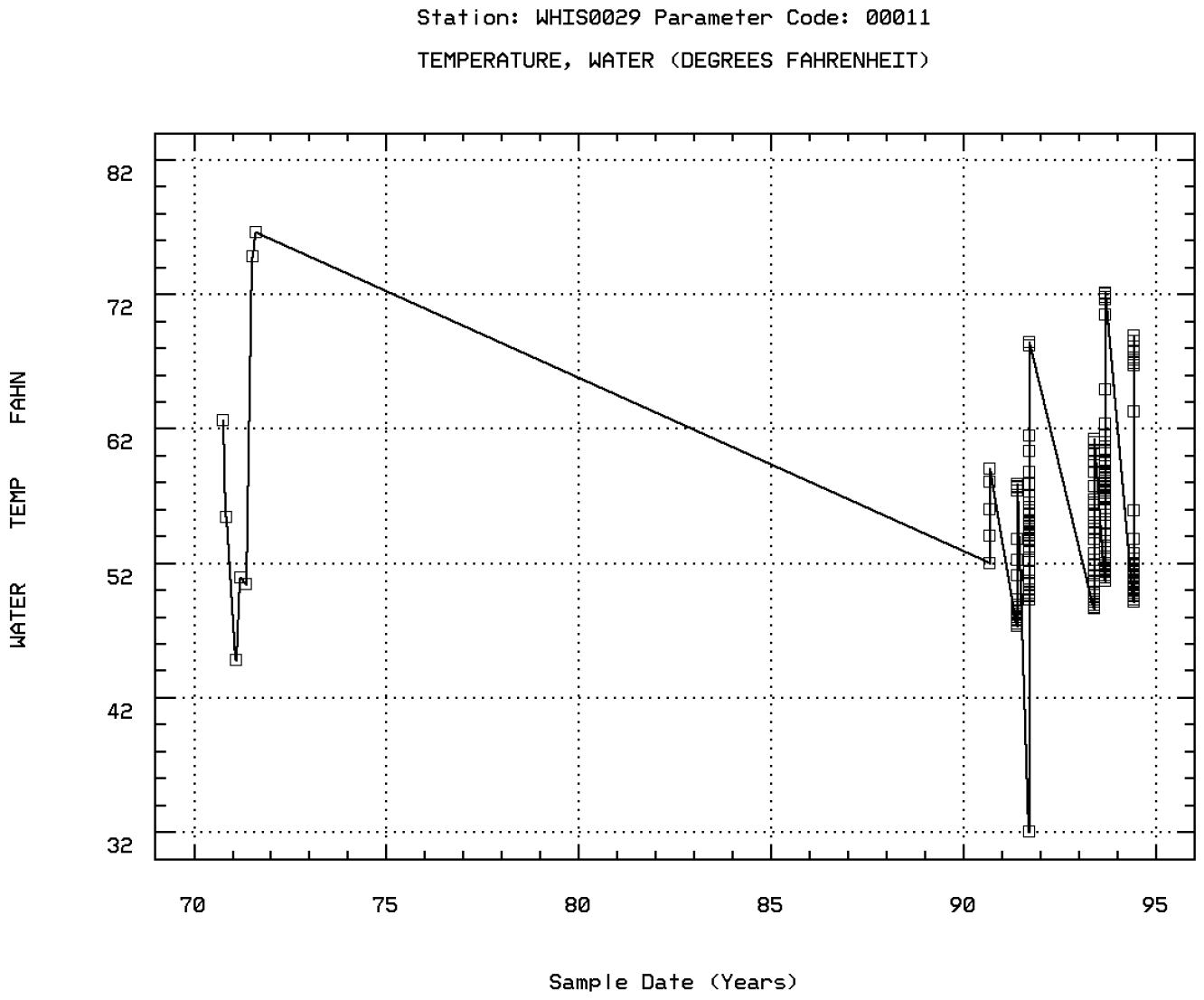
Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	1100	0	0.00	672	0	0.00	70	0	0.00	358	0	0.00			
00406	PH, FIELD	Fresh Chronic	9.	342	0	0.00	213	0	0.00	25	0	0.00	104	0	0.00			
		Other-Lo Lim.	6.5	342	0	0.00	213	0	0.00	25	0	0.00	104	0	0.00			
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	1	0	0.00	1	0	0.00									
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	8	0	0.00	8	0	0.00									
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	26	0	0.00	16	0	0.00	2	0	0.00	8	0	0.00			
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	20	0	0.00	13	0	0.00	1	0	0.00	6	0	0.00			
		Drinking Water	250.	20	0	0.00	13	0	0.00	1	0	0.00	6	0	0.00			
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	20	0	0.00	13	0	0.00	1	0	0.00	6	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	15	0	0.00	11	0	0.00				4	0	0.00			
		Drinking Water	50.	15	0	0.00	11	0	0.00				4	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	15	0	0.00	11	0	0.00				4	0	0.00			
		Drinking Water	5.	15	0	0.00	11	0	0.00				4	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	15	0	0.00	11	0	0.00				4	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	15	0	0.00	11	0	0.00				4	0	0.00			
		Drinking Water	1300.	15	0	0.00	11	0	0.00				4	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	15	0	0.00	11	0	0.00				4	0	0.00			
		Drinking Water	15.	15	0	0.00	11	0	0.00				4	0	0.00			
01067	NICKEL, TOTAL	Fresh Acute	1400.	9	0	0.00	6	0	0.00				3	0	0.00			
		Drinking Water	100.	9	0	0.00	6	0	0.00				3	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	15	0	0.00	11	0	0.00				4	0	0.00			
		Drinking Water	5000.	15	0	0.00	11	0	0.00				4	0	0.00			
01147	SELENIUM, TOTAL	Fresh Acute	20.	15	0	0.00	11	0	0.00				4	0	0.00			
		Drinking Water	50.	15	0	0.00	11	0	0.00				4	0	0.00			
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	Other-Hi Lim.	200.	20	2	0.10	18	2	0.11	2	0	0.00						
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	12	0	0.00	7	0	0.00	1	0	0.00	4	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	15	0	0.00	11	0	0.00				4	0	0.00			
		Drinking Water	2.	15	0	0.00	11	0	0.00				4	0	0.00			

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

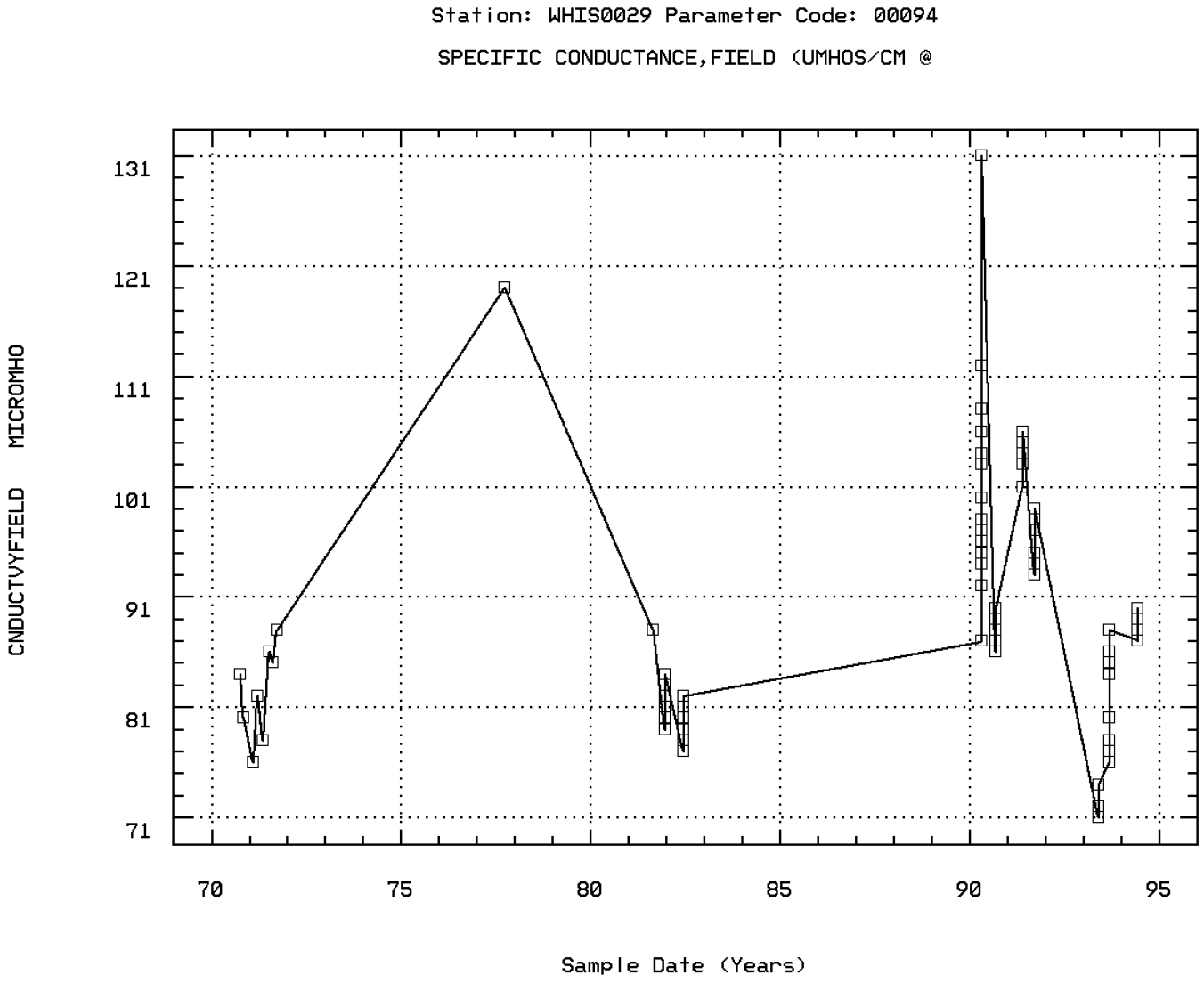
EPA Water Quality Criteria Analysis for Station: WHIS0029

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	95	0	0.00	62	0	0.00	1	0	0.00	32	0	0.00			
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	190	0	0.00	94	0	0.00	24	0	0.00	72	0	0.00			

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



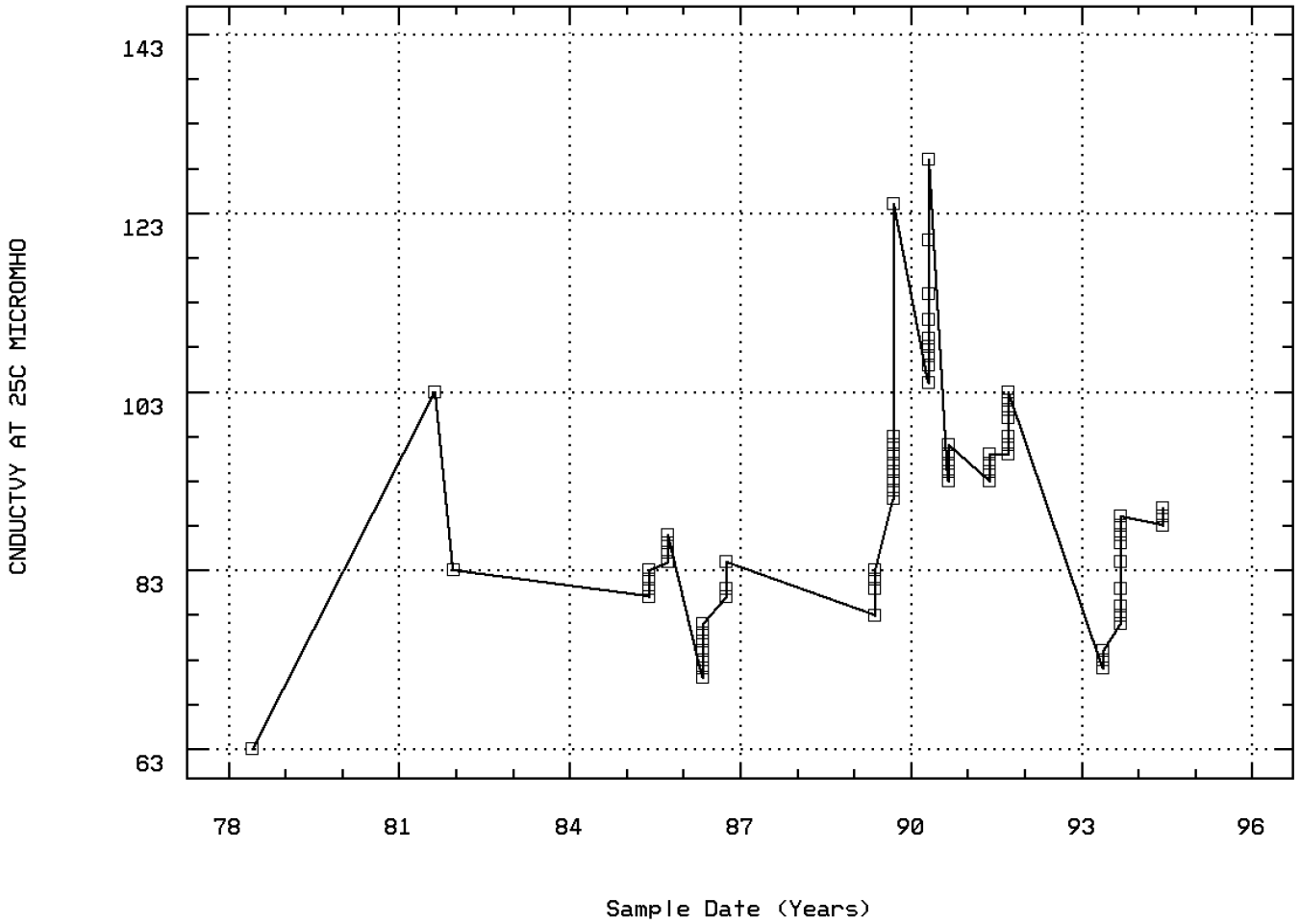
WHISKEYTOWN RESERVOIR



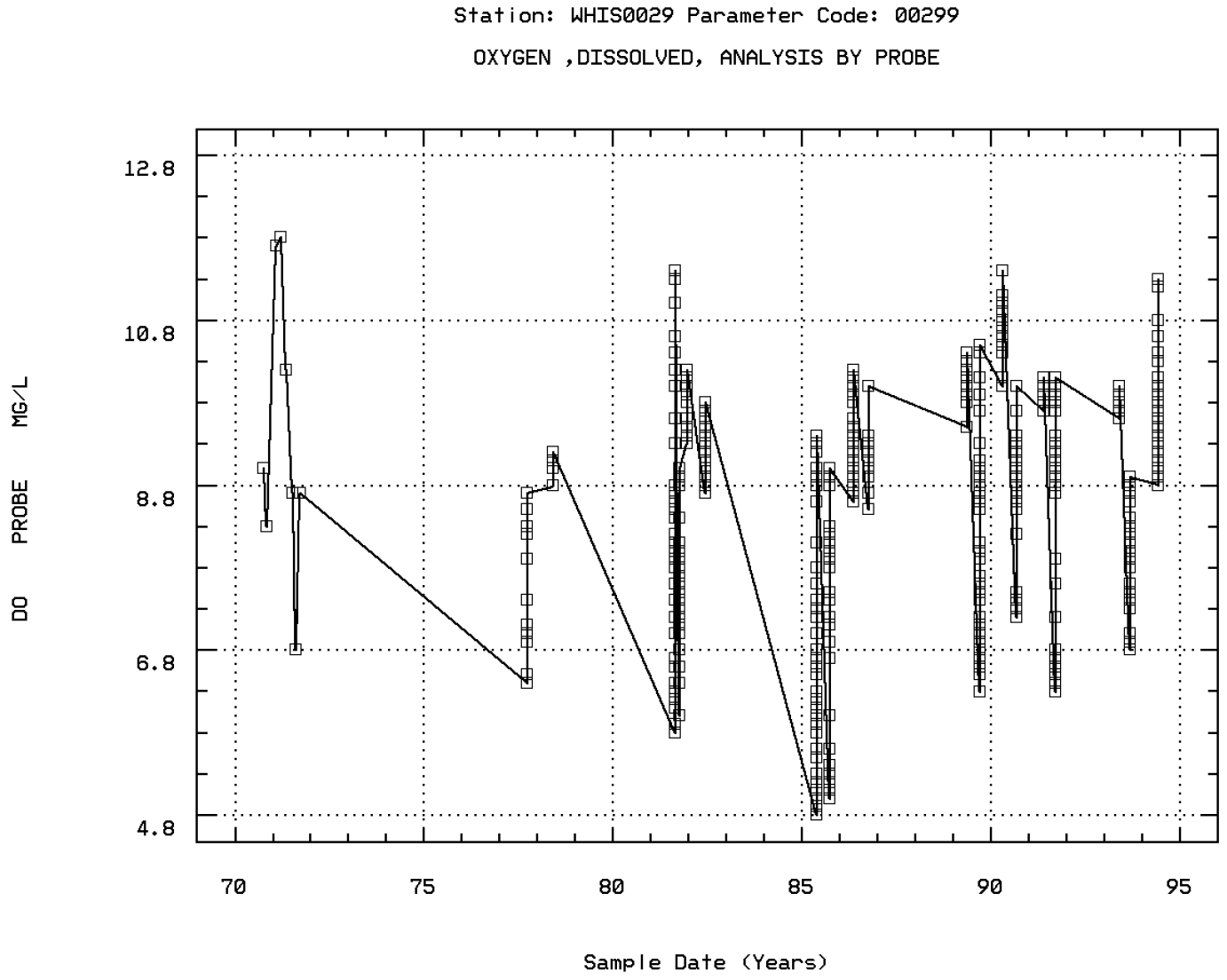
WHISKEYTOWN RESERVOIR

Station: WHIS0029 Parameter Code: 00095

SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)



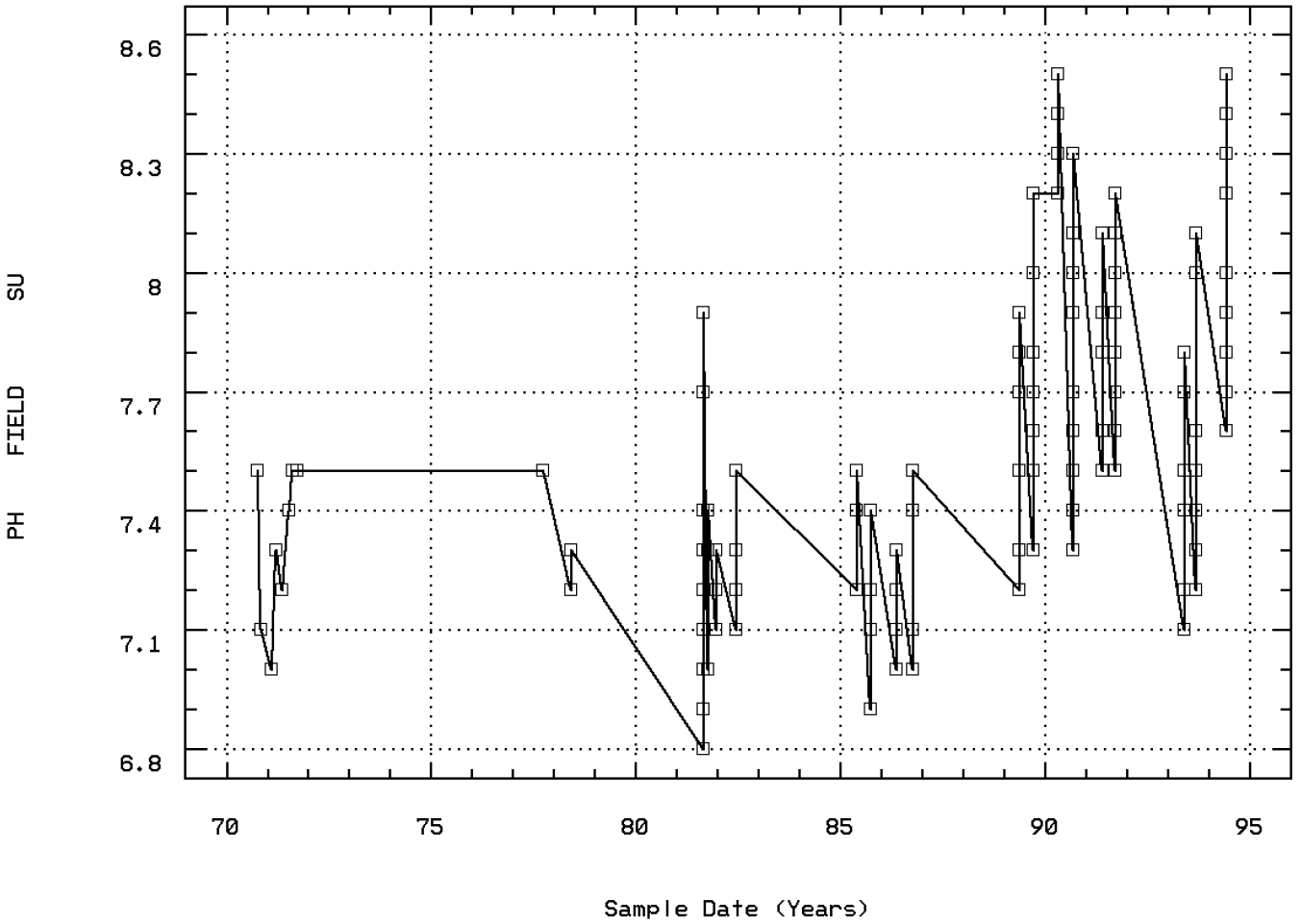
WHISKEYTOWN RESERVOIR



WHISKEYTOWN RESERVOIR

Station: WHIS0029 Parameter Code: 00406

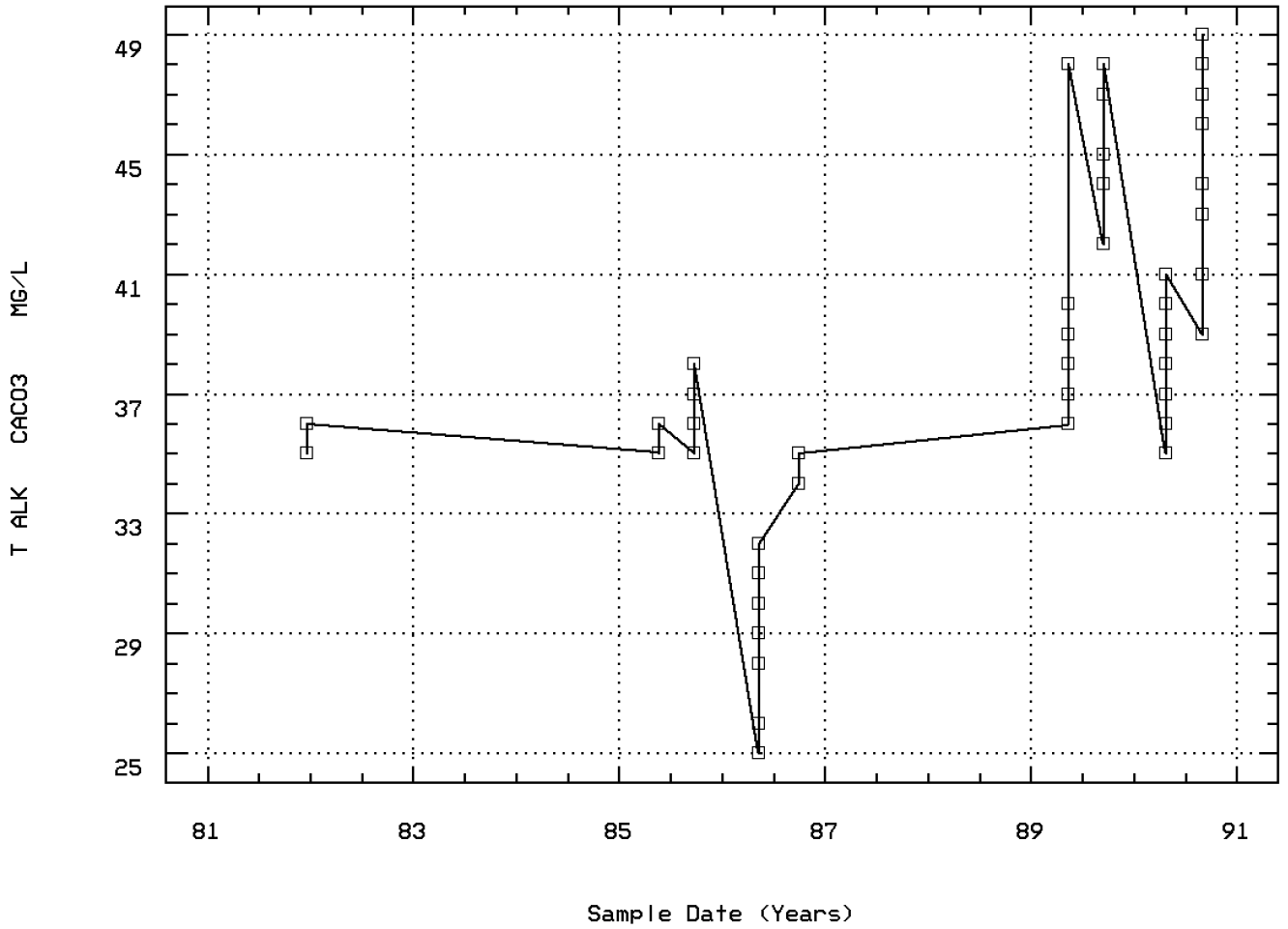
PH, FIELD, STANDARD UNITS



WHISKEYTOWN RESERVOIR

Station: WHIS0029 Parameter Code: 00410

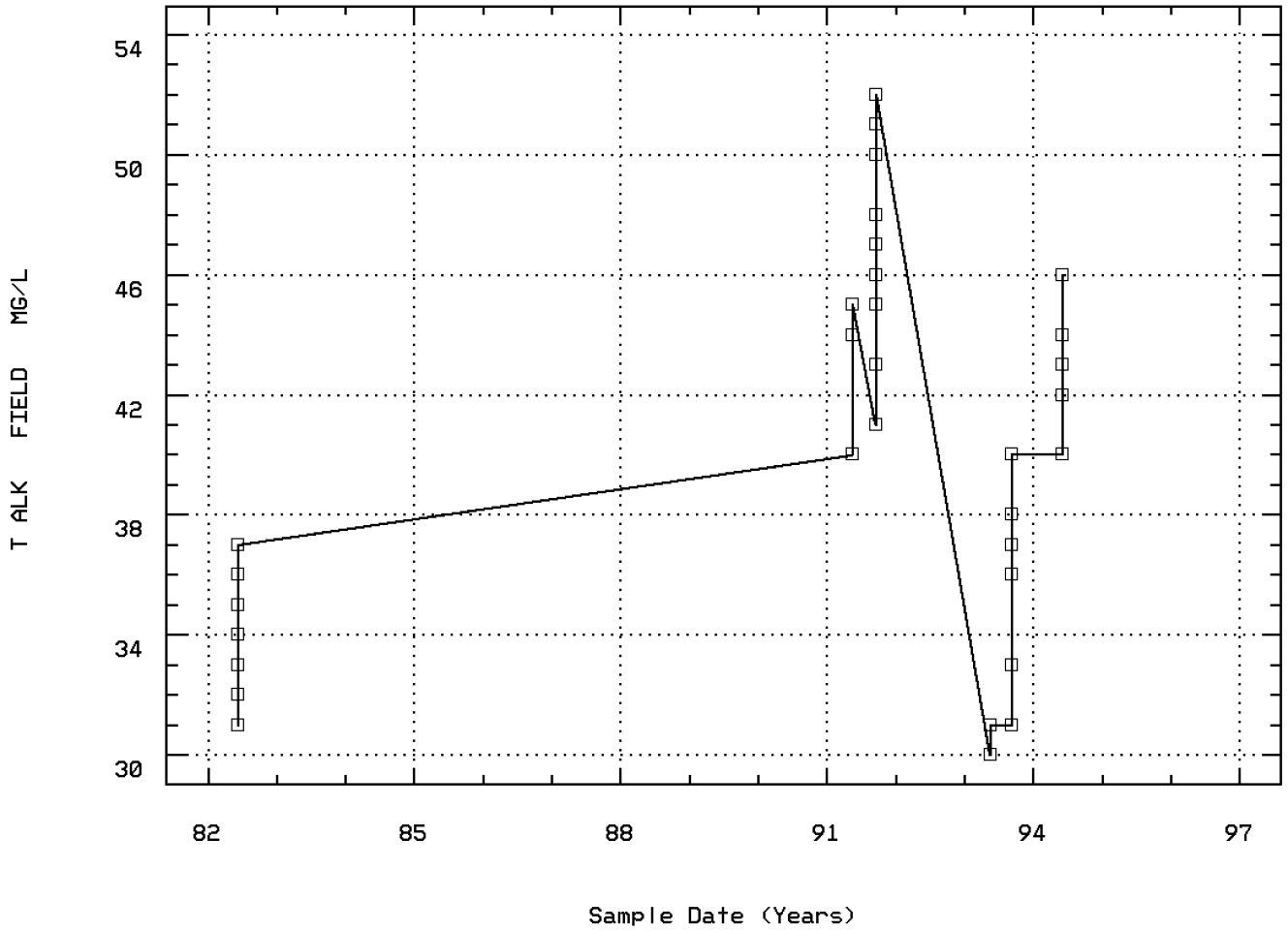
ALKALINITY, TOTAL (MG/L AS CACO3)



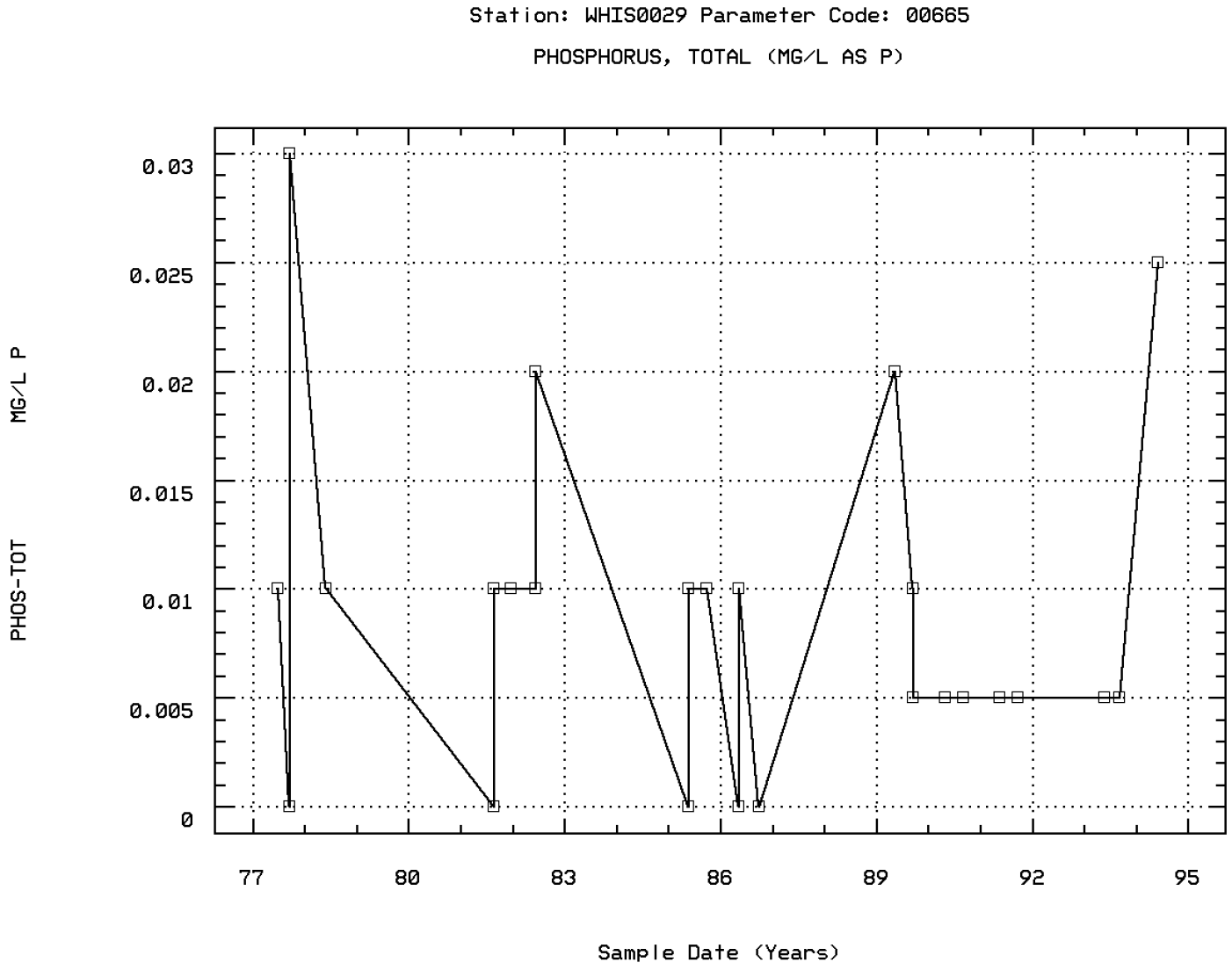
WHISKEYTOWN RESERVOIR

Station: WHIS0029 Parameter Code: 00431

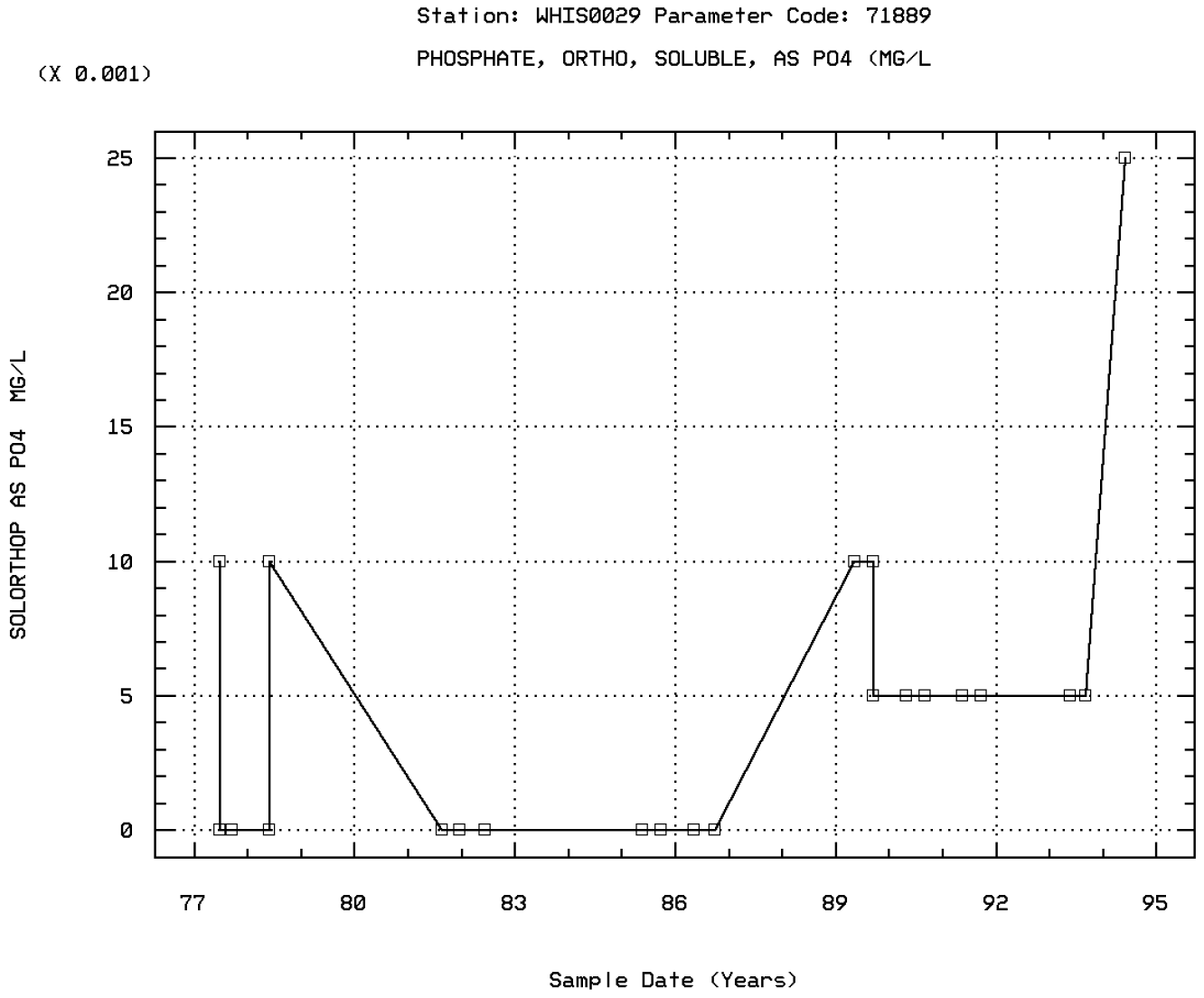
ALKALINITY TOATL FIELD, (MG/L AS CACO3)



WHISKEYTOWN RESERVOIR



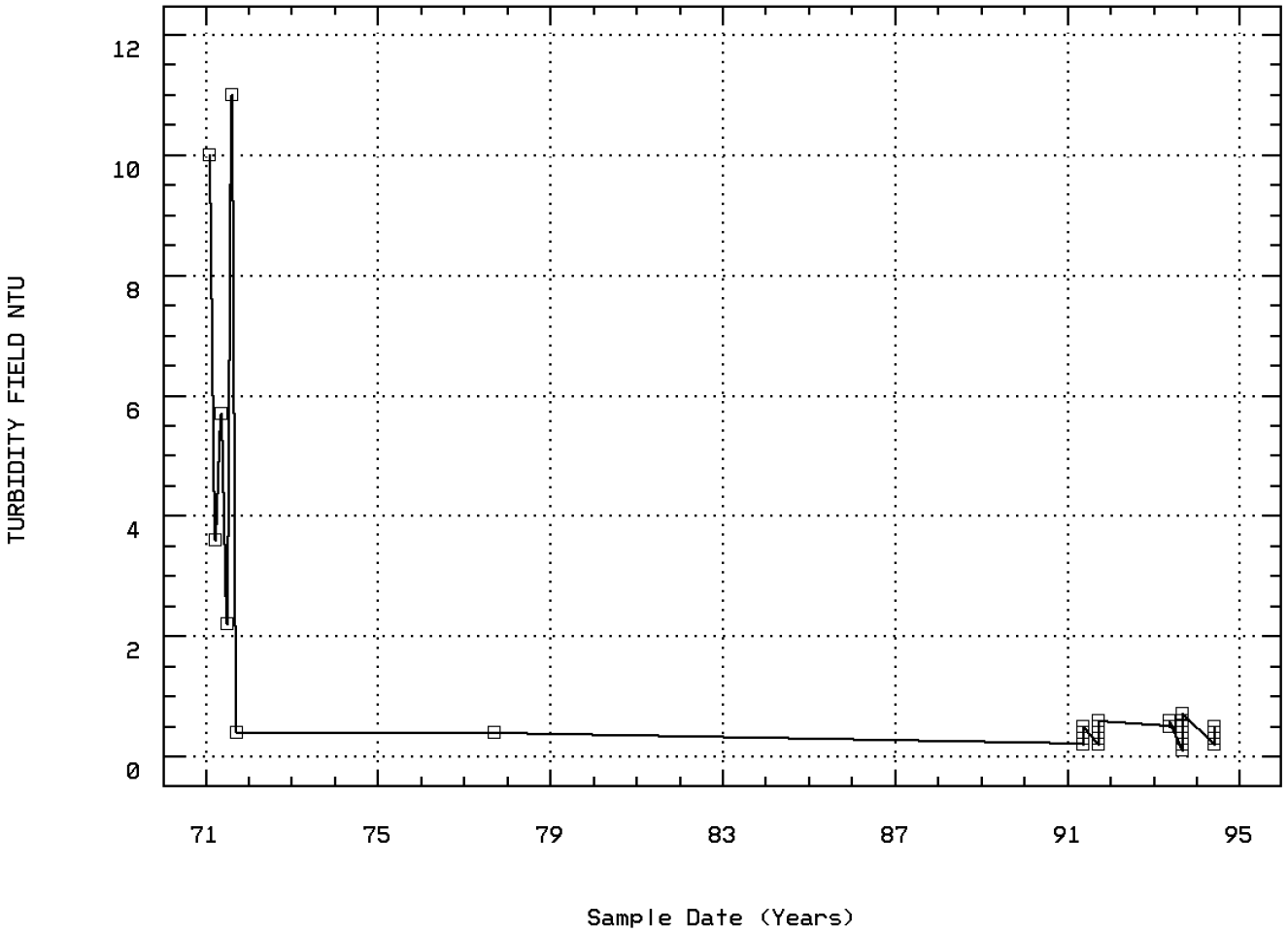
WHISKEYTOWN RESERVOIR



WHISKEYTOWN RESERVOIR

Station: WHIS0029 Parameter Code: 82078

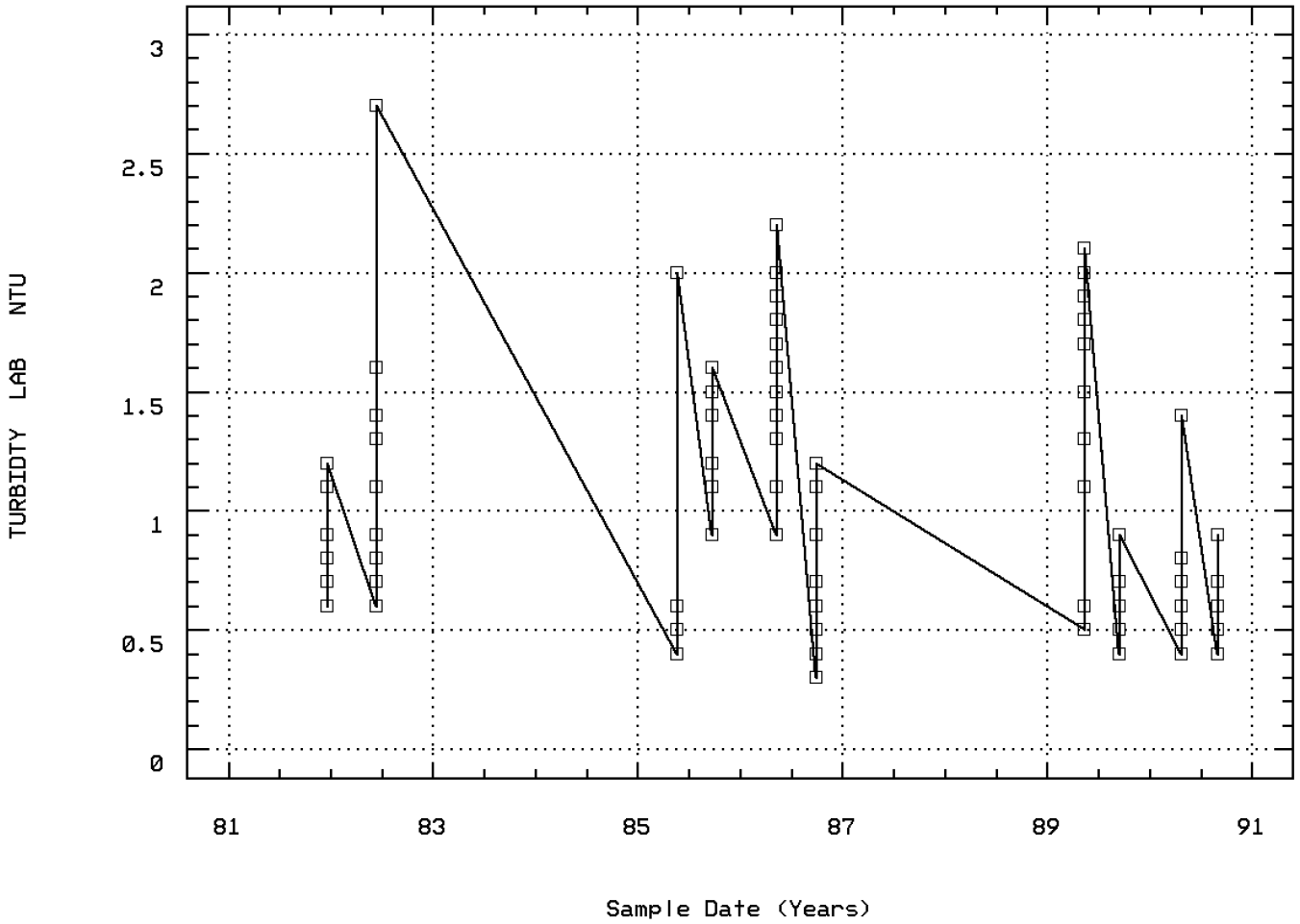
TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY



WHISKEYTOWN RESERVOIR

Station: WHIS0029 Parameter Code: 82079

TURBIDITY,LAB NEPHELOMETRIC TURBIDITY U



WHISKEYTOWN RESERVOIR

Annual Analysis for 1970 - Station WHIS0029

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/05/70-06/02/94	2	82.	82.	84.	80.	8.	2.828	**	**	**	**
00299p	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	10/05/70-06/02/94	2	8.65	8.65	9.	8.3	0.245	0.495	**	**	**	**
00406p	PH, FIELD, STANDARD UNITS SU	10/05/70-06/02/94	2	7.3	7.3	7.5	7.1	0.08	0.283	**	**	**	**
00406p	CONVERTED PH, FIELD, STANDARD UNITS	10/05/70-06/02/94	2	7.255	7.255	7.5	7.1	0.084	0.29	**	**	**	**
00406p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/05/70-06/02/94	2	0.056	0.056	0.079	0.032	0.001	0.034	**	**	**	**

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

Annual Analysis for 1971 - Station WHIS0029

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/21/71-06/02/94	1	18.7	18.7	18.7	18.7	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/05/70-06/02/94	6	83.5	82.5	88.	76.	22.3	4.722	**	**	**	**
00299p	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	10/05/70-06/02/94	6	9.45	9.65	11.8	6.8	3.811	1.952	**	**	**	**
00406p	PH, FIELD, STANDARD UNITS SU	10/05/70-06/02/94	6	7.35	7.317	7.5	7.	0.038	0.194	**	**	**	**
00406p	CONVERTED PH, FIELD, STANDARD UNITS	10/05/70-06/02/94	6	7.347	7.278	7.5	7.	0.039	0.199	**	**	**	**
00406p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/05/70-06/02/94	6	0.045	0.053	0.1	0.032	0.001	0.026	**	**	**	**

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

Annual Analysis for 1977 - Station WHIS0029

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/21/71-06/02/94	32	18.6	17.881	19.4	15.8	1.772	1.331	15.83	16.35	18.9	19.34
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/05/70-06/02/94	1	119.	119.	119.	119.	0.	0.	**	**	**	**
00299p	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	10/05/70-06/02/94	32	7.65	7.622	8.7	6.4	0.768	0.876	6.4	6.9	8.5	8.5
00406p	PH, FIELD, STANDARD UNITS SU	10/05/70-06/02/94	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00406p	CONVERTED PH, FIELD, STANDARD UNITS	10/05/70-06/02/94	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00406p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/05/70-06/02/94	1	0.032	0.032	0.032	0.032	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0029

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/21/71-06/02/94	42	11.9	13.469	20.3	9.9	12.846	3.584	10.2	10.4	16.275	19.6
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/01/78-06/02/94	1	63.	63.	63.	63.	0.	0.	**	**	**	**
00299p	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	10/05/70-06/02/94	14	9.05	8.979	9.2	8.8	0.028	0.167	8.8	8.8	9.1	9.2
00406p	PH, FIELD, STANDARD UNITS SU	10/05/70-06/02/94	3	7.3	7.267	7.3	7.2	0.003	0.058	**	**	**	**
00406p	CONVERTED PH, FIELD, STANDARD UNITS	10/05/70-06/02/94	3	7.3	7.264	7.3	7.2	0.003	0.058	**	**	**	**
00406p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/05/70-06/02/94	3	0.05	0.054	0.063	0.05	0.	0.007	**	**	**	**

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

Annual Analysis for 1981 - Station WHIS0029

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/21/71-06/02/94	175	11.1	11.859	23.3	8.5	10.842	3.293	8.5	9.3	13.5	16.7
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/05/70-06/02/94	25	82.	82.08	88.	79.	2.827	1.681	80.	81.	83.	83.4
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/01/78-06/02/94	2	93.	93.	103.	83.	200.	14.142	**	**	**	**
00299p	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	10/05/70-06/02/94	175	8.9	8.653	11.4	5.8	1.62	1.273	6.92	7.6	9.6	10.1

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

Annual Analysis for 1981 - Station WHIS0029

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00406p	PH, FIELD, STANDARD UNITS SU	10/05/70-06/02/94	79	7.1	7.125	7.9	6.8	0.037	0.192	7.	7.	7.2	7.4
00406p	CONVERTED PH, FIELD, STANDARD UNITS	10/05/70-06/02/94	79	7.1	7.091	7.9	6.8	0.038	0.195	7.	7.	7.2	7.4
00406p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/05/70-06/02/94	79	0.079	0.081	0.158	0.013	0.001	0.028	0.04	0.063	0.1	0.1
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/17/81-08/30/90	24	36.	35.625	36.	35.	0.245	0.495	35.	35.	36.	36.
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	12/17/81-08/30/90	24	0.85	0.863	1.2	0.6	0.022	0.15	0.65	0.8	1.	1.05

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

Annual Analysis for 1982 - Station WHIS0029

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/21/71-06/02/94	61	9.9	11.338	19.6	8.8	11.327	3.366	8.82	9.05	11.95	18.66
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/05/70-06/02/94	21	80.	79.857	82.	77.	2.829	1.682	78.	78.	81.	82.
00299p	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	10/05/70-06/02/94	61	9.	9.079	9.8	8.7	0.084	0.29	8.8	8.8	9.25	9.6
00406p	PH, FIELD, STANDARD UNITS SU	10/05/70-06/02/94	21	7.2	7.238	7.5	7.1	0.018	0.136	7.1	7.1	7.3	7.5
00406p	CONVERTED PH, FIELD, STANDARD UNITS	10/05/70-06/02/94	21	7.2	7.219	7.5	7.1	0.019	0.137	7.1	7.1	7.3	7.5
00406p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/05/70-06/02/94	21	0.063	0.06	0.079	0.032	0.	0.017	0.032	0.05	0.079	0.079
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/10/82-06/02/94	21	33.	33.571	37.	31.	2.657	1.63	32.	32.	35.	35.8
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	12/17/81-08/30/90	21	1.	1.11	2.7	0.6	0.193	0.439	0.72	0.9	1.3	1.56

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

Annual Analysis for 1985 - Station WHIS0029

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/21/71-06/02/94	117	11.7	12.199	17.8	8.5	9.328	3.054	8.8	9.8	13.9	17.8
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/01/78-06/02/94	33	84.	83.152	87.	80.	3.695	1.922	80.	81.5	84.	86.
00299p	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	10/05/70-06/02/94	117	7.8	7.16	9.4	4.8	2.082	1.443	5.2	5.6	8.1	9.
00406p	PH, FIELD, STANDARD UNITS SU	10/05/70-06/02/94	33	7.2	7.218	7.5	6.9	0.032	0.178	6.9	7.1	7.4	7.46
00406p	CONVERTED PH, FIELD, STANDARD UNITS	10/05/70-06/02/94	33	7.2	7.183	7.5	6.9	0.033	0.181	6.9	7.1	7.4	7.46
00406p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/05/70-06/02/94	33	0.063	0.066	0.126	0.032	0.001	0.028	0.035	0.04	0.079	0.126
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/17/81-08/30/90	13	36.	36.077	38.	35.	1.077	1.038	35.	35.	36.5	38.
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	12/17/81-08/30/90	33	1.	0.882	2.	0.4	0.18	0.424	0.4	0.5	1.05	1.5

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

Annual Analysis for 1986 - Station WHIS0029

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/21/71-06/02/94	124	10.9	11.132	15.6	9.	3.807	1.951	9.1	9.2	12.275	15.2
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/01/78-06/02/94	38	76.5	76.763	84.	71.	16.564	4.07	71.	73.	81.	81.
00299p	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	10/05/70-06/02/94	124	9.3	9.344	10.2	8.5	0.195	0.442	8.75	9.	9.75	10.
00406p	PH, FIELD, STANDARD UNITS SU	10/05/70-06/02/94	38	7.1	7.179	7.5	7.	0.018	0.134	7.09	7.1	7.3	7.4
00406p	CONVERTED PH, FIELD, STANDARD UNITS	10/05/70-06/02/94	38	7.1	7.161	7.5	7.	0.018	0.135	7.09	7.1	7.3	7.4
00406p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/05/70-06/02/94	38	0.079	0.069	0.1	0.032	0.	0.019	0.04	0.05	0.079	0.081
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/17/81-08/30/90	27	30.	30.667	35.	25.	6.692	2.587	27.6	30.	32.	35.
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	12/17/81-08/30/90	38	1.05	1.129	2.2	0.3	0.299	0.547	0.39	0.675	1.625	1.81

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

Annual Analysis for 1989 - Station WHIS0029

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/21/71-06/02/94	140	10.05	11.036	20.	7.	10.938	3.307	7.9	8.2	12.1	16.9
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/01/78-06/02/94	37	91.	88.703	124.	78.	88.548	9.41	78.	81.	95.5	98.
00299p	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	10/05/70-06/02/94	140	9.5	9.139	10.5	6.3	1.416	1.19	7.	8.7	10.175	10.3
00406p	PH, FIELD, STANDARD UNITS SU	10/05/70-06/02/94	37	7.5	7.511	8.2	7.2	0.101	0.318	7.2	7.2	7.7	8.04
00406p	CONVERTED PH, FIELD, STANDARD UNITS	10/05/70-06/02/94	37	7.5	7.419	8.2	7.2	0.11	0.331	7.2	7.2	7.7	8.04
00406p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/05/70-06/02/94	37	0.032	0.038	0.063	0.006	0.	0.021	0.009	0.02	0.063	0.063
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/17/81-08/30/90	16	42.	42.188	48.	36.	17.629	4.199	36.	38.25	46.5	48.
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	12/17/81-08/30/90	37	0.6	0.943	2.1	0.4	0.364	0.603	0.4	0.5	1.6	1.92

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

Annual Analysis for 1990 - Station WHIS0029

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/21/71-06/02/94	103	8.9	11.272	19.7	7.3	17.987	4.241	7.3	7.4	14.1	18.34
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/05/70-06/02/94	37	90.	95.054	131.	86.	94.441	9.718	87.	88.	101.5	108.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/01/78-06/02/94	37	97.	102.054	129.	93.	74.886	8.654	94.	95.	108.	111.6
00299p	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	10/05/70-06/02/94	109	10.1	9.841	11.4	7.2	0.796	0.892	8.9	9.	10.5	10.7
00406p	PH, FIELD, STANDARD UNITS SU	10/05/70-06/02/94	37	8.3	8.057	8.5	7.3	0.171	0.413	7.4	7.6	8.4	8.5
00406p	CONVERTED PH, FIELD, STANDARD UNITS	10/05/70-06/02/94	37	8.3	7.855	8.5	7.3	0.213	0.461	7.4	7.6	8.4	8.5
00406p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/05/70-06/02/94	37	0.005	0.014	0.05	0.003	0.	0.014	0.003	0.004	0.025	0.04
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/17/81-08/30/90	19	41.	41.263	49.	35.	17.427	4.175	36.	38.	44.	48.
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	12/17/81-08/30/90	37	0.4	0.514	1.4	0.4	0.039	0.197	0.4	0.4	0.6	0.72

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

Annual Analysis for 1991 - Station WHIS0029

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/21/71-06/02/94	138	9.8	11.171	20.2	8.5	8.474	2.911	8.5	8.6	12.7	14.4
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/05/70-06/02/94	37	101.	100.73	106.	93.	19.536	4.42	93.8	97.5	105.	106.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/01/78-06/02/94	38	96.	97.447	103.	93.	8.47	2.91	94.	95.	101.	102.
00299p	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	10/05/70-06/02/94	138	9.8	9.128	10.1	6.3	1.581	1.257	6.6	8.8	10.	10.1
00406p	PH, FIELD, STANDARD UNITS SU	10/05/70-06/02/94	37	7.8	7.732	8.2	7.5	0.048	0.22	7.5	7.5	7.9	8.1
00406p	CONVERTED PH, FIELD, STANDARD UNITS	10/05/70-06/02/94	37	7.8	7.682	8.2	7.5	0.051	0.226	7.5	7.5	7.9	8.1
00406p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/05/70-06/02/94	37	0.016	0.021	0.032	0.006	0.	0.009	0.008	0.013	0.032	0.032
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/10/82-06/02/94	17	45.	46.	52.	40.	11.125	3.335	40.8	44.5	49.	51.2

** - 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 1993 - Station WHIS0029

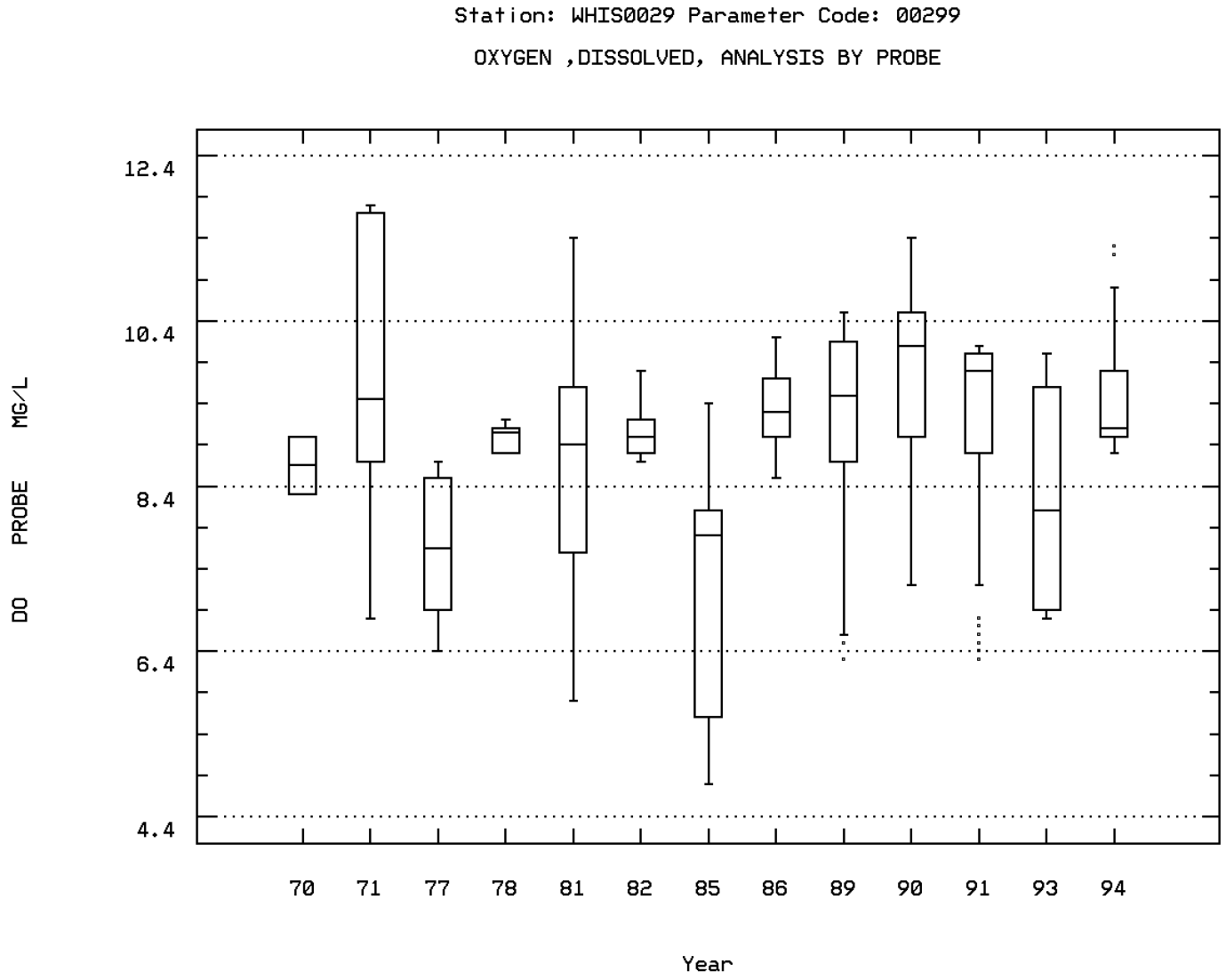
Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/21/71-06/02/94	111	12.8	13.561	22.3	9.2	13.389	3.659	10.4	10.4	15.3	21.88
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/05/70-06/02/94	31	77.	77.774	88.	71.	34.981	5.914	71.	72.	85.	86.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/01/78-06/02/94	30	78.	79.2	89.	72.	34.924	5.91	72.	74.	86.	87.9
00299p	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	10/05/70-06/02/94	111	8.1	8.227	10.	6.8	1.444	1.202	6.8	6.9	9.6	9.9
00406p	PH, FIELD, STANDARD UNITS SU	10/05/70-06/02/94	31	7.4	7.461	8.1	7.1	0.09	0.301	7.1	7.2	7.6	8.
00406p	CONVERTED PH, FIELD, STANDARD UNITS	10/05/70-06/02/94	31	7.4	7.377	8.1	7.1	0.098	0.313	7.1	7.2	7.6	8.
00406p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/05/70-06/02/94	31	0.04	0.042	0.079	0.008	0.001	0.023	0.01	0.025	0.063	0.079
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/10/82-06/02/94	16	32.	33.25	40.	30.	10.733	3.276	30.	31.	36.75	38.6

** - 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

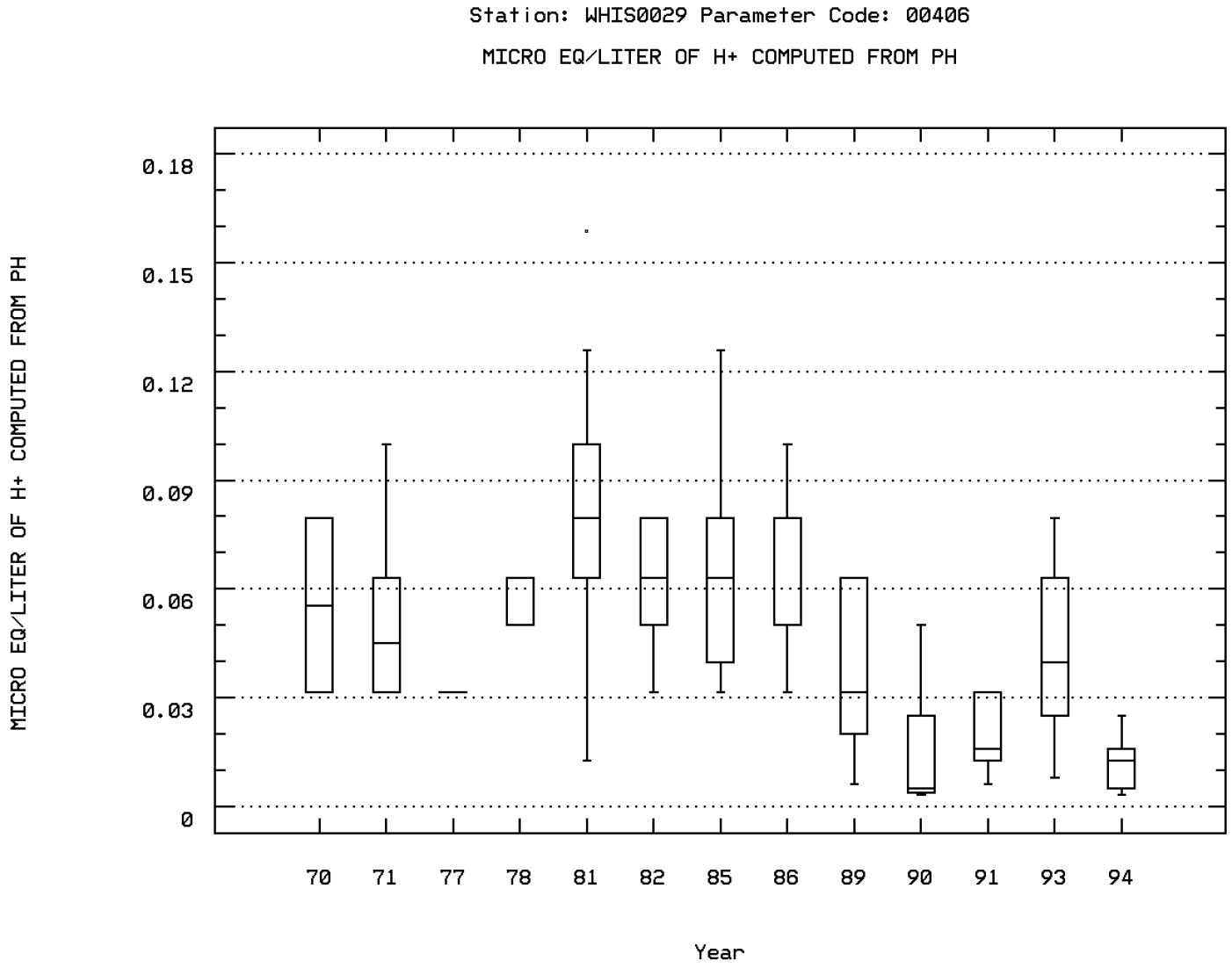
Annual Analysis for 1994 - Station WHIS0029

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/21/71-06/02/94	71	10.2	11.499	20.5	9.5	11.038	3.322	9.6	9.6	10.8	19.38
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/05/70-06/02/94	17	88.	88.529	90.	87.	0.64	0.8	87.8	88.	89.	90.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/01/78-06/02/94	17	89.	89.353	90.	88.	0.368	0.606	88.8	89.	90.	90.
00299p	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	10/05/70-06/02/94	71	9.1	9.377	11.3	8.8	0.349	0.591	8.8	9.	9.8	10.26
00406p	PH, FIELD, STANDARD UNITS SU	10/05/70-06/02/94	17	7.9	8.029	8.5	7.6	0.087	0.295	7.6	7.8	8.3	8.42
00406p	CONVERTED PH, FIELD, STANDARD UNITS	10/05/70-06/02/94	17	7.9	7.941	8.5	7.6	0.096	0.309	7.6	7.8	8.3	8.42
00406p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/05/70-06/02/94	17	0.013	0.011	0.025	0.003	0.	0.007	0.004	0.005	0.016	0.025
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/10/82-06/02/94	9	43.	42.889	46.	40.	2.861	1.691	40.	42.	44.	46.

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



WHISKEYTOWN RESERVOIR



WHISKEYTOWN RESERVOIR

Seasonal Analysis for Season #1: 6/01 to 11/09 - Station WHIS0029

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/21/71-06/02/94	690	11.95	13.06	23.3	8.8	11.408	3.378	9.7	10.5	14.825	18.9
00011p	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	10/05/70-06/02/94	225	52.	54.965	76.6	32.	47.15	6.867	49.3	50.4	57.65	67.96
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/05/70-06/02/94	102	88.	86.814	119.	76.	51.143	7.151	78.	81.	89.25	97.7
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/01/78-06/02/94	130	89.5	89.846	124.	63.	63.542	7.971	81.	84.	95.	100.
00299p	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	10/05/70-06/02/94	672	8.8	8.347	11.4	5.	1.346	1.16	6.8	7.5	9.1	9.6
00406p	PH, FIELD, STANDARD UNITS SU	10/05/70-06/02/94	213	7.4	7.412	8.5	6.8	0.153	0.391	7.	7.1	7.6	8.
00406p	CONVERTED PH, FIELD, STANDARD UNITS	10/05/70-06/02/94	213	7.4	7.275	8.5	6.8	0.172	0.415	7.	7.1	7.6	8.
00406p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/05/70-06/02/94	213	0.04	0.053	0.158	0.003	0.001	0.036	0.01	0.025	0.079	0.1
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	12/17/81-08/30/90	32	42.	40.844	49.	34.	24.394	4.939	34.3	36.	44.75	47.7
00431p	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/10/82-06/02/94	50	36.	38.26	52.	31.	38.033	6.167	32.	33.	43.	47.9
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	09/20/77-06/02/94	22 ##	0.005	0.01	0.05	0.	0.	0.014	0.	0.	0.01	0.04
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/19/81-09/07/93	16	0.025	0.027	0.06	0.	0.001	0.024	0.	0.005	0.05	0.06
00635	NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	06/29/77-06/02/94	19 ##	0.05	0.071	0.3	0.	0.005	0.067	0.	0.05	0.1	0.1
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/29/77-06/02/94	24 ##	0.01	0.009	0.03	0.	0.	0.007	0.	0.005	0.01	0.023
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/19/81-06/02/94	15	40.	37.933	48.	28.	24.924	4.992	30.4	33.	40.	45.6
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/19/81-06/02/94	15	6.	5.667	6.	5.	0.238	0.488	5.	5.	6.	6.
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/19/81-06/02/94	15	6.	5.733	8.	3.	1.352	1.163	3.6	5.	6.	7.4
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/19/81-06/02/94	15	3.	2.533	3.	2.	0.267	0.516	2.	2.	3.	3.
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/19/81-06/02/94	15	0.4	0.42	0.7	0.3	0.01	0.101	0.3	0.4	0.5	0.58
00941	CHLORIDE, DISSOLVED IN WATER MG/L	08/19/81-06/02/94	13	2.	1.692	2.	1.	0.231	0.48	1.	1.	2.	2.
00946	SULFATE, DISSOLVED (MG/L AS SO4)	08/19/81-06/02/94	13	3.	3.	4.	2.	0.5	0.707	2.	2.5	3.5	4.
01002	ARSENIC, TOTAL (UG/L AS AS)	09/30/86-06/02/94	11 ##	0.5	0.5	1.	0.	0.05	0.224	0.1	0.5	0.5	0.9
01020	BORON, DISSOLVED (UG/L AS B)	08/19/81-06/02/94	15 ##	50.	36.667	100.	0.	880.952	29.681	0.	0.	50.	70.
01027	CADMIUM, TOTAL (UG/L AS CD)	09/30/86-06/02/94	11 ##	2.5	2.318	2.5	0.5	0.364	0.603	0.9	2.5	2.5	2.5
01034	CHROMIUM, TOTAL (UG/L AS CR)	09/30/86-06/02/94	11 ##	2.5	2.364	5.	0.5	1.405	1.185	0.5	2.5	2.5	4.5
01042	COPPER, TOTAL (UG/L AS CU)	09/30/86-06/02/94	11 ##	2.5	2.727	5.	2.5	0.568	0.754	2.5	2.5	2.5	4.5
01045	IRON, TOTAL (UG/L AS FE)	09/30/86-06/02/94	11	50.	71.364	200.	10.	2933.255	54.16	11.6	25.	100.	180.4
01051	LEAD, TOTAL (UG/L AS PB)	09/30/86-06/02/94	11 ##	2.5	2.409	2.5	1.5	0.091	0.302	1.7	2.5	2.5	2.5
01055	MANGANESE, TOTAL (UG/L AS MN)	09/30/86-06/02/94	11 ##	5.	10.318	30.	2.5	96.514	9.824	2.5	2.5	19.	28.6
01092	ZINC, TOTAL (UG/L AS ZN)	09/30/86-06/02/94	11 ##	2.5	3.182	5.	2.5	1.364	1.168	2.5	2.5	5.	5.
01147	SELENIUM, TOTAL (UG/L AS SE)	09/30/86-06/02/94	11 ##	0.5	0.409	0.5	0.	0.041	0.202	0.	0.5	0.5	0.5
71889	PHOSPHATE, ORTHO, SOLUBLE, AS PO4 (MG/L)	06/29/77-06/02/94	24 ##	0.	0.004	0.025	0.	0.	0.006	0.	0.	0.005	0.01
71900	MERCURY, TOTAL (UG/L AS HG)	09/30/86-06/02/94	11 ##	0.5	0.409	0.5	0.	0.041	0.202	0.	0.5	0.5	0.5
82078p	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	10/05/70-06/02/94	62	0.3	0.556	11.	0.1	1.905	1.38	0.2	0.2	0.4	0.67
82079p	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	12/17/81-08/30/90	94	0.7	0.795	2.7	0.3	0.158	0.397	0.4	0.4	1.	1.35

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

Seasonal Analysis for Season #2: 11/10 to 2/20 - Station WHIS0029

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/21/71-06/02/94	69	8.8	8.948	9.6	8.5	0.209	0.457	8.5	8.5	9.5	9.5
00011p	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	10/05/70-06/02/94	1	44.8	44.8	44.8	44.8	0.	0.	**	**	**	**
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/05/70-06/02/94	25	82.	81.6	84.	76.	2.667	1.633	79.6	81.	83.	83.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/01/78-06/02/94	1	83.	83.	83.	83.	0.	0.	**	**	**	**
00299p	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	10/05/70-06/02/94	70	9.6	9.737	11.7	9.3	0.14	0.375	9.4	9.5	10.	10.2
00406p	PH, FIELD, STANDARD UNITS SU	10/05/70-06/02/94	25	7.2	7.188	7.3	7.	0.009	0.097	7.1	7.1	7.3	7.3
00406p	CONVERTED PH, FIELD, STANDARD UNITS	10/05/70-06/02/94	25	7.2	7.178	7.3	7.	0.01	0.098	7.1	7.1	7.3	7.3
00406p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/05/70-06/02/94	25	0.063	0.066	0.1	0.05	0.	0.015	0.05	0.05	0.079	0.079
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	12/17/81-08/30/90	24	36.	35.625	36.	35.	0.245	0.495	35.	35.	36.	36.
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	09/20/77-06/02/94	2	0.015	0.015	0.02	0.01	0.	0.007	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/19/81-09/07/93	2	0.045	0.045	0.05	0.04	0.	0.007	**	**	**	**
00635	NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	06/29/77-06/02/94	2 ##	0.1	0.1	0.2	0.	0.02	0.141	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/29/77-06/02/94	2	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/19/81-06/02/94	1	37.	37.	37.	37.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/19/81-06/02/94	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/19/81-06/02/94	1	6.	6.	6.	6.	0.	0.	**	**	**	**

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Seasonal Analysis for Season #2: 11/10 to 2/20 - Station WHIS0029

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/19/81-06/02/94	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/19/81-06/02/94	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	08/19/81-06/02/94	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	08/19/81-06/02/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	08/19/81-06/02/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
71889	HOSPHATE, ORTHO, SOLUBLE, AS PO4 (MG/L)	6/29/77-06/02/94	2# #	0.	0.	0.	0.	0.	0.	**	**	**	**
82078p	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	10/05/70-06/02/94	1	10.	10.	10.	10.	0.	0.	**	**	**	**
82079p	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	12/17/81-08/30/90	24	0.85	0.863	1.2	0.6	0.022	0.15	0.65	0.8	1.	1.05

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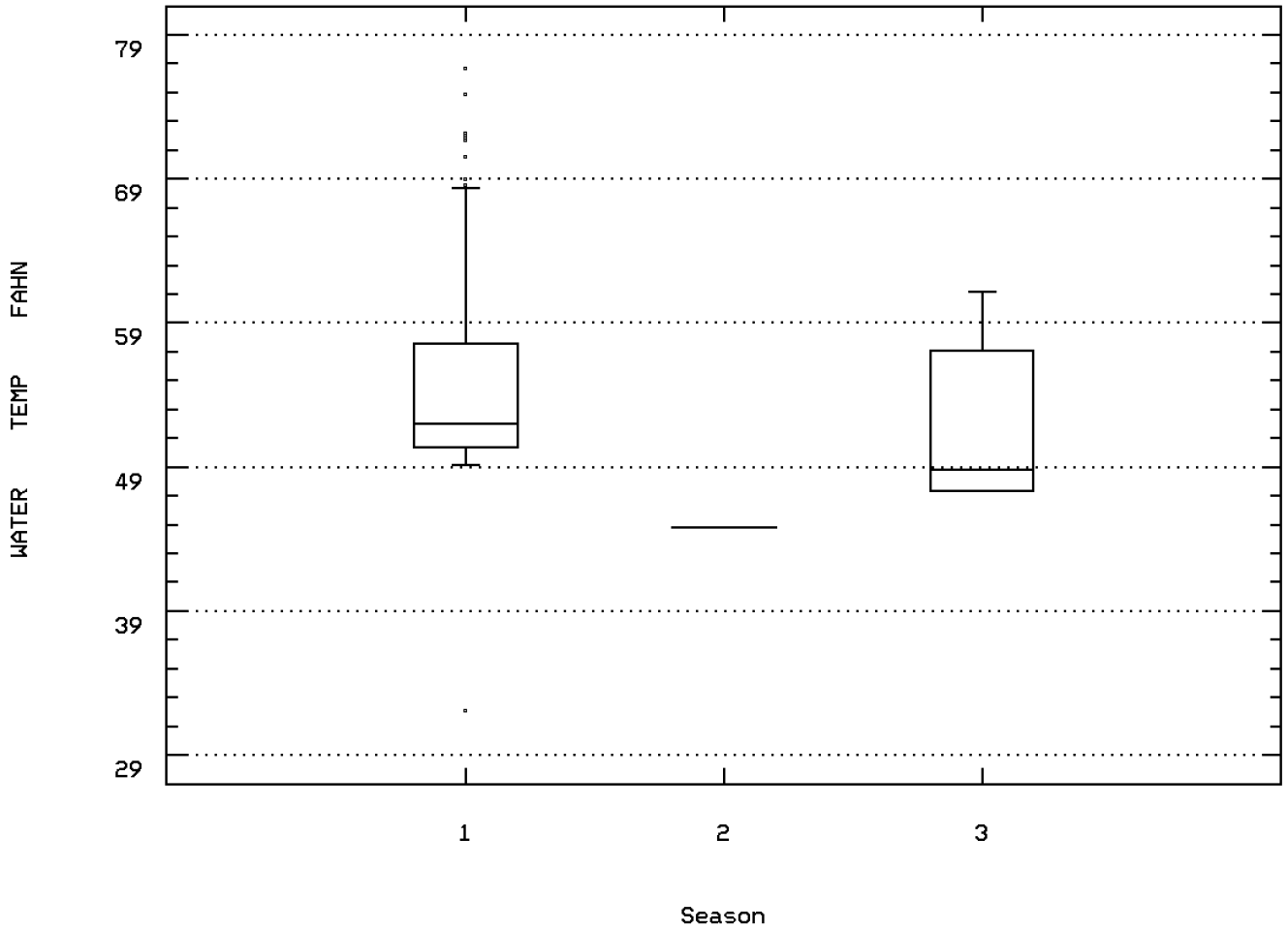
Seasonal Analysis for Season #3: 2/21 to 5/31 - Station WHIS0029

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/21/71-06/02/94	356	9.1	10.313	17.7	7.	8.71	2.951	7.5	8.4	12.275	15.8
00011p	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	10/05/70-06/02/94	108	48.8	51.491	61.2	47.3	22.572	4.751	47.3	47.3	57.225	57.9
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/05/70-06/02/94	50	103.	95.44	131.	71.	220.578	14.852	71.	81.	106.	107.8
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/01/78-06/02/94	102	82.	86.304	129.	71.	183.263	13.537	72.	74.	96.	107.7
00299p	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	10/05/70-06/02/94	358	10.	9.522	11.8	4.8	1.675	1.294	7.8	9.4	10.125	10.5
00406p	PH, FIELD, STANDARD UNITS SU	10/05/70-06/02/94	104	7.4	7.55	8.5	7.	0.21	0.458	7.1	7.2	7.875	8.4
00406p	CONVERTED PH, FIELD, STANDARD UNITS	10/05/70-06/02/94	104	7.4	7.383	8.5	7.	0.238	0.488	7.1	7.2	7.875	8.4
00406p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/05/70-06/02/94	104	0.04	0.041	0.1	0.003	0.001	0.027	0.004	0.013	0.063	0.079
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	12/17/81-08/30/90	43	35.	33.698	48.	25.	22.311	4.723	28.	30.	37.	39.6
00431p	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/10/82-06/02/94	13	40.	37.846	45.	30.	51.974	7.209	30.	30.5	45.	45.
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	09/20/77-06/02/94	6 ##	0.008	0.007	0.01	0.	0.	0.004	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/19/81-09/07/93	8 ##	0.005	0.009	0.04	0.	0.	0.013	**	**	**	**
00635	NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	06/29/77-06/02/94	8 ##	0.05	0.056	0.1	0.	0.002	0.042	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/29/77-06/02/94	8 ##	0.005	0.007	0.02	0.	0.	0.007	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/19/81-06/02/94	6	34.5	34.333	40.	28.	29.067	5.391	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/19/81-06/02/94	6	6.	5.667	6.	5.	0.267	0.516	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/19/81-06/02/94	6	5.	4.833	6.	3.	1.767	1.329	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/19/81-06/02/94	6	3.	2.833	3.	2.	0.167	0.408	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/19/81-06/02/94	6	0.4	0.4	0.5	0.3	0.004	0.063	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	08/19/81-06/02/94	6	1.5	1.5	2.	1.	0.3	0.548	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	08/19/81-06/02/94	6	4.	3.833	5.	2.	1.367	1.169	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	09/30/86-06/02/94	4 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	08/19/81-06/02/94	6 ##	50.	33.333	50.	0.	666.667	25.82	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	09/30/86-06/02/94	4 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	09/30/86-06/02/94	4 ##	2.5	2.	2.5	0.5	1.	1.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	09/30/86-06/02/94	4 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	09/30/86-06/02/94	4 ##	50.	56.25	100.	25.	989.583	31.458	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	09/30/86-06/02/94	4 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	09/30/86-06/02/94	4 ##	3.75	4.75	9.	2.5	9.417	3.069	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	09/30/86-06/02/94	4	5.5	5.75	7.	5.	0.917	0.957	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	09/30/86-06/02/94	4 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
71889	PHOSPHATE, ORTHO, SOLUBLE, AS PO4 (MG/L)	06/29/77-06/02/94	8 ##	0.003	0.003	0.01	0.	0.	0.004	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	09/30/86-06/02/94	4 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
82078p	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	10/05/70-06/02/94	32	0.5	0.675	5.7	0.2	1.179	1.086	0.2	0.3	0.5	0.6
82079p	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	12/17/81-08/30/90	72	0.75	1.035	2.2	0.4	0.376	0.613	0.4	0.5	1.7	1.9

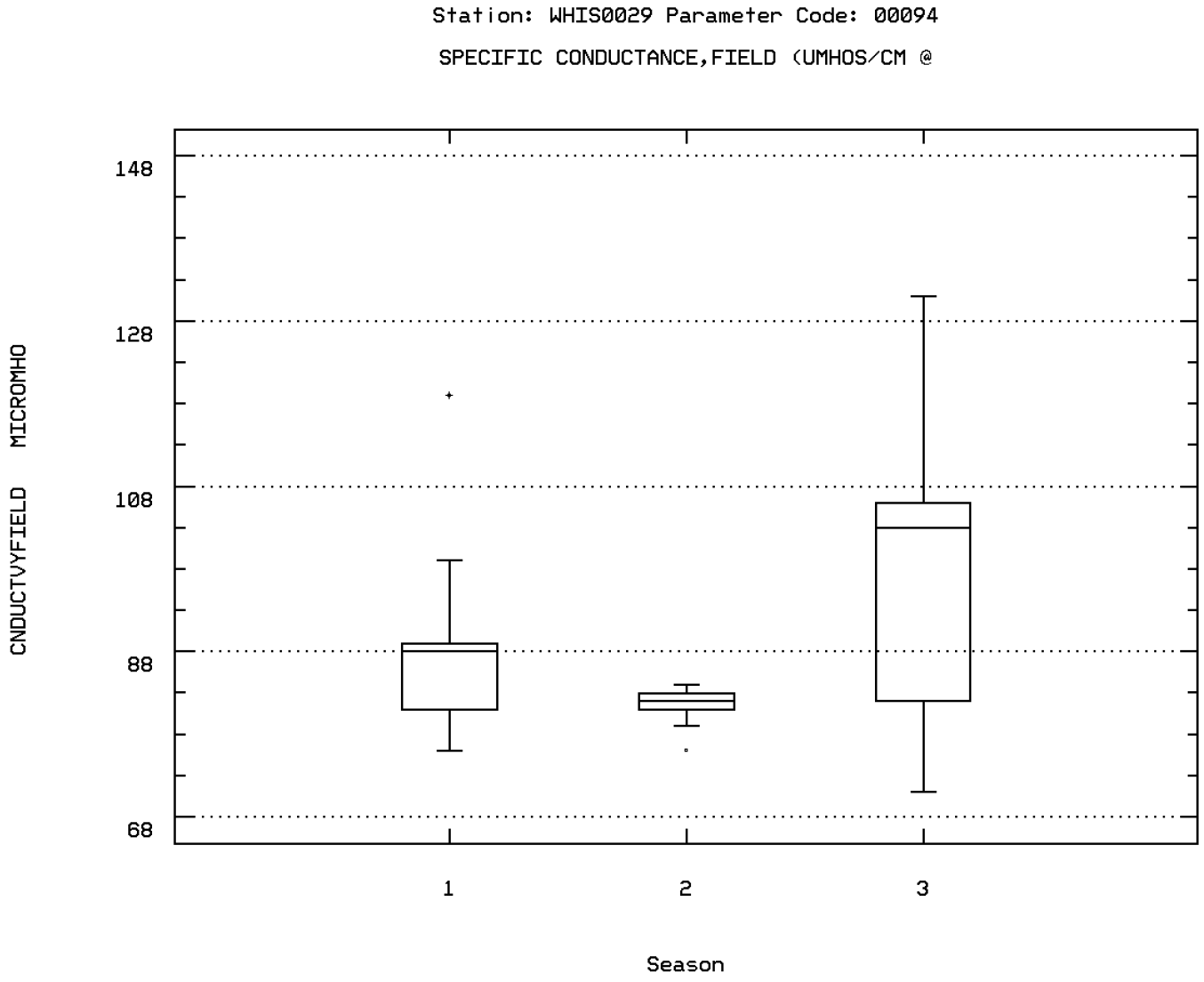
** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station: WHIS0029 Parameter Code: 00011

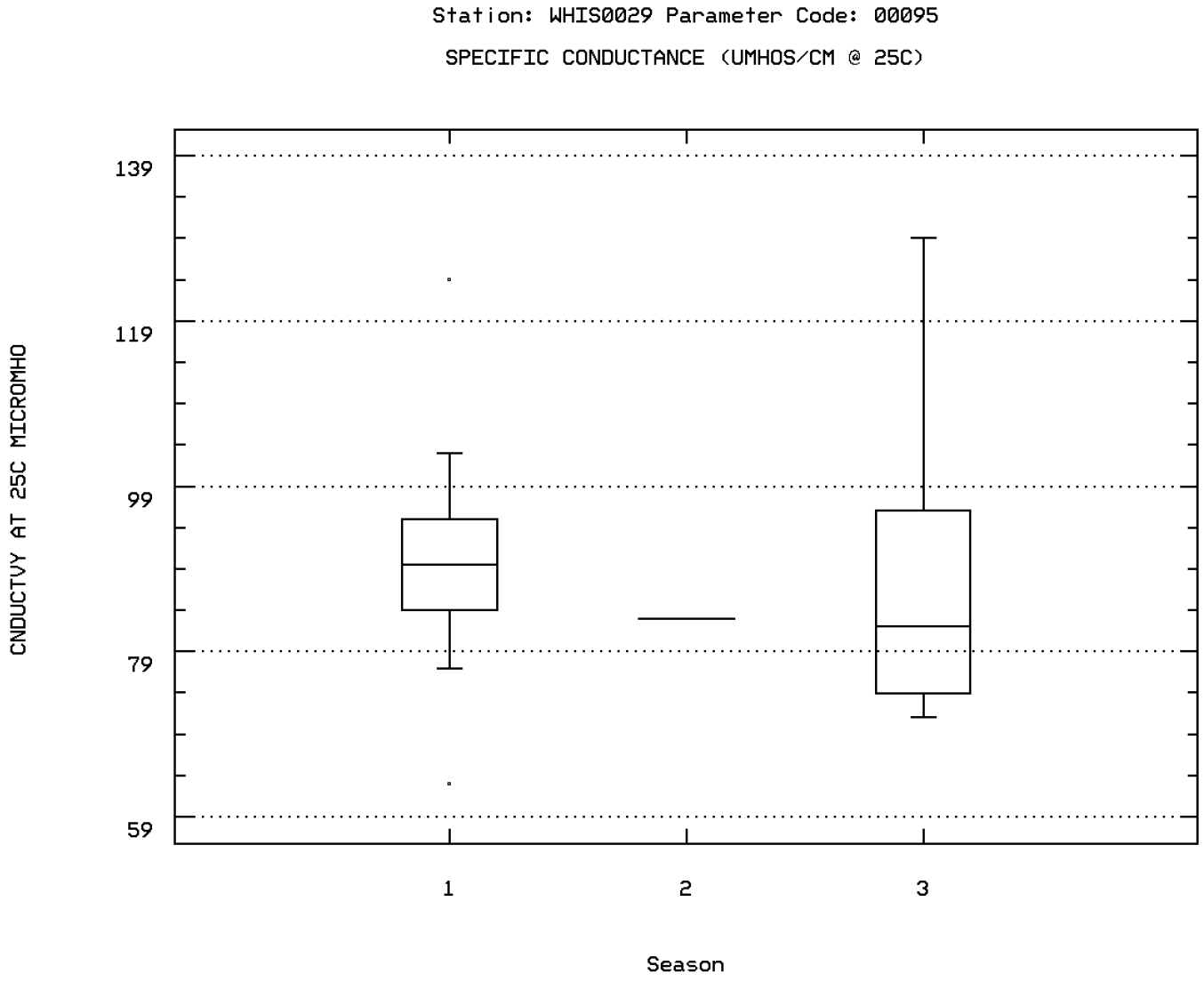
TEMPERATURE, WATER (DEGREES FAHRENHEIT)



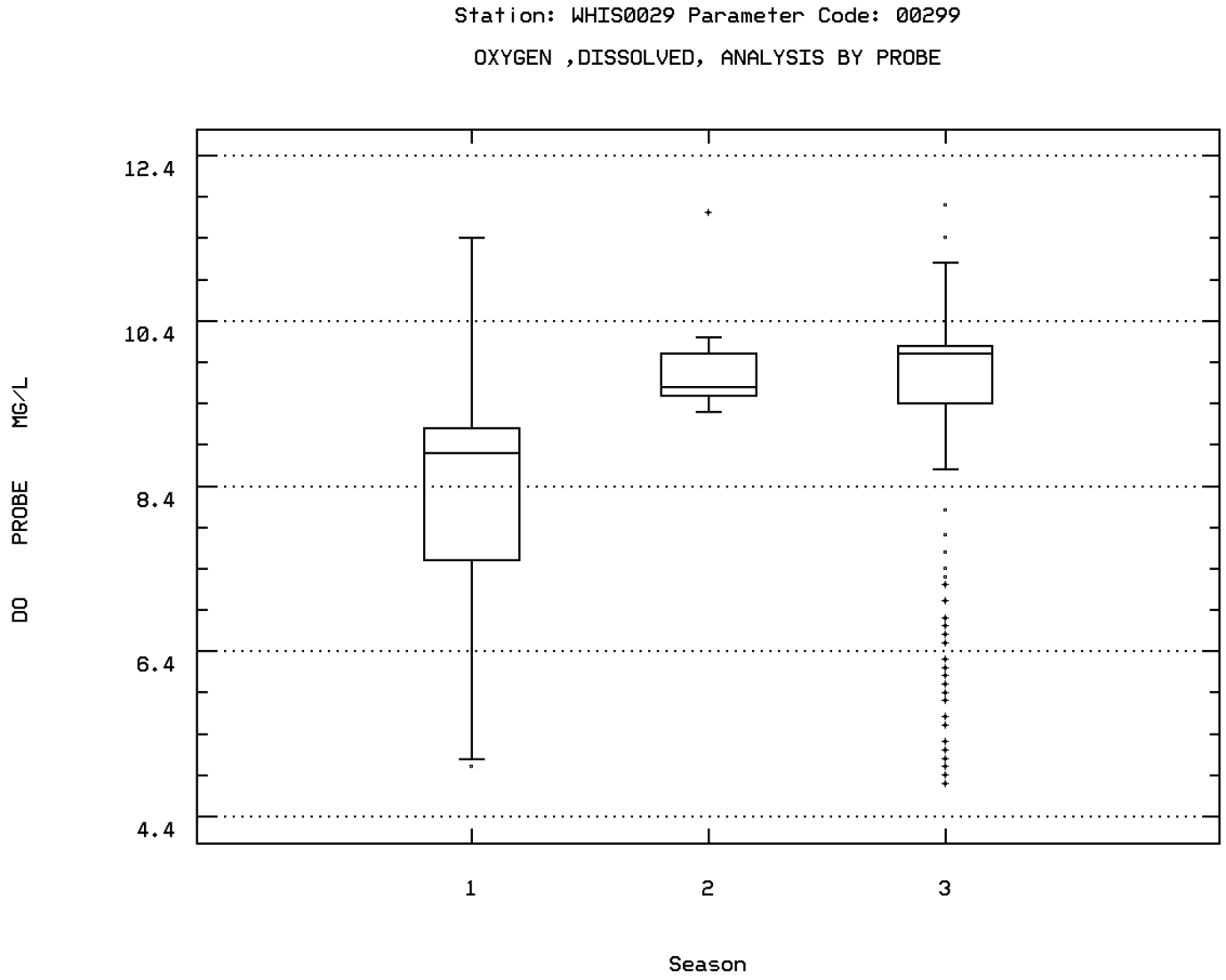
WHISKEYTOWN RESERVOIR



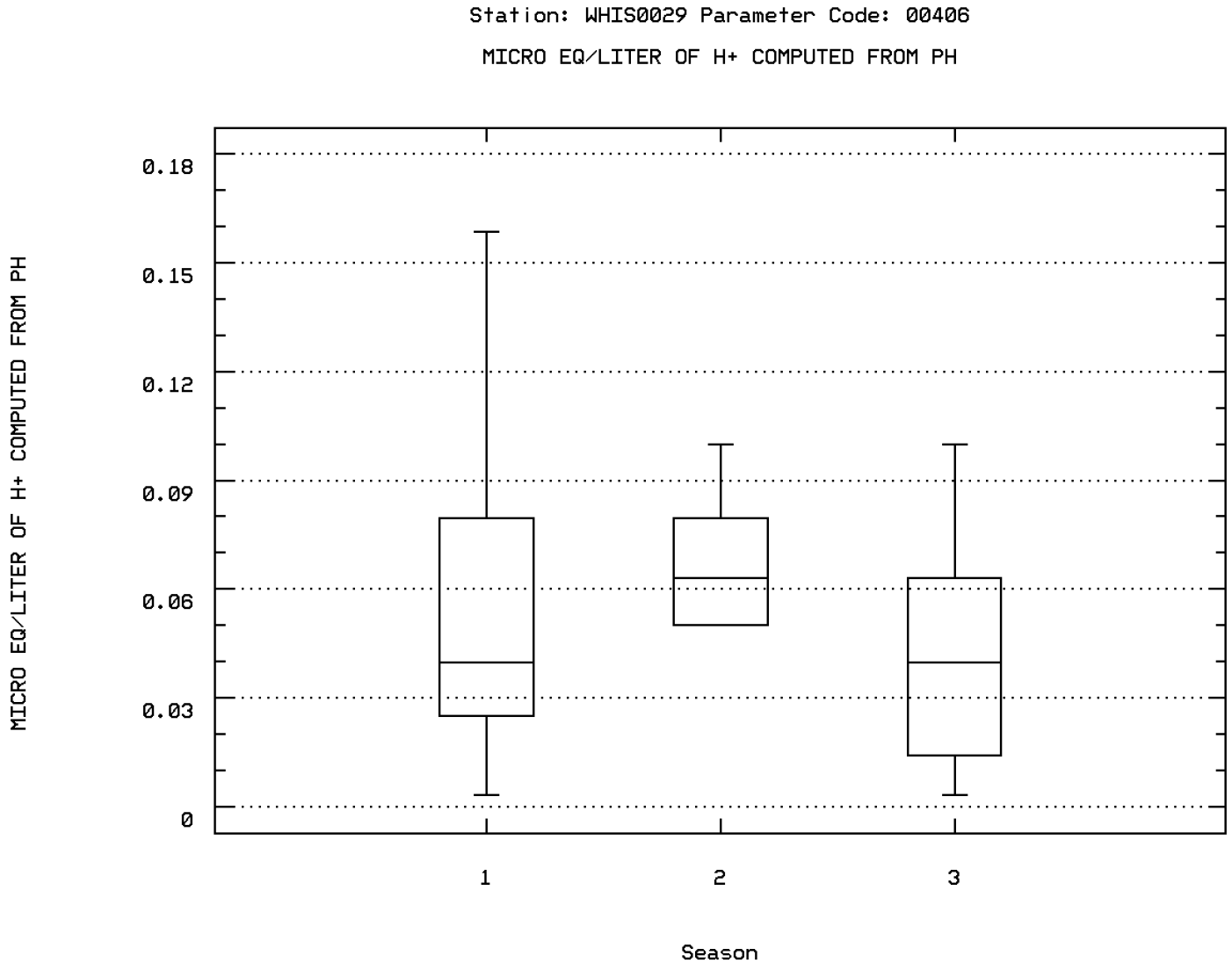
WHISKEYTOWN RESERVOIR



WHISKEYTOWN RESERVOIR



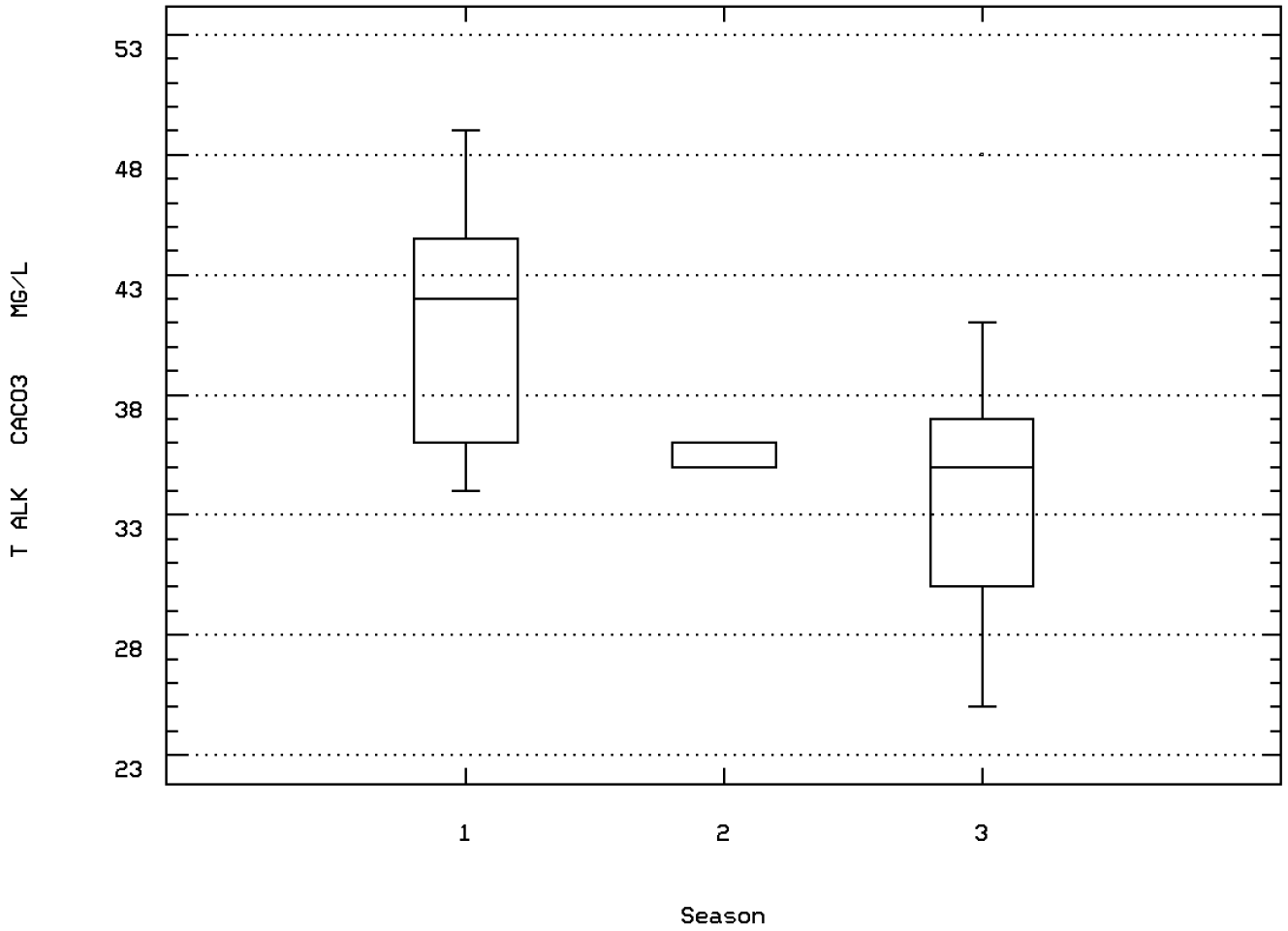
WHISKEYTOWN RESERVOIR



WHISKEYTOWN RESERVOIR

Station: WHIS0029 Parameter Code: 00410

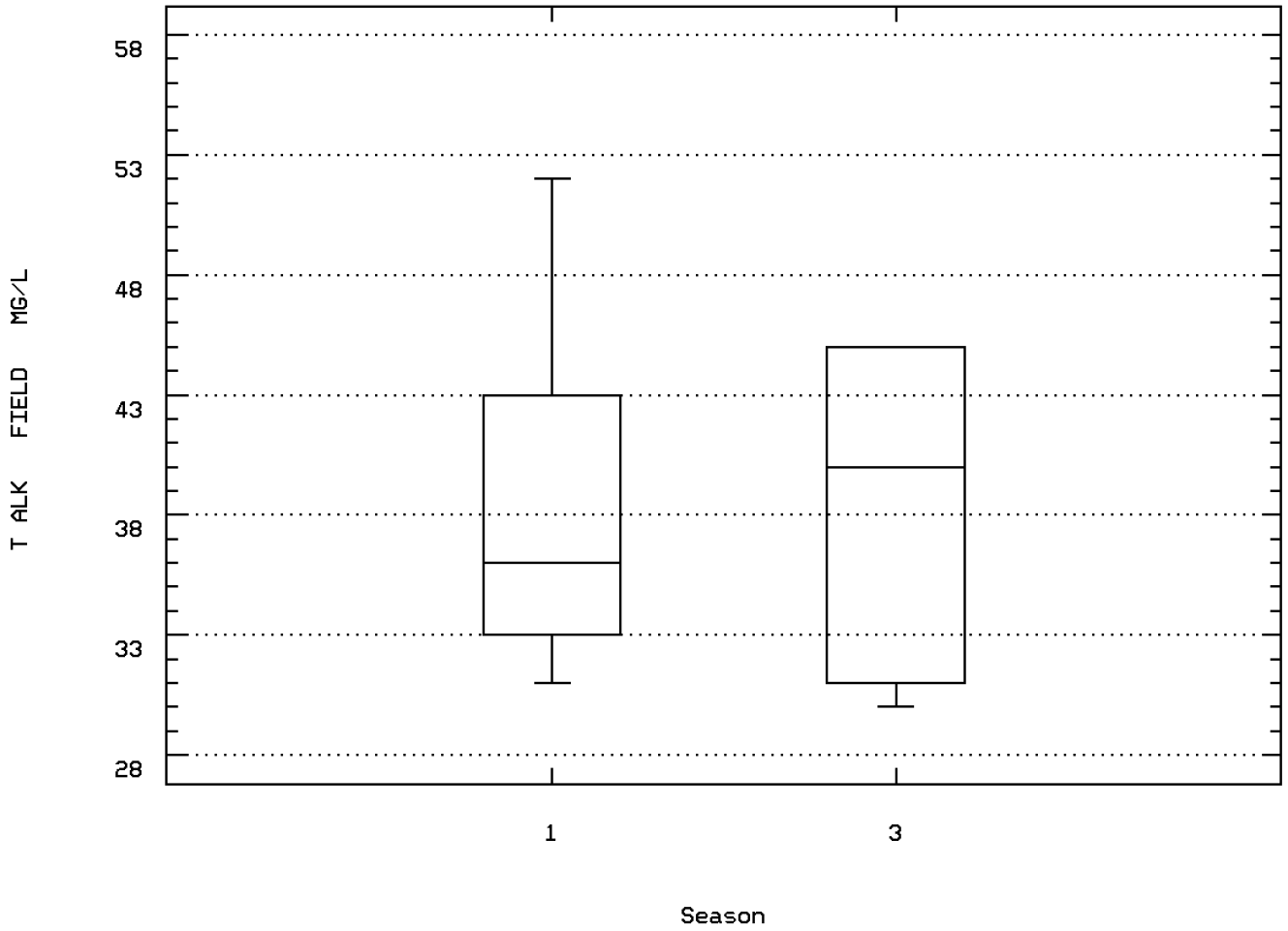
ALKALINITY, TOTAL (MG/L AS CACO3)



WHISKEYTOWN RESERVOIR

Station: WHIS0029 Parameter Code: 00431

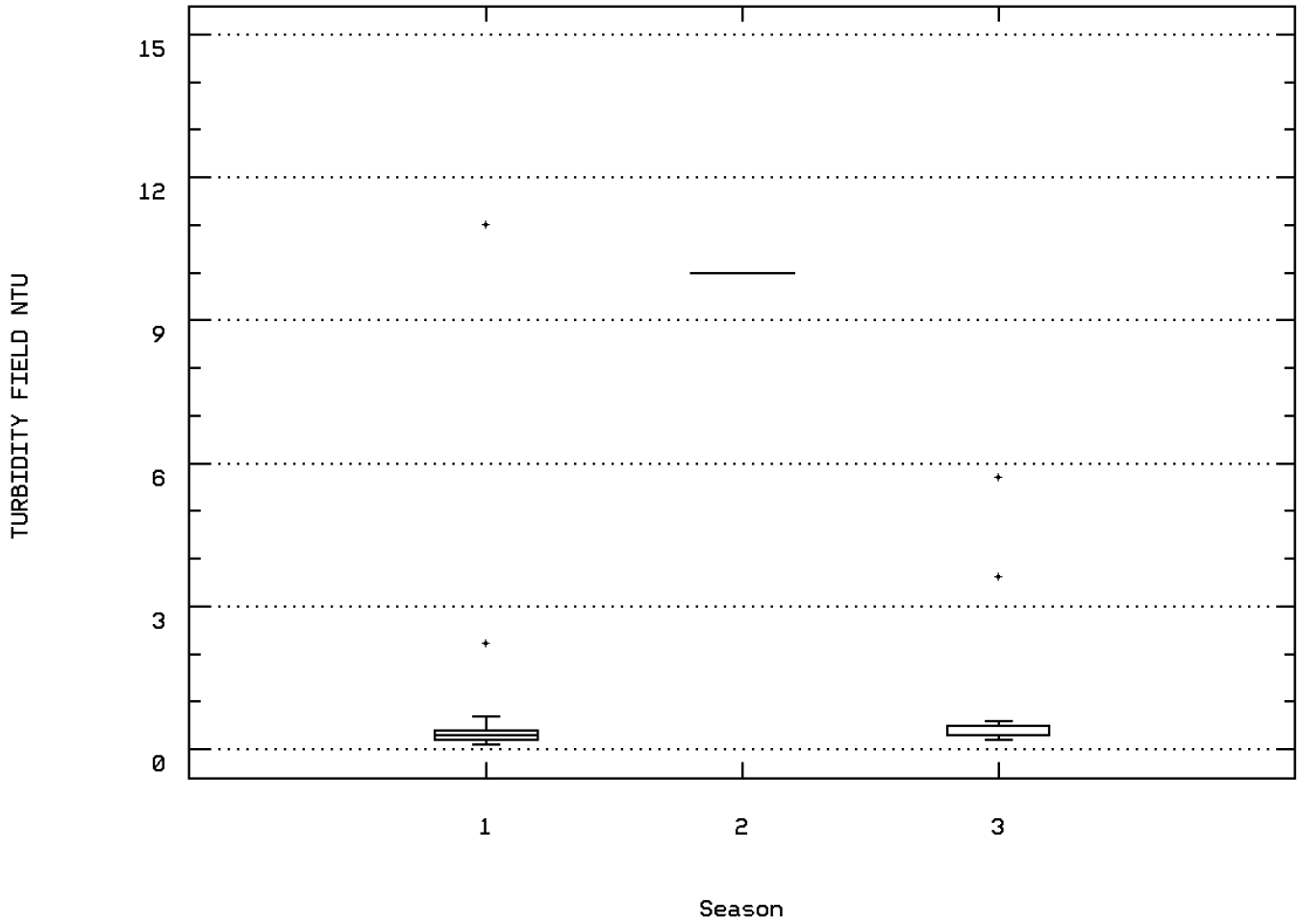
ALKALINITY TOATL FIELD, (MG/L AS CACO3)



WHISKEYTOWN RESERVOIR

Station: WHIS0029 Parameter Code: 82078

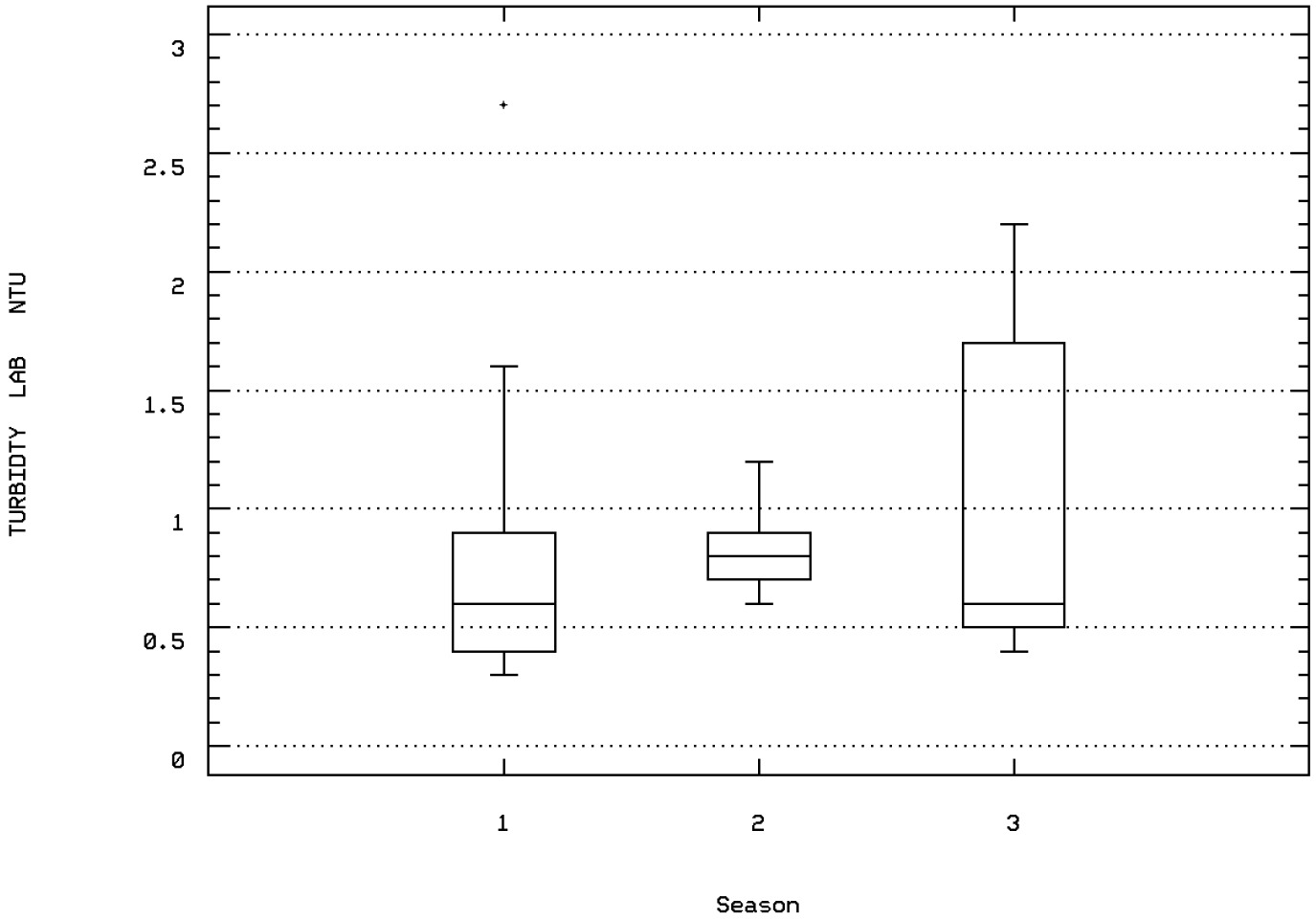
TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY



WHISKEYTOWN RESERVOIR

Station: WHIS0029 Parameter Code: 82079

TURBIDITY,LAB NEPHELOMETRIC TURBIDITY U



WHISKEYTOWN RESERVOIR

Station Inventory for Station: WHIS0030

NPS Station ID: WHIS0030
LAT/LON: 40.600615/-122.536003
Agency: 11NPSWRD
Date Created: 05/23/98
Location: WHISKEYTOWN LAKE INTAKE (RESERVOIR)
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /RESERV/TYPA/AMBNT
STORET Station ID(s): WHIS_CDHS_6
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112
Depth of Water: 0
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112
RF1 Mile Point: 0.000
Distance from RF1: 0.80
On/Off RF1:
RF3 Index: 18010211001600.95
RF3 Mile Point: 5.98
Distance from RF3: 0.04
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE IGO CA-SHASTA COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS DESCRIBED BY THE CALIFORNIA DEPARTMENT OF HEALTH SERVICES (CDHS) AS "WHISKEYTOWN LAKE INTAKE-RAW" AND IS LOCATED AT THE WHISKEYTOWN RESERVOIR INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE CDHS DATA WERE OBTAINED FROM THE NATIONAL PARK SERVICE (NPS) AND THREE COMMUNITY SERVICE DISTRICTS. FOR MORE INFORMATION ON THE DATA CONTACT THE CDHS; DRINKING WATER PROGRAM; PO BOX 942732 MS 92; SACRAMENTO CA 94234 (TEL 916-323-4670). FOR MORE INFORMATION ON THE WHISKEYTOWN UNIT OF THE PARK CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; PO BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NPS WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0030

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	06/27/91-06/27/91	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00086	ODOR (THRESHOLD NUMBER AT 60 DEG C)	06/27/91-06/27/91	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/22/86-02/16/94	5	95.	99.8	141.	70.	660.7	25.704	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	09/22/86-02/16/94	6	7.35	7.367	7.6	7.2	0.019	0.137	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	09/22/86-02/16/94	6	7.347	7.35	7.6	7.2	0.019	0.138	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/22/86-02/16/94	6	0.045	0.045	0.063	0.025	0.	0.013	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/22/86-02/16/94	6	39.	41.	54.	35.	46.	6.782	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	09/22/86-02/16/94	6	48.	48.333	54.	43.	17.067	4.131	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	09/22/86-02/16/94	5	0.	0.	0.	0.	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/18/96-07/18/96	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/22/86-02/16/94	6	40.	41.5	54.	35.	43.1	6.565	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	09/22/86-02/16/94	6	5.6	7.017	13.4	4.8	10.838	3.292	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	09/22/86-02/16/94	6	5.65	5.733	7.2	4.7	0.823	0.907	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	09/22/86-02/16/94	6	2.545	2.998	5.8	2.	2.016	1.42	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/22/86-02/16/94	6	2.	2.167	4.	1.	0.967	0.983	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	09/22/86-02/16/94	6	2.5	2.917	6.	0.5	4.842	2.2	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	09/22/86-02/16/94	6 ##	0.038	0.081	0.25	0.025	0.008	0.089	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	09/22/86-02/16/94	6 ##	1.75	1.917	5.	0.	3.342	1.828	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	09/22/86-02/16/94	6 ##	33.5	37.5	100.	0.	1383.1	37.19	**	**	**	**

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

Parameter Inventory for Station: WHIS0030

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01012	BERYLLIUM, TOTAL (UG/L AS BE)	07/18/96-07/18/96	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	09/22/86-02/16/94	6 ##	0.75	1.167	2.5	0.	1.167	1.08	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	09/22/86-02/16/94	6 ##	3.25	4.667	10.	0.	19.767	4.446	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	09/22/86-02/16/94	6 ##	7.	8.833	25.	0.	86.267	9.288	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	09/22/86-02/16/94	6 ##	47.5	60.333	179.	0.	3733.867	61.105	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	09/22/86-02/16/94	6 ##	1.75	3.567	12.5	0.	22.467	4.74	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	09/22/86-02/16/94	6 ##	10.	10.	18.	0.	57.6	7.589	**	**	**	**
01059	THALLIUM, TOTAL (UG/L AS TL)	07/18/96-07/18/96	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	07/18/96-07/18/96	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	09/22/86-02/16/94	6 ##	4.25	4.167	10.	0.	12.067	3.474	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	09/22/86-02/16/94	6 ##	10.	9.583	25.	0.	79.442	8.913	**	**	**	**
01097	ANTIMONY, TOTAL (UG/L AS SB)	07/18/96-07/18/96	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	10/10/89-02/16/94	4 ##	31.	28.	50.	0.	445.333	21.103	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	09/22/86-02/16/94	6 ##	1.75	1.483	2.5	0.	1.342	1.158	**	**	**	**
01501	ALPHA, TOTAL	08/15/90-06/27/91	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01502	ALPHA, TOTAL, COUNTING ERROR	08/15/90-06/27/91	2 ##	0.5	0.5	1.	0.	0.5	0.707	**	**	**	**
32101	BROMODICHLOROMETHANE,WHOLE WATER,UG/L	02/16/94-02/16/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
32102	CARBON TETRACHLORIDE,WHOLE WATER,UG/L	02/16/94-02/16/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
32104	BROMOFORM,WHOLE WATER,UG/L	02/16/94-02/16/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
32105	DIBROMOCHLOROMETHANE,WHOLE WATER,UG/L	02/16/94-02/16/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
32106	CHLOROFORM,WHOLE WATER,UG/L	02/16/94-02/16/94	1	2.	2.	2.	2.	0.	0.	**	**	**	**
34010	TOLUENE IN WTR SMPLE GC-MS, HEXADECONE EXTR.(UG/L)	02/16/94-02/16/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34030	BENZENE IN WTR SMPLE GC-MS, HEXADECONE EXTR.(UG/L)	02/16/94-02/16/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34273	BIS (2-CHLOROETHYL) ETHER TOTWUG/L	02/16/94-02/16/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34301	CHLOROBENZENE TOTWUG/L	02/16/94-02/16/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34311	CHLOROETHANE TOTWUG/L	02/16/94-02/16/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34371	ETHYLBENZENE TOTWUG/L	02/16/94-02/16/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34391	HEXACHLOROBUTADIENE TOTWUG/L	02/16/94-02/16/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34413	METHYL BROMIDE TOTWUG/L	02/16/94-02/16/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34418	METHYL CHLORIDE TOTWUG/L	02/16/94-02/16/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34423	METHYLENE CHLORIDE TOTWUG/L	02/16/94-02/16/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34475	TETRACHLOROETHYLENE TOTWUG/L	02/16/94-02/16/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34488	TRICHLOROFLUOROMETHANE TOTWUG/L	02/16/94-02/16/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34496	1,1-DICHLOROETHANE TOTWUG/L	02/16/94-02/16/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34501	1,1-DICHLOROETHYLENE TOTWUG/L	02/16/94-02/16/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34506	1,1,1-TRICHLOROETHANE TOTWUG/L	02/16/94-02/16/94	1	1.059	1.059	1.059	1.059	0.	0.	**	**	**	**
34511	1,1,2-TRICHLOROETHANE TOTWUG/L	02/16/94-02/16/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34516	1,1,2,2-TETRACHLOROETHANE TOTWUG/L	02/16/94-02/16/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34531	1,2-DICHLOROETHANE TOTWUG/L	02/16/94-02/16/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34536	1,2-DICHLOROBENZENE TOTWUG/L	02/16/94-02/16/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34541	1,2-DICHLOROPROPANE TOTWUG/L	02/16/94-02/16/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34546	TRANS-1,2-DICHLOROETHENE, TOTAL, IN WATER UG/L	02/16/94-02/16/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34551	1,2,4-TRICHLOROBENZENE TOTWUG/L	02/16/94-02/16/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34561	1,3-DICHLOROPROPENE TOTWUG/L	02/16/94-02/16/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34566	1,3-DICHLOROBENZENE TOTWUG/L	02/16/94-02/16/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34571	1,4-DICHLOROBENZENE TOTWUG/L	02/16/94-02/16/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34576	2-CHLOROETHYL VINYL ETHER TOTWUG/L	02/16/94-02/16/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34668	DICHLORODIFUOROMETHANE TOTWUG/L	02/16/94-02/16/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34696	NAPHTHALENE TOTWUG/L	02/16/94-02/16/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34722	BOLERO (THIOBENCARB), WATER, WHOLE UG/L	02/16/94-02/16/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	09/22/86-02/16/94	6 ##	0.01	0.018	0.04	0.01	0.	0.013	**	**	**	**
38710	BENTAZON WATER, TOTUG/L	02/16/94-02/16/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
38761	DBCP WATER, DISUG/L	07/24/89-02/16/94	3 ##	0.005	0.085	0.25	0.	0.02	0.143	**	**	**	**
39033	ATRAZINE IN WHOLE WATER SAMPLE UG/L	06/22/89-02/16/94	3 ##	0.25	0.25	0.5	0.	0.063	0.25	**	**	**	**
39045	2,4,5-TP INCLUDES ACIDS & SALTS WATER SAMPL UG/L	06/22/89-02/16/94	2 ##	0.025	0.025	0.05	0.	0.001	0.035	**	**	**	**
39055	SIMAZINE IN WHOLE WATER (UG/L)	06/22/89-02/16/94	3 ##	0.25	0.25	0.5	0.	0.063	0.25	**	**	**	**
39100	BIS(2-ETHYLHEXYL) PHTHALATE,WHOLE WATER,UG/L	02/16/94-02/16/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39175	VINYL CHLORIDE-WHOLE WATER SAMPLE-UG/L	02/16/94-02/16/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39180	TRICHLOROETHYLENE-WHOLE WATER SAMPLE-UG/L	02/16/94-02/16/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	06/22/89-02/16/94	2 ##	0.025	0.025	0.05	0.	0.001	0.035	**	**	**	**
39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	02/16/94-02/16/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	06/22/89-02/16/94	2 ##	0.003	0.003	0.005	0.	0.	0.004	**	**	**	**
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	06/22/89-02/16/94	2 ##	0.125	0.125	0.25	0.	0.031	0.177	**	**	**	**

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

Parameter Inventory for Station: WHIS0030

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	02/16/94-02/16/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	02/16/94-02/16/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	06/22/89-02/16/94	2 ##	0.25	0.25	0.5	0.	0.125	0.354	**	**	**	**
39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	06/22/89-02/16/94	2 ##	0.25	0.25	0.5	0.	0.125	0.354	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/22/86-02/16/94	6	61.5	62.333	88.	45.	236.667	15.384	**	**	**	**
71814	LANGELIER INDEX, CORROSIVITY, WATER, INDEX NUMBER	09/22/86-09/22/86	1	-1.73	-1.73	-1.73	-1.73	0.	0.	**	**	**	**
71830	HYDROXIDE ION (MG/L AS OH)	06/27/91-06/27/91	1	0.	0.	0.	0.	0.	0.	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	09/22/86-07/18/96	8 ##	0.15	0.163	0.4	0.	0.025	0.159	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	09/22/86-02/16/94	6 ##	0.1	0.092	0.25	0.	0.008	0.092	**	**	**	**
77093	CIS-1,2-DICHLOROETHYLENE WHOLE WATER,UG/L	02/16/94-02/16/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
77128	STYRENE WHOLE WATER,UG/L	02/16/94-02/16/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
77135	O-XYLENE WHOLE WATER,UG/L	02/16/94-02/16/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
77168	1,1-DICHLOROPROPENE WHOLE WATER,UG/L	02/16/94-02/16/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
77170	2,2-DICHLOROPROPANE WHOLE WATER,UG/L	02/16/94-02/16/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
77173	1,3-DICHLOROPROPANE WHOLE WATER,UG/L	02/16/94-02/16/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
77222	1,2,4-TRIMETHYLBENZENE WHOLE WATER,UG/L	02/16/94-02/16/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
77223	ISOPROPYLBENZENE WHOLE WATER,UG/L	02/16/94-02/16/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
77224	N-PROPYLBENZENE WHOLE WATER,UG/L	02/16/94-02/16/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
77226	1,3,5-TRIMETHYLBENZENE WHOLE WATER,UG/L	02/16/94-02/16/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
77275	1-METHYL-2-CHLOROBENZENE (O-CHLOR*WHOLE WATER,UG/L	02/16/94-02/16/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
77277	1-METHYL-4-CHLOROBENZENE (P-CHLOR*WHOLE WATER,UG/L	02/16/94-02/16/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
77297	CHLOROBROMOMETHANE WHOLE WATER,UG/L	02/16/94-02/16/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
77342	N-BUTYLBENZENE WHOLE WATER,UG/L	02/16/94-02/16/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
77350	SEC-BUTYLBENZENE WHOLE WATER,UG/L	02/16/94-02/16/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
77353	TERT-BUTYLBENZENE WHOLE WATER,UG/L	02/16/94-02/16/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
77356	1-METHYL-4-ISOPROPYLBENZENE WHOLE WATER,UG/L	02/16/94-02/16/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
77443	1,2,3-TRICHLOROPROPANE WHOLE WATER,UG/L	02/16/94-02/16/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
77562	1,1,1,2-TETRACHLOROETHANE WHOLE WATER,UG/L	02/16/94-02/16/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
77596	METHYLENE BROMIDE WHOLE WATER,UG/L	02/16/94-02/16/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
77613	1,2,3-TRICHLOROBENZENE WHOLE WATER,UG/L	02/16/94-02/16/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
77651	1,2-DIBROMOETHANE WHOLE WATER,UG/L	07/24/89-02/16/94	3 ##	0.01	0.087	0.25	0.	0.02	0.142	**	**	**	**
79743	GLYPHOSATE(GLYCINE,N-(PHOSPHONOMETHYL)-) TOTWUG/L	02/16/94-02/16/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
81405	CARBOFURAN (EURADAN) WHOLE WATER SAMPLE UG/L	02/16/94-02/16/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
81551	XYLENE WHL WATER SMPL UG/L	02/16/94-02/16/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
81555	BROMOBENZENE WHL WATER SMPL UG/L	02/16/94-02/16/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
81595	METHYL ETHYL KETONE WHL WATER SMPL UG/L	02/16/94-02/16/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
81596	METHYL-ISOBUTYL KETONE WHL WATER SMPL UG/L	02/16/94-02/16/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
81611	TRICHLOROTRIFLUOROETHANE WHL WATER SMPL UG/L	02/16/94-02/16/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
81855	ASBESTOS (FIBROUS-CHRYSOTILE) WHL WAT FIBERS/LITER	07/18/96-07/18/96	1	0.	0.	0.	0.	0.	0.	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	06/27/91-06/27/91	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
82080	TRIHALOMETHANE TOTAL IN WATER, BY SUMMATION UG/L	02/16/94-02/16/94	1	1.76	1.76	1.76	1.76	0.	0.	**	**	**	**
82199	ORDRAM (HYDRAM) IN WATER UG/L	02/16/94-02/16/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
85795	XYLENE, META & PARA, WATER, WHOLE UG/L	02/16/94-02/16/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0030

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00403	PH, LAB	Fresh Chronic	9.	6	0	0.00	4	0	0.00	2	0	0.00						
		Other-Lo Lim.	6.5	6	0	0.00	4	0	0.00	2	0	0.00						
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	1	0	0.00	1	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	6	0	0.00	4	0	0.00	2	0	0.00						
		Drinking Water	250.	6	0	0.00	4	0	0.00	2	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	6	0	0.00	4	0	0.00	2	0	0.00						
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	6	0	0.00	4	0	0.00	2	0	0.00						
01002	ARSENIC, TOTAL	Fresh Acute	360.	6	0	0.00	4	0	0.00	2	0	0.00						
		Drinking Water	50.	6	0	0.00	4	0	0.00	2	0	0.00						
01007	BARIUM, TOTAL	Drinking Water	2000.	6	0	0.00	4	0	0.00	2	0	0.00						

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

EPA Water Quality Criteria Analysis for Station: WHIS0030

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	1	0	0.00	1	0	0.00									
		Drinking Water	4.	1	0	0.00	1	0	0.00									
01027	CADMIUM, TOTAL	Fresh Acute	3.9	6	0	0.00	4	0	0.00	2	0	0.00						
		Drinking Water	5.	6	0	0.00	4	0	0.00	2	0	0.00						
01034	CHROMIUM, TOTAL	Drinking Water	100.	6	0	0.00	4	0	0.00	2	0	0.00						
01042	COPPER, TOTAL	Fresh Acute	18.	5 &	0	0.00	3	0	0.00	2	0	0.00						
		Drinking Water	1300.	6	0	0.00	4	0	0.00	2	0	0.00						
01051	LEAD, TOTAL	Fresh Acute	82.	6	0	0.00	4	0	0.00	2	0	0.00						
		Drinking Water	15.	6	0	0.00	4	0	0.00	2	0	0.00						
01059	THALLIUM, TOTAL	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01077	SILVER, TOTAL	Fresh Acute	4.1	3 &	0	0.00	2	0	0.00	1	0	0.00						
		Drinking Water	100.	6	0	0.00	4	0	0.00	2	0	0.00						
01092	ZINC, TOTAL	Fresh Acute	120.	6	0	0.00	4	0	0.00	2	0	0.00						
		Drinking Water	5000.	6	0	0.00	4	0	0.00	2	0	0.00						
01097	ANTIMONY, TOTAL	Fresh Acute	88.	1	0	0.00	1	0	0.00									
		Drinking Water	6.	1	0	0.00	1	0	0.00									
01147	SELENIUM, TOTAL	Fresh Acute	20.	6	0	0.00	4	0	0.00	2	0	0.00						
		Drinking Water	50.	6	0	0.00	4	0	0.00	2	0	0.00						
32101	BROMODICHLOROMETHANE, WHOLE WATER	Drinking Water	100.	1	0	0.00				1	0	0.00						
32102	CARBON TETRACHLORIDE, WHOLE WATER	Fresh Acute	35200.	1	0	0.00				1	0	0.00						
		Drinking Water	5.	1	0	0.00				1	0	0.00						
32104	BROMOFORM, WHOLE WATER	Drinking Water	100.	1	0	0.00				1	0	0.00						
32105	DIBROMOCHLOROMETHANE, WHOLE WATER	Drinking Water	100.	1	0	0.00				1	0	0.00						
32106	CHLOROFORM, WHOLE WATER	Fresh Acute	28900.	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						
34010	TOLUENE IN WTR SMPLE GC-MS, HEXADECONE E	Fresh Acute	17500.	1	0	0.00				1	0	0.00						
		Drinking Water	1000.	1	0	0.00				1	0	0.00						
34301	CHLOROBENZENE, TOTAL	Drinking Water	100.	1	0	0.00				1	0	0.00						
34371	ETHYLBENZENE, TOTAL	Fresh Acute	32000.	1	0	0.00				1	0	0.00						
		Drinking Water	700.	1	0	0.00				1	0	0.00						
34391	HEXACHLOROBUTADIENE, TOTAL	Fresh Acute	90.	1	0	0.00				1	0	0.00						
34423	METHYLENE CHLORIDE, TOTAL	Drinking Water	5.	1	0	0.00				1	0	0.00						
34475	TETRACHLOROETHYLENE, TOTAL	Fresh Acute	5280.	1	0	0.00				1	0	0.00						
		Drinking Water	5.	1	0	0.00				1	0	0.00						
34501	1,1-DICHLOROETHYLENE, TOTAL	Drinking Water	7.	1	0	0.00				1	0	0.00						
34506	1,1,1-TRICHLOROETHANE, TOTAL	Drinking Water	200.	1	0	0.00				1	0	0.00						
34511	1,1,2-TRICHLOROETHANE, TOTAL	Drinking Water	5.	1	0	0.00				1	0	0.00						
34531	1,2-DICHLOROETHANE, TOTAL	Fresh Acute	118000.	1	0	0.00				1	0	0.00						
		Drinking Water	5.	1	0	0.00				1	0	0.00						
34536	1,2-DICHLOROBENZENE, TOTAL	Drinking Water	600.	1	0	0.00				1	0	0.00						
34541	1,2-DICHLOROPROPANE, TOTAL	Drinking Water	5.	1	0	0.00				1	0	0.00						
34546	TRANS-1,2-DICHLOROETHENE, TOTAL, IN WATE	Drinking Water	100.	1	0	0.00				1	0	0.00						
34551	1,2,4-TRICHLOROBENZENE, TOTAL	Drinking Water	70.	1	0	0.00				1	0	0.00						
34566	1,3-DICHLOROBENZENE, TOTAL	Drinking Water	600.	1	0	0.00				1	0	0.00						
34571	1,4-DICHLOROBENZENE, TOTAL	Drinking Water	75.	1	0	0.00				1	0	0.00						
34696	NAPHTHALENE, TOTAL	Fresh Acute	2300.	1	0	0.00				1	0	0.00						
38761	DBCP, WATER, DISSOLVED	Drinking Water	0.2	2 &	0	0.00	1	0	0.00	1	0	0.00						
39033	ATRAZINE IN WHOLE WATER SAMPLE	Drinking Water	3.	3	0	0.00	2	0	0.00	1	0	0.00						
39045	2,4,5-TP INCLUDES ACIDS & SALTS WATER SA	Drinking Water	50.	2	0	0.00	1	0	0.00	1	0	0.00						
39055	SIMAZINE IN WHOLE WATER	Drinking Water	4.	3	0	0.00	2	0	0.00	1	0	0.00						
39100	BIS(2-ETHYLHEXYL) PHTHALATE, WHOLE WATER	Fresh Acute	2000.	1	0	0.00				1	0	0.00						
		Drinking Water	6.	1	0	0.00				1	0	0.00						
39175	VINYL CHLORIDE-WHOLE WATER SAMPLE	Drinking Water	2.	1	0	0.00				1	0	0.00						
39180	TRICHLOROETHYLENE-WHOLE WATER SAMPLE	Fresh Acute	45000.	1	0	0.00				1	0	0.00						
		Drinking Water	5.	1	0	0.00				1	0	0.00						

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

EPA Water Quality Criteria Analysis for Station: WHIS0030

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
39340	GAMMA-BHC(LINDANE), WHOLE WATER	Fresh Acute	2.	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	0.2	2	0	0.00	1	0	0.00	1	0	0.00						
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATE	Fresh Acute	2.4	1	0	0.00				1	0	0.00						
		Drinking Water	2.	1	0	0.00				1	0	0.00						
39390	ENDRIN IN WHOLE WATER SAMPLE	Fresh Acute	0.18	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	2.	2	0	0.00	1	0	0.00	1	0	0.00						
39400	TOXAPHENE IN WHOLE WATER SAMPLE	Fresh Acute	0.73	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	3.	2	0	0.00	1	0	0.00	1	0	0.00						
39410	HEPTACHLOR IN WHOLE WATER SAMPLE	Fresh Acute	0.52	1	0	0.00				1	0	0.00						
		Drinking Water	0.4	1	0	0.00				1	0	0.00						
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE	Fresh Acute	0.52	1	0	0.00				1	0	0.00						
		Drinking Water	0.2	1	0	0.00				1	0	0.00						
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE	Drinking Water	40.	2	0	0.00	1	0	0.00	1	0	0.00						
39730	2,4-D IN WHOLE WATER SAMPLE	Drinking Water	70.	2	0	0.00	1	0	0.00	1	0	0.00						
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	8	0	0.00	5	0	0.00	2	0	0.00	1	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	6	0	0.00	4	0	0.00	2	0	0.00						
		Drinking Water	2.	6	0	0.00	4	0	0.00	2	0	0.00						
77093	CIS-1,2-DICHLOROETHYLENE, WHOLE WATER	Drinking Water	70.	1	0	0.00				1	0	0.00						
77128	STYRENE, WHOLE WATER	Drinking Water	100.	1	0	0.00				1	0	0.00						
77651	1,2-DIBROMOETHANE, WHOLE WATER	Drinking Water	0.05	2 &	0	0.00	1	0	0.00	1	0	0.00						
81405	CARBOFURAN (EURADAN) WHOLE WATER SAMPLE	Drinking Water	40.	1	0	0.00				1	0	0.00						
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: WHIS0031

NPS Station ID: WHIS0031 | LAT/LON: 40.601116/-122.539449 | Agency: 21CAL-1 | Date Created: 08/18/78
Location: WHISKEYTOWN RES AT DAM | FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): A3R03612324 /5246302
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 | Depth of Water: 0 | Aquifer:
Major Basin: CALIFORNIA | Elevation: 0 | Water Body Id:
Minor Basin: SACRAMENTO RIVER | ECO Region:
RF1 Index: 18020112006 | RF1 Mile Point: 0.660 | Distance from RF1: 7.00 | On/Off RF1: OFF
RF3 Index: 18020101031200.00 | RF3 Mile Point: 0.62 | Distance from RF3: 0.02 | On/Off RF3:
Description:
SURFACE WATER STATION; DATA MANAGER CODE: 5; AREAL CODE: ; BEGINNING OF RECORD: . ; ELEVATION: 1210 ;
STATION NAME: WHISKEYTOWN RES AT DAM ; DWR COUNTY CODE: 45; LATITUDE: 403604; LONGITUDE: 1223222;
CALIFORNIA COORDINATES: NORTH , EAST , ZONE ;
PUBLIC LAND SURVEY LOCATION: TOWNSHIP 32N, RANGE 06, SECTION 27EBASE M;
USGS QUADRANGLE NUMBER: 93 93; DRAINAGE AREA: ; GROUND WATER BASIN: ; NEAREST GAGE: ;
AGENCY-1: , ACODE ; AGENCY-2: , A2CODE ;
REMARKS:

Parameter Inventory for Station: WHIS0031

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/13/76-06/29/77	3	23.5	21.367	25.6	15.	31.503	5.613	**	**	**	**
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	05/14/63-01/22/64	2	54.25	54.25	63.5	45.	171.125	13.081	**	**	**	**
00075	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	05/14/63-01/22/64	2	4.5	4.5	8.	1.	24.5	4.95	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/13/76-05/08/86	4	1.	1.25	2.	1.	0.25	0.5	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/13/76-12/17/81	7	82.	78.429	88.	64.	98.952	9.947	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/14/63-01/22/64	2	82.5	82.5	92.	73.	180.5	13.435	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	06/29/77-06/29/77	2	8.8	8.8	9.5	8.1	0.98	0.99	**	**	**	**
00400	PH (STANDARD UNITS)	06/29/77-09/30/86	13	7.3	7.323	7.7	6.8	0.054	0.231	6.92	7.2	7.5	7.66
00400	CONVERTED PH (STANDARD UNITS)	06/29/77-09/30/86	13	7.3	7.261	7.7	6.8	0.058	0.24	6.92	7.2	7.5	7.66
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/29/77-09/30/86	13	0.05	0.055	0.158	0.02	0.001	0.035	0.022	0.032	0.063	0.127
00403	PH, LAB, STANDARD UNITS SU	05/14/63-12/17/81	4	7.45	7.525	7.9	7.3	0.069	0.263	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	05/14/63-12/17/81	4	7.447	7.474	7.9	7.3	0.073	0.269	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/14/63-12/17/81	4	0.036	0.034	0.05	0.013	0.	0.016	**	**	**	**
00629	NITROGEN, ORGANIC KJELDAHL, TOTAL (MG/L AS N)	09/20/77-06/01/78	5	0.2	0.14	0.2	0.	0.008	0.089	**	**	**	**
00635	NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	09/20/77-06/01/78	5	0.2	0.14	0.2	0.	0.008	0.089	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/14/63-01/22/64	2	35.	35.	42.	28.	98.	9.899	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/14/63-05/14/63	1	6.5	6.5	6.5	6.5	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/14/63-05/14/63	1	2.9	2.9	2.9	2.9	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	05/14/63-01/22/64	2	0.85	0.85	1.	0.7	0.045	0.212	**	**	**	**
39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	05/14/63-12/17/81	3	35.	33.	37.	27.	28.	5.292	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0031

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	4	0	0.00	2	0	0.00				2	0	0.00			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	2	0	0.00	2	0	0.00									
00400	PH	Fresh Chronic	9.	13	0	0.00	9	0	0.00	2	0	0.00	2	0	0.00			
		Other-Lo Lim.	6.5	13	0	0.00	9	0	0.00	2	0	0.00	2	0	0.00			
00403	PH, LAB	Fresh Chronic	9.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
		Other-Lo Lim.	6.5	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	2	0	0.00				1	0	0.00	1	0	0.00			
		Drinking Water	250.	2	0	0.00				1	0	0.00	1	0	0.00			

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

Seasonal Analysis for Season #1: 6/01 to 11/09 - Station WHIS0031

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400	PH (STANDARD UNITS)	06/29/77-09/30/86	9	7.4	7.367	7.7	6.8	0.07	0.265	6.8	7.25	7.55	7.7
00400	ONVERTED PH (STANDARD UNITS)	6/29/77-09/30/86	9	7.4	7.282	7.7	6.8	0.078	0.279	6.8	7.25	7.55	7.7
00400	ICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	6/29/77-09/30/86	9	0.04	0.052	0.158	0.02	0.002	0.042	0.02	0.028	0.057	0.158

** - Less than 9 observations ## - Computed 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: 11/10 to 2/20 - Station WHIS0031

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400	PH (STANDARD UNITS)	06/29/77-09/30/86	2	7.2	7.2	7.3	7.1	0.02	0.141	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/29/77-09/30/86	2	7.189	7.189	7.3	7.1	0.02	0.142	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/29/77-09/30/86	2	0.065	0.065	0.079	0.05	0.	0.021	**	**	**	**

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

Seasonal Analysis for Season #3: 2/21 to 5/31 - Station WHIS0031

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400	PH (STANDARD UNITS)	06/29/77-09/30/86	2	7.25	7.25	7.3	7.2	0.005	0.071	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/29/77-09/30/86	2	7.247	7.247	7.3	7.2	0.005	0.071	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/29/77-09/30/86	2	0.057	0.057	0.063	0.05	0.	0.009	**	**	**	**

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

Station Inventory for Station: WHIS0032

NPS Station ID: WHIS0032 LAT/LON: 40.601170/-122.539253 Agency: 11NPSWRD Date Created: 05/23/98
Location: WHISKEYTOWN RESERVOIR NEAR THE MAIN DAM FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /RESERV/TYPA/AMBNT STORET Station ID(s): WHIS_RAC_01
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 Depth of Water: 0 Aquifer:
Major Basin: CALIFORNIA Elevation: 0 Water Body Id:
Minor Basin: SACRAMENTO RIVER ECO Region:
RF1 Index: 18020112 RF1 Mile Point: 0.000 Distance from RF1: 0.80 On/Off RF1:
RF3 Index: 18010211001600.95 RF3 Mile Point: 5.98 Distance from RF3: 0.04 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE IGO CALIFORNIA-SHASTA COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS LOCATED ON WHISKEYTOWN RESERVOIR NEAR THE MAIN DAM INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA ARE FROM A REPORT BY ALEXANDER PETROVICH JR. OF THE WATER PROJECTS BRANCH OF THE RESOURCES AGENCY OF CALIFORNIA; DEPARTMENT OF FISH AND GAME (WATER PROJECTS BRANCH); ADMINISTRATIVE REPORT NO. 66-2. THE REPORT IS ENTITLED "A WATER QUALITY STUDY OF WHISKEYTOWN; BLACK BUTTE; STONY GORGE AND EAST PARK RESERVOIRS" AND DATED NOVEMBER 1966. FOR MORE INFORMATION ON THE WHISKEYTOWN UNIT OF THE PARK CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA: P.O. BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). THE DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0032

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	05/27/65-10/18/65	391	54.4	56.884	74.	49.6	44.198	6.648	50.4	51.7	61.	68.4
00021	TEMPERATURE, AIR (DEGREES FAHRENHEIT)	05/27/65-10/18/65	7	77.	74.	89.	59.	96.	9.798	**	**	**	**
00035	WIND VELOCITY (MILES PER HOUR)	07/08/65-10/18/65	6	7.5	9.167	17.5	2.5	46.667	6.831	**	**	**	**
00062	ELEVATION, RESERVOIR SURFACE WATER IN FEET	05/27/65-10/18/65	8	1208.8	1208.3	1209.2	1205.8	1.291	1.136	**	**	**	**
00070	TURBIDITY, (JACKSON CANDLE UNITS)	06/18/65-10/18/65	31	11.	11.516	30.	0.	46.658	6.831	3.2	8.	15.	21.6
00300	OXYGEN, DISSOLVED MG/L	05/27/65-10/18/65	35	8.	8.08	9.5	6.7	0.519	0.72	7.06	7.6	8.5	9.34
00400	PH (STANDARD UNITS)	05/27/65-10/18/65	35	7.3	7.26	7.5	7.	0.014	0.117	7.1	7.2	7.3	7.4
00400	CONVERTED PH (STANDARD UNITS)	05/27/65-10/18/65	35	7.3	7.244	7.5	7.	0.014	0.118	7.1	7.2	7.3	7.4
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/27/65-10/18/65	35	0.05	0.057	0.1	0.032	0.	0.017	0.04	0.05	0.063	0.079
49701	TRANSPARENCY, SECCHI DISK, WATER FT	05/27/65-07/26/65	4	11.	10.543	14.17	6.	12.071	3.474	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0032

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	31	0	0.00	31	0	0.00									
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	35	0	0.00	32	0	0.00				3	0	0.00			
00400	PH	Fresh Chronic	9.	35	0	0.00	32	0	0.00				3	0	0.00			
		Other-Lo Lim.	6.5	35	0	0.00	32	0	0.00				3	0	0.00			

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

Station Inventory for Station: WHIS0033

NPS Station ID: WHIS0033 | LAT/LON: 40.601227/-122.539282 | Agency: 11NPSWRD | Date Created: 05/30/98
Location: WHISKEYTOWN RESERVOIR NEAR THE DAM | FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /RESERV/TYPA/AMBNT | STORET Station ID(s): WHIS_CDWR_02
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 | Depth of Water: 0 | Aquifer:
Major Basin: CALIFORNIA | Elevation: 0 | Water Body Id:
Minor Basin: SACRAMENTO RIVER | ECO Region:
RF1 Index: 18020112 | RF1 Mile Point: 0.000 | Distance from RF1: 0.80 | On/Off RF1:
RF3 Index: 18010211001600.95 | RF3 Mile Point: 5.98 | Distance from RF3: 0.04 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE IGO CALIFORNIA-SHASTA COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS DESCRIBED BY THE CALIFORNIA DEPARTMENT OF WATER RESOURCES (CDWR) AS "WHISKEYTOWN RESERVOIR NEAR THE DAM" AND IS LOCATED INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA ARE FROM THE CDWR'S DATABASE AND ARE RELATED TO A STUDY OF THE CLEAR CREEK BASIN. THE STUDY BEGAN IN 1997 AND WILL CONTINUE FOR SEVERAL YEARS. FOR MORE INFORMATION ON THE DATA CONTACT THE CDWR; NORTHERN DIVISION: 2440 MAIN STREET; RED BLUFF CALIFORNIA 96080 (TEL 916-529-7300). FOR MORE INFORMATION ON THE WHISKEYTOWN UNIT OF THE PARK CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA: P.O. BOX 188; WHISKEYTOWN CALIFORNIA 96095 (TEL 916-241-6584). THE DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/08/97-01/07/98	257	11.4	11.074	16.7	7.5	4.561	2.136	7.9	8.5	12.1	13.6
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	10/08/97-01/07/98	257	52.5	51.931	62.1	45.5	14.82	3.85	46.2	47.3	53.8	56.5
00078	TRANSPARENCY, SECCHI DISC (METERS)	10/08/97-01/07/98	4	5.15	5.625	7.4	4.8	1.469	1.212	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/12/97-12/02/97	42	82.	82.095	84.	81.	0.381	0.617	81.3	82.	82.	83.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/08/97-12/02/97	64	80.	80.219	85.	77.	2.237	1.496	78.	79.	81.	82.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	10/08/97-01/07/98	256	5.35	4.788	11.1	1.	10.312	3.211	1.	1.225	8.075	8.9
00406	PH, FIELD, STANDARD UNITS SU	10/08/97-01/07/98	82	7.65	7.474	7.9	6.9	0.114	0.338	7.	7.1	7.7	7.9
00406	CONVERTED PH, FIELD, STANDARD UNITS	10/08/97-01/07/98	82	7.647	7.345	7.9	6.9	0.131	0.362	7.	7.1	7.7	7.9
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/08/97-01/07/98	82	0.023	0.045	0.126	0.013	0.001	0.034	0.013	0.02	0.079	0.1
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/08/97-12/02/97	66	38.	38.909	58.	32.	15.745	3.968	36.	37.	39.	40.3
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	10/08/97-12/02/97	6 ##	0.005	0.008	0.02	0.005	0.	0.006	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/08/97-12/02/97	6 ##	0.008	0.013	0.04	0.005	0.	0.014	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/08/97-12/02/97	6 ##	0.1	0.069	0.1	0.005	0.002	0.048	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/12/97-11/12/97	2	37.	37.	37.	37.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/12/97-11/12/97	2	5.	5.	5.	5.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/12/97-11/12/97	2	6.	6.	6.	6.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	11/12/97-11/12/97	2	2.	2.	2.	2.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/12/97-11/12/97	2 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	11/12/97-11/12/97	2	1.	1.	1.	1.	0.	0.	**	**	**	**

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

Parameter Inventory for Station: WHIS0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00946	SULFATE, DISSOLVED (MG/L AS SO4)	11/12/97-11/12/97	2	2.	2.	2.	2.	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	10/08/97-12/02/97	6 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	10/08/97-12/02/97	6 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	10/08/97-12/02/97	6 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	10/08/97-12/02/97	6 ##	0.5	0.833	2.	0.5	0.367	0.606	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	10/08/97-12/02/97	6	100.5	133.333	337.	36.	13342.267	115.509	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	10/08/97-12/02/97	6 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/08/97-12/02/97	6 ##	8.75	10.25	20.	2.5	74.875	8.653	**	**	**	**
01062	MOLYBDENUM, TOTAL (UG/L AS MO)	10/08/97-12/02/97	4 ##	2.5	3.375	6.	2.5	3.063	1.75	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	10/08/97-12/02/97	6	4.	6.	13.	3.	14.8	3.847	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	10/08/97-12/02/97	6 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	10/08/97-12/02/97	5	101.	131.	315.	36.	13150.5	114.676	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	10/08/97-12/02/97	6 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/12/97-11/12/97	2 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
71889	PHOSPHATE, ORTHO, SOLUBLE, AS PO4 (MG/L)	10/08/97-12/02/97	6 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	10/08/97-12/02/97	6 ##	0.1	0.117	0.2	0.1	0.002	0.041	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	10/08/97-12/02/97	64	2.25	2.388	6.2	0.7	2.097	1.448	0.8	1.3	3.25	4.3

** - 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 time series plot

EPA Water Quality Criteria Analysis for Station: WHIS0033

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	256	118	0.46	66	0	0.00	190	118	0.62						
00406	PH, FIELD	Fresh Chronic	9.	82	0	0.00	22	0	0.00	60	0	0.00						
		Other-Lo Lim.	6.5	82	0	0.00	22	0	0.00	60	0	0.00						
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	6	0	0.00	2	0	0.00	4	0	0.00						
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	2	0	0.00				2	0	0.00						
		Drinking Water	250.	2	0	0.00				2	0	0.00						
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	2	0	0.00				2	0	0.00						
01002	ARSENIC, TOTAL	Fresh Acute	360.	6	0	0.00	2	0	0.00	4	0	0.00						
		Drinking Water	50.	6	0	0.00	2	0	0.00	4	0	0.00						
01027	CADMIUM, TOTAL	Fresh Acute	3.9	6	0	0.00	2	0	0.00	4	0	0.00						
		Drinking Water	5.	6	0	0.00	2	0	0.00	4	0	0.00						
01034	CHROMIUM, TOTAL	Drinking Water	100.	6	0	0.00	2	0	0.00	4	0	0.00						
01042	COPPER, TOTAL	Fresh Acute	18.	6	0	0.00	2	0	0.00	4	0	0.00						
		Drinking Water	1300.	6	0	0.00	2	0	0.00	4	0	0.00						
01051	LEAD, TOTAL	Fresh Acute	82.	6	0	0.00	2	0	0.00	4	0	0.00						
		Drinking Water	15.	6	0	0.00	2	0	0.00	4	0	0.00						
01067	NICKEL, TOTAL	Fresh Acute	1400.	6	0	0.00	2	0	0.00	4	0	0.00						
		Drinking Water	100.	6	0	0.00	2	0	0.00	4	0	0.00						
01077	SILVER, TOTAL	Fresh Acute	4.1	6	0	0.00	2	0	0.00	4	0	0.00						
		Drinking Water	100.	6	0	0.00	2	0	0.00	4	0	0.00						
01147	SELENIUM, TOTAL	Fresh Acute	20.	6	0	0.00	2	0	0.00	4	0	0.00						
		Drinking Water	50.	6	0	0.00	2	0	0.00	4	0	0.00						
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	0 &	0	0.00												
71900	MERCURY, TOTAL	Fresh Acute	2.4	6	0	0.00	2	0	0.00	4	0	0.00						
		Drinking Water	2.	6	0	0.00	2	0	0.00	4	0	0.00						
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	64	0	0.00	22	0	0.00	42	0	0.00						

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

Station Inventory for Station: WHIS0034

NPS Station ID: WHIS0034 | LAT/LON: 40.601726/-122.535477 | Agency: 11NPSWRD | Date Created: 02/07/98
Location: EAST SIDE OF DAM | FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /RESERV/TYPA/AMBNT | STORET Station ID(s): WHIS_WQCB_10
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 | Depth of Water: 0 | Aquifer:
Major Basin: CALIFORNIA | Elevation: 0 | Water Body Id:
Minor Basin: SACRAMENTO RIVER | ECO Region:
RF1 Index: 18020112 | RF1 Mile Point: 0.000 | Distance from RF1: 0.80 | On/Off RF1:
RF3 Index: 18010211001600.95 | RF3 Mile Point: 5.98 | Distance from RF3: 0.04 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE IGO-CA SHASTA COUNTY 7.5 MINUTE (TOPOGRAPHIC) QUADRANGLE. THE SITE IS DESCRIBED BY THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD (WQCB) AS "EAST SIDE OF DAM." THE SITE IS LOCATED AT WHISKEYTOWN LAKE INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA ARE FROM FOUR BACTERIOLOGICAL SURVEYS PERFORMED BY THE WQCB IN 1986; 1987; 1990 AND 1991. FOR MORE INFORMATION ON THE BACTERIOLOGICAL SURVEYS CONTACT THE WQCB; 415 KNOLLCREST DR. SUITE 100; REDDING CA 96002 (TEL 916-224-4845). FOR MORE INFORMATION ON THE PARK'S WHISKEYTOWN UNIT CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; P.O. BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX970-225-9965).

Parameter Inventory for Station: WHIS0034

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/15/86-07/31/90	5	3.	8.4	27.	1.5	117.675	10.848	**	**	**	**
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	07/15/86-07/31/90	5	0.477	0.643	1.431	0.176	0.295	0.544	**	**	**	**
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			4.395								
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/15/86-07/31/90	5 ##	1.5	1.8	3.	1.5	0.45	0.671	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/15/86-07/31/90	5 ##	0.176	0.236	0.477	0.176	0.018	0.135	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			1.723								

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

EPA Water Quality Criteria Analysis for Station: WHIS0034

				Total	Exceed	Prop.	6/01-11/09			11/10-2/20			2/21-5/31			n/a		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	5	0	0.00	5	0	0.00									
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	Other-Hi Lim.	200.	5	0	0.00	5	0	0.00									

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

Station Inventory for Station: WHIS0035

NPS Station ID: WHIS0035 LAT/LON: 40.602226/-122.540005 Agency: 113BUREC Date Created: 01/03/87
Location: CLEAR CR ABOVE WHISKEYTOWN DAM, WHISKEYTOWN LAKE FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): LWSKTWN0 /WHTNTEMPB /SH23
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 Depth of Water: 0 Aquifer:
Major Basin: CALIFORNIA Elevation: 0 Water Body Id:
Minor Basin: SACRAMENTO RIVER ECO Region:
RF1 Index: 18020112 RF1 Mile Point: 0.000 Distance from RF1: 2.00 On/Off RF1:
RF3 Index: 18020112000300.00 RF3 Mile Point: 0.00 Distance from RF3: 0.03 On/Off RF3:
Description:
CLEAR CREEK APPROXIMATELY 1000 FEET ABOVE WHISKEYTOWN DAM IN WHISKEYTOWN LAKE

Parameter Inventory for Station: WHIS0035

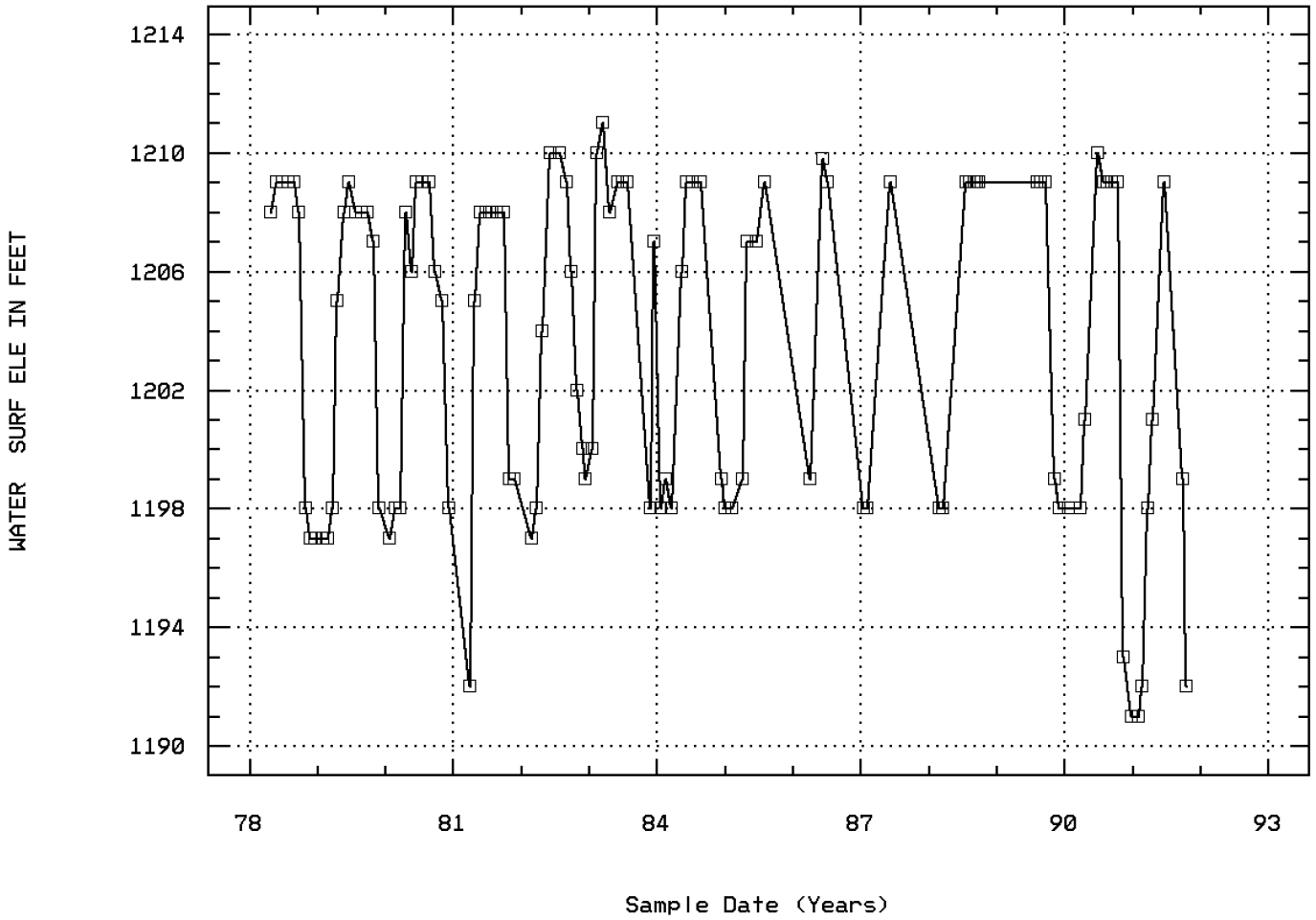
Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/26/78-09/13/90	1038	9.9	10.681	26.	3.9	17.083	4.133	6.9	8.	12.	16.5
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	10/11/90-10/18/91	92	49.4	50.222	69.5	43.2	36.965	6.08	44.1	45.625	53.375	60.03
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/11/87-07/27/90	18	24.4	26.028	40.	14.	73.12	8.551	14.45	18.725	32.1	40.
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/27/86-12/03/86	43	1208.	1205.93	1209.	1198.	19.685	4.437	1198.	1208.	1209.	1209.
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	04/26/78-10/18/91	1087	1207.	1203.969	1211.	1191.	31.158	5.582	1197.	1198.	1209.	1209.
72020p	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	04/26/78-10/18/91	1130	1100.	1099.441	1211.	892.	5181.219	71.981	1000.	1034.25	1175.	1200.

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

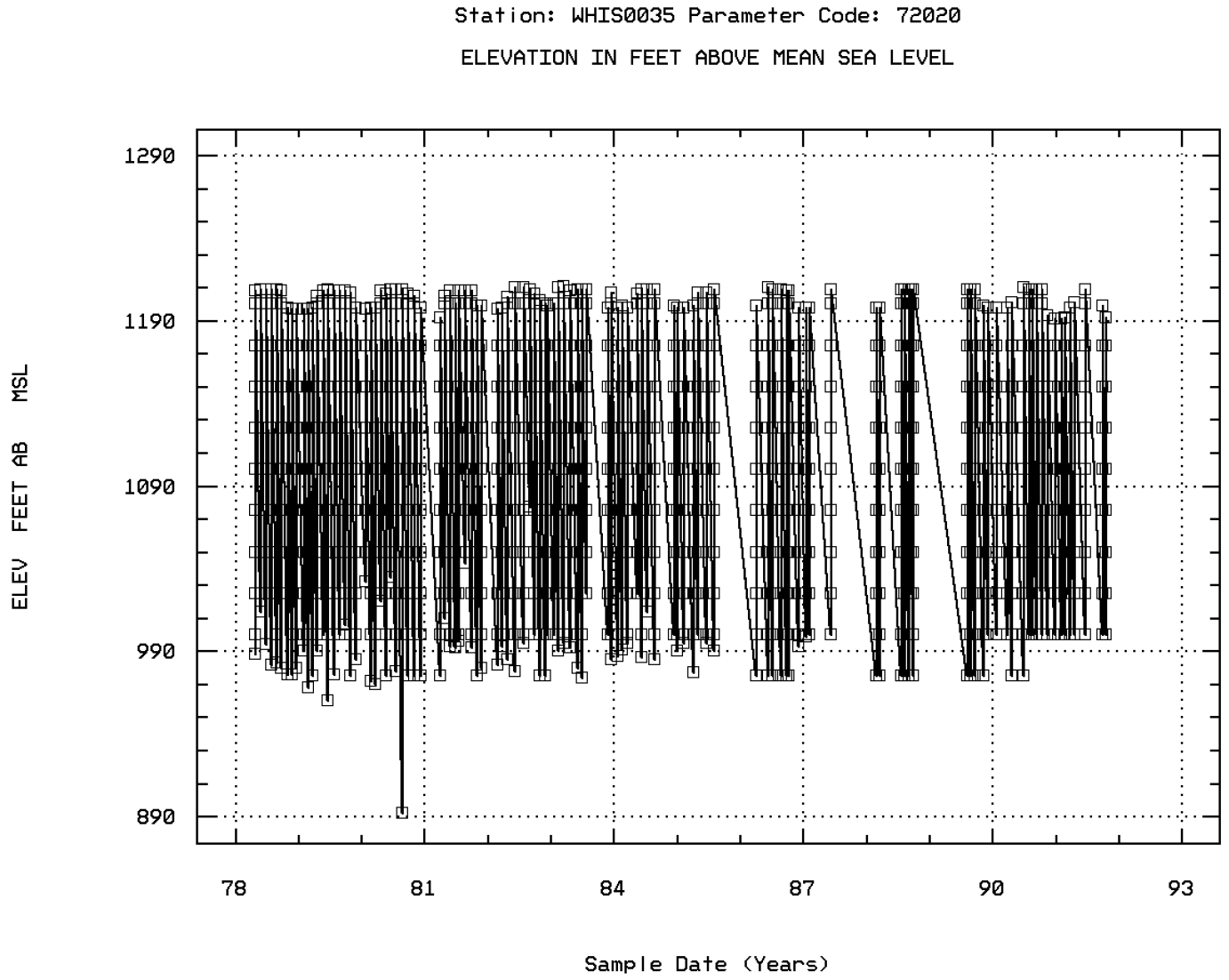
********** No EPA Water Quality Criteria exist to compare against the data at this station. **********

Station: WHIS0035 Parameter Code: 00062

ELEVATION, RESERVOIR SURFACE WATER IN F



CLEAR CR ABOVE WHISKEYTOWN DAM, WHISKEY



CLEAR CR ABOVE WHISKEYTOWN DAM, WHISKEY

Annual Analysis for 1978 - Station WHIS0035

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/26/78-09/13/90	91	10.5	11.799	25.9	5.1	21.664	4.654	5.22	9.	14.	19.46
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	04/26/78-10/18/91	91	1208.	1205.044	1209.	1197.	28.509	5.339	1197.	1198.	1209.	1209.
72020p	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	04/26/78-10/18/91	91	1100.	1101.286	1209.	976.	5277.384	72.646	1000.	1050.	1175.	1200.

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0035

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/26/78-09/13/90	114	9.	9.016	22.4	3.9	20.945	4.577	4.	5.6	11.1	16.9
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	04/26/78-10/18/91	114	1207.	1204.026	1209.	1197.	24.256	4.925	1197.	1198.	1208.	1208.5
72020p	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	04/26/78-10/18/91	114	1100.	1097.965	1209.	960.	5406.866	73.531	1000.	1025.	1175.	1200.

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0035

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/26/78-09/13/90	110	9.9	10.627	23.2	6.	12.392	3.52	7.3	8.35	11.575	15.96
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	04/26/78-10/18/91	110	1206.	1204.091	1209.	1197.	22.909	4.786	1198.	1198.	1209.	1209.
72020p	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	04/26/78-10/18/91	110	1100.	1100.609	1209.	892.	5539.36	74.427	1000.	1050.	1175.	1200.

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0035

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/26/78-09/13/90	92	11.	12.308	24.5	8.4	11.832	3.44	9.1	10.025	13.375	16.34
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	04/26/78-10/18/91	92	1208.	1203.978	1208.	1192.	30.571	5.529	1192.	1199.	1208.	1208.
72020p	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	04/26/78-10/18/91	92	1100.	1098.457	1208.	975.	5164.778	71.866	1000.	1029.5	1168.75	1200.

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0035

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/26/78-09/13/90	100	10.35	10.755	23.	6.7	13.201	3.633	7.2	7.825	11.95	14.93
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	04/26/78-10/18/91	100	1203.	1203.5	1210.	1197.	22.838	4.779	1197.1	1199.	1209.	1210.
72020p	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	04/26/78-10/18/91	100	1100.	1100.45	1210.	975.	5251.179	72.465	1000.	1031.25	1175.	1200.

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0035

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/26/78-09/13/90	92	8.6	9.001	22.6	6.1	7.621	2.761	6.47	7.725	9.375	10.65
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	04/26/78-10/18/91	92	1209.	1207.043	1211.	1198.	17.317	4.161	1198.6	1207.	1209.	1211.
72020p	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	04/26/78-10/18/91	92	1100.	1100.837	1211.	974.	5258.314	72.514	1000.	1031.25	1175.	1200.

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0035

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/26/78-09/13/90	80	9.7	10.503	23.7	6.9	15.616	3.952	7.	7.3	12.275	16.34
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	04/26/78-10/18/91	80	1206.	1203.538	1209.	1198.	25.492	5.049	1198.	1198.25	1209.	1209.
72020p	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	04/26/78-10/18/91	80	1100.	1099.813	1209.	985.	4999.724	70.709	1000.	1031.25	1168.75	1199.9

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

Annual Analysis for 1985 - Station WHIS0035

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/26/78-09/13/90	62	8.25	10.352	23.2	6.6	20.927	4.575	6.8	7.3	11.05	17.48
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	04/26/78-10/18/91	62	1207.	1203.161	1209.	1198.	22.793	4.774	1198.	1198.	1207.	1209.
72020p	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	04/26/78-10/18/91	62	1100.	1096.21	1209.	977.	5234.037	72.347	1000.	1025.	1156.25	1199.7

** - 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 1986 - Station WHIS0035

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/26/78-09/13/90	75	9.4	10.764	21.3	8.	11.207	3.348	8.26	8.9	11.2	14.84
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	04/26/78-10/18/91	32	1209.	1206.15	1209.8	1199.	24.101	4.909	1199.	1199.	1209.8	1209.8
72020p	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	04/26/78-10/18/91	75	1100.	1095.784	1209.8	975.	5742.121	75.777	997.2	1025.	1175.	1200.

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

Annual Analysis for 1987 - Station WHIS0035

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/26/78-09/13/90	29	7.8	9.29	22.6	6.	19.371	4.401	6.3	6.85	9.15	20.6
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	04/26/78-10/18/91	29	1198.	1201.793	1209.	1198.	28.313	5.321	1198.	1198.	1209.	1209.
72020p	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	04/26/78-10/18/91	29	1100.	1100.138	1209.	999.	4778.195	69.124	1000.	1037.5	1162.5	1198.

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0035

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/26/78-09/13/90	73	10.5	11.595	26.	5.9	22.952	4.791	6.7	9.15	12.2	19.94
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	04/26/78-10/18/91	73	1209.	1205.986	1209.	1198.	24.403	4.94	1198.	1198.	1209.	1209.
72020p	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	04/26/78-10/18/91	73	1100.	1098.507	1209.	975.	5620.837	74.972	1000.	1025.	1175.	1200.

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0035

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/26/78-09/13/90	52	10.3	11.642	21.3	8.9	11.126	3.336	9.03	9.725	12.	18.07
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	04/26/78-10/18/91	52	1209.	1205.173	1209.	1198.	26.028	5.102	1198.	1199.	1209.	1209.
72020p	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	04/26/78-10/18/91	52	1100.	1096.615	1209.	975.	5577.496	74.683	1000.	1025.	1168.75	1200.

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

Annual Analysis for 1990 - Station WHIS0035

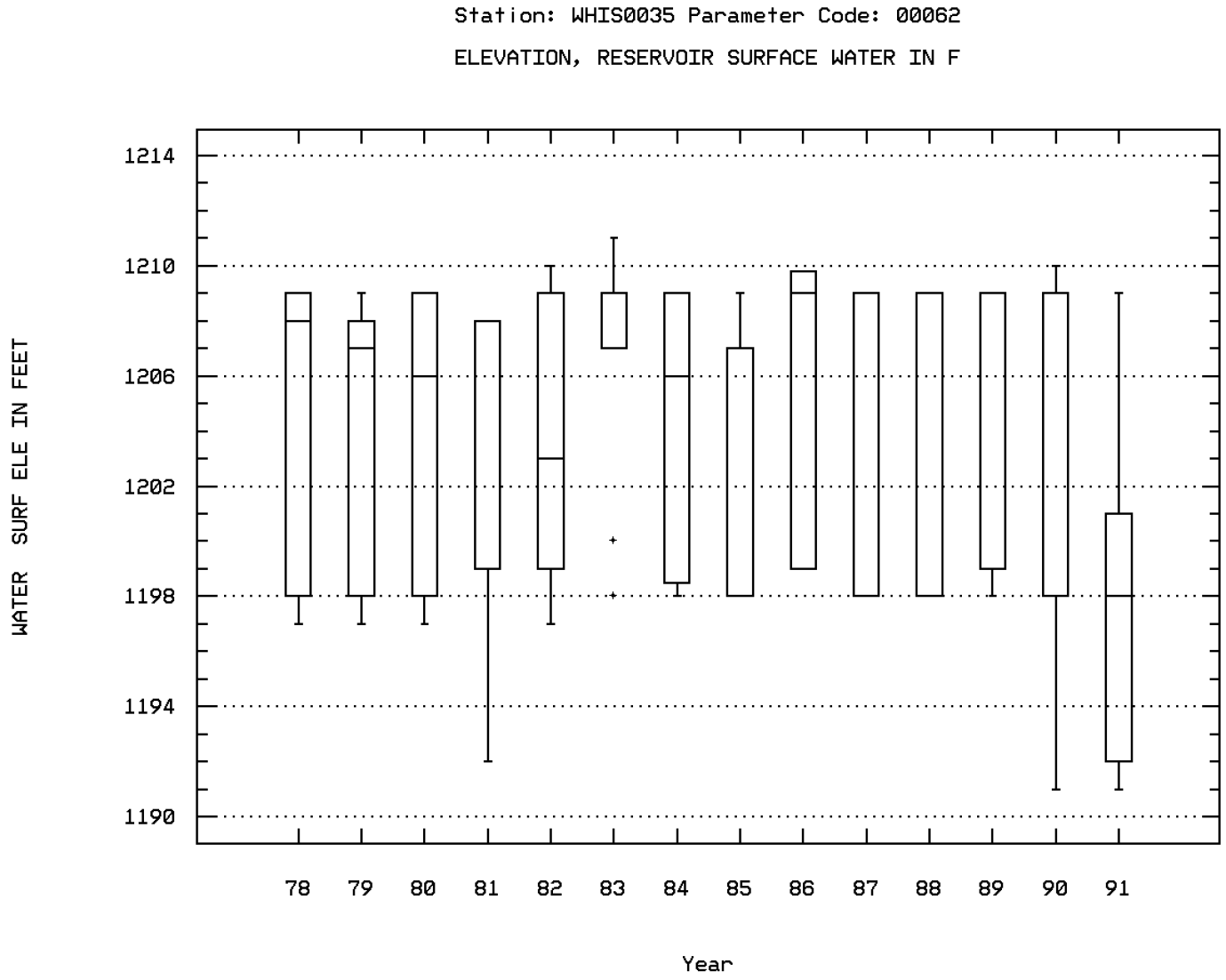
Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/26/78-09/13/90	68	9.2	11.326	26.	6.6	25.84	5.083	7.	7.4	13.4	20.83
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	04/26/78-10/18/91	96	1209.	1203.146	1210.	1191.	48.821	6.987	1192.4	1198.	1209.	1210.
72020p	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	04/26/78-10/18/91	96	1100.	1102.104	1210.	975.	4801.715	69.294	1000.	1050.	1168.75	1200.

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

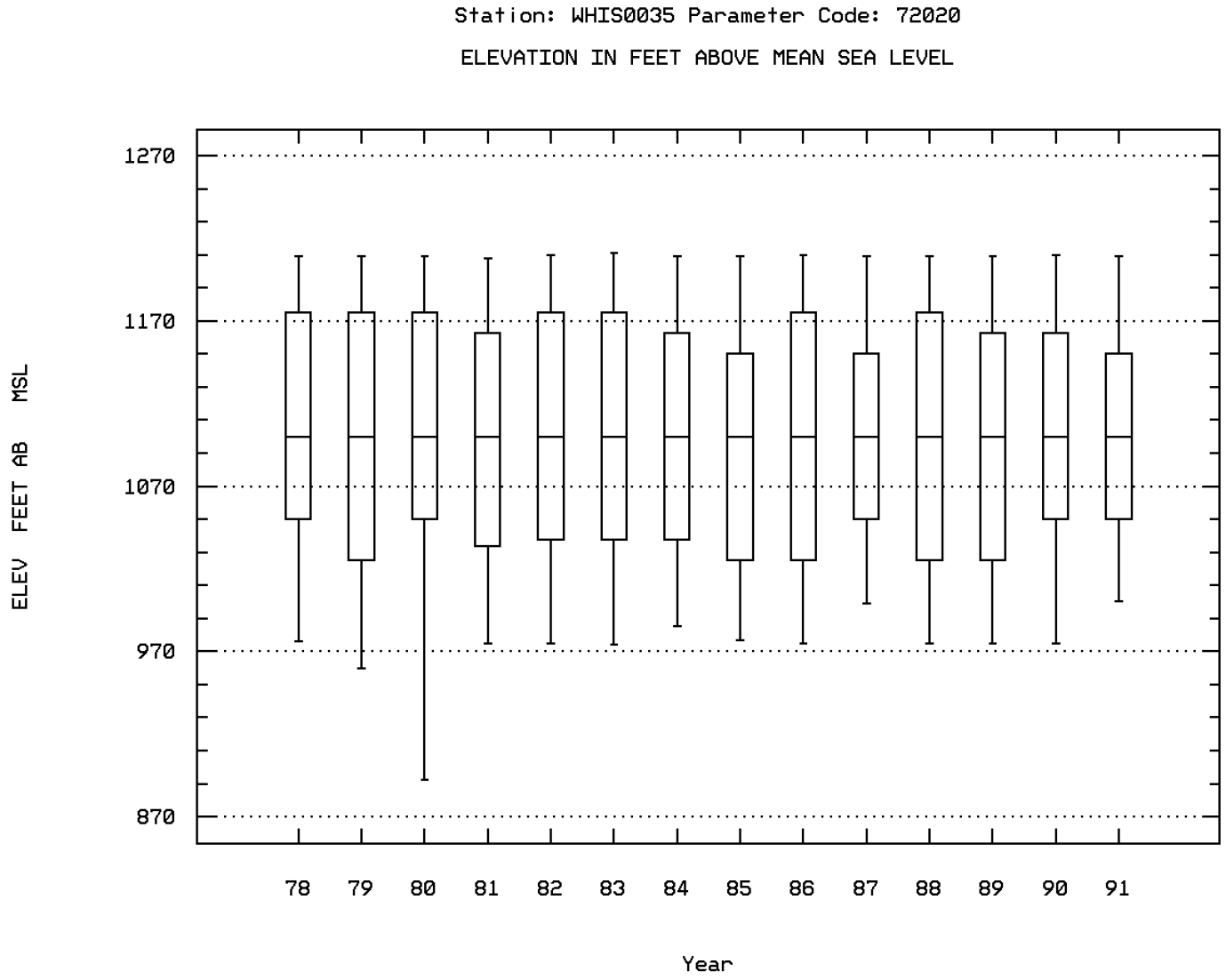
Annual Analysis for 1991 - Station WHIS0035

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	04/26/78-10/18/91	64	1198.	1197.609	1209.	1191.	37.766	6.145	1191.	1192.	1201.	1209.
72020p	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	04/26/78-10/18/91	64	1100.	1101.281	1209.	1000.	4271.285	65.355	1000.	1050.	1150.	1192.

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



CLEAR CR ABOVE WHISKEYTOWN DAM, WHISKEY



CLEAR CR ABOVE WHISKEYTOWN DAM, WHISKEY

Seasonal Analysis for Season #1: 6/01 to 11/09 - Station WHIS0035

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/26/78-09/13/90	541	11.1	12.747	26.	5.9	18.306	4.279	9.	9.9	14.	20.6
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	04/26/78-10/18/91	546	1209.	1207.527	1210.	1192.	11.929	3.454	1202.	1208.	1209.	1209.
72020p	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	04/26/78-10/18/91	579	1100.	1103.057	1210.	892.	5445.35	73.793	1000.	1050.	1175.	1200.

** - Less than 9 observations ## - Computed 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: 11/10 to 2/20 - Station WHIS0035

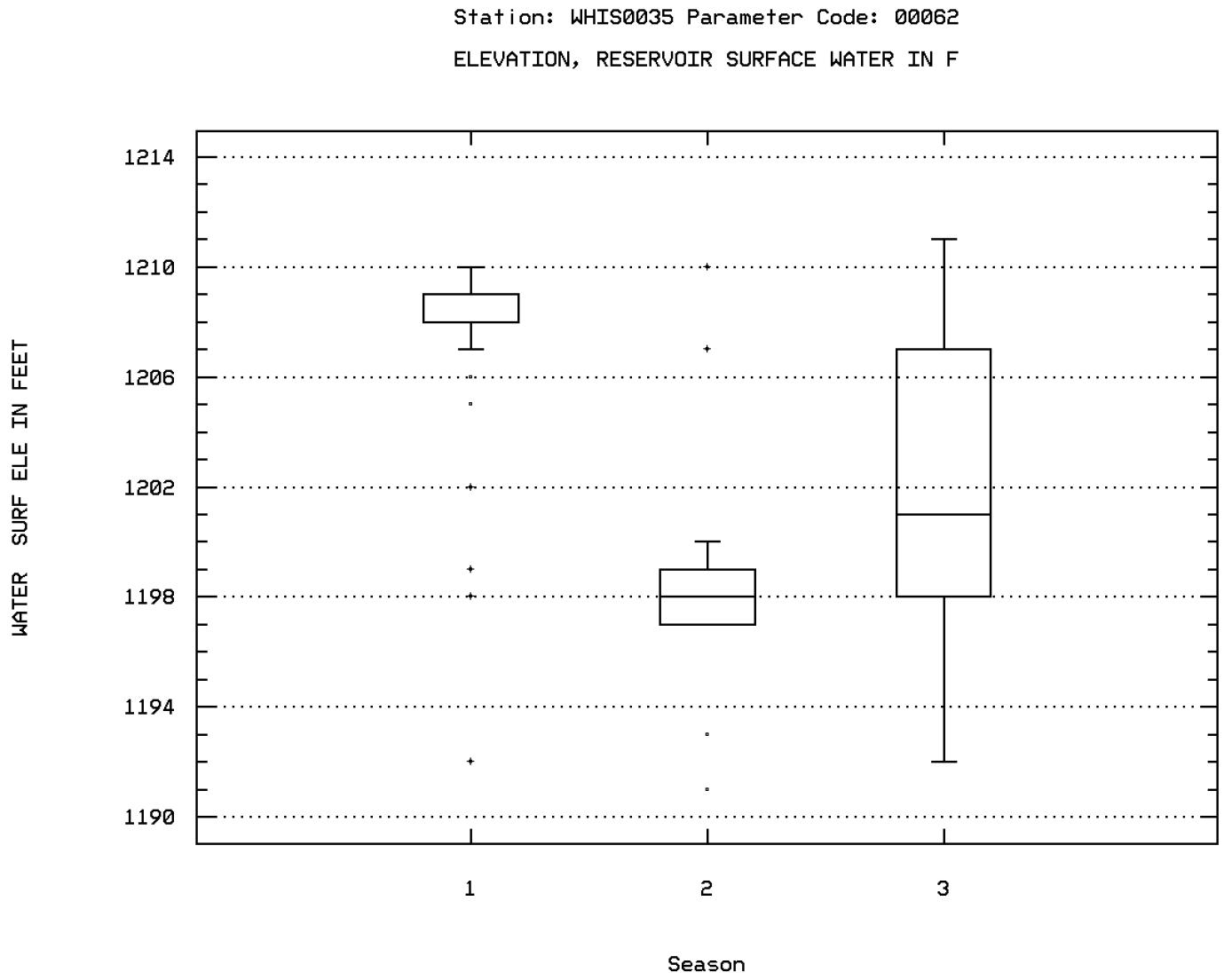
Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/26/78-09/13/90	223	7.8	7.976	12.5	3.9	3.285	1.812	6.1	7.	9.1	10.62
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	04/26/78-10/18/91	240	1198.	1198.408	1210.	1191.	15.456	3.931	1193.	1197.	1199.	1200.
72020p	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	04/26/78-10/18/91	250	1100.	1094.208	1210.	975.	4668.101	68.324	1000.	1025.	1150.	1196.6

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

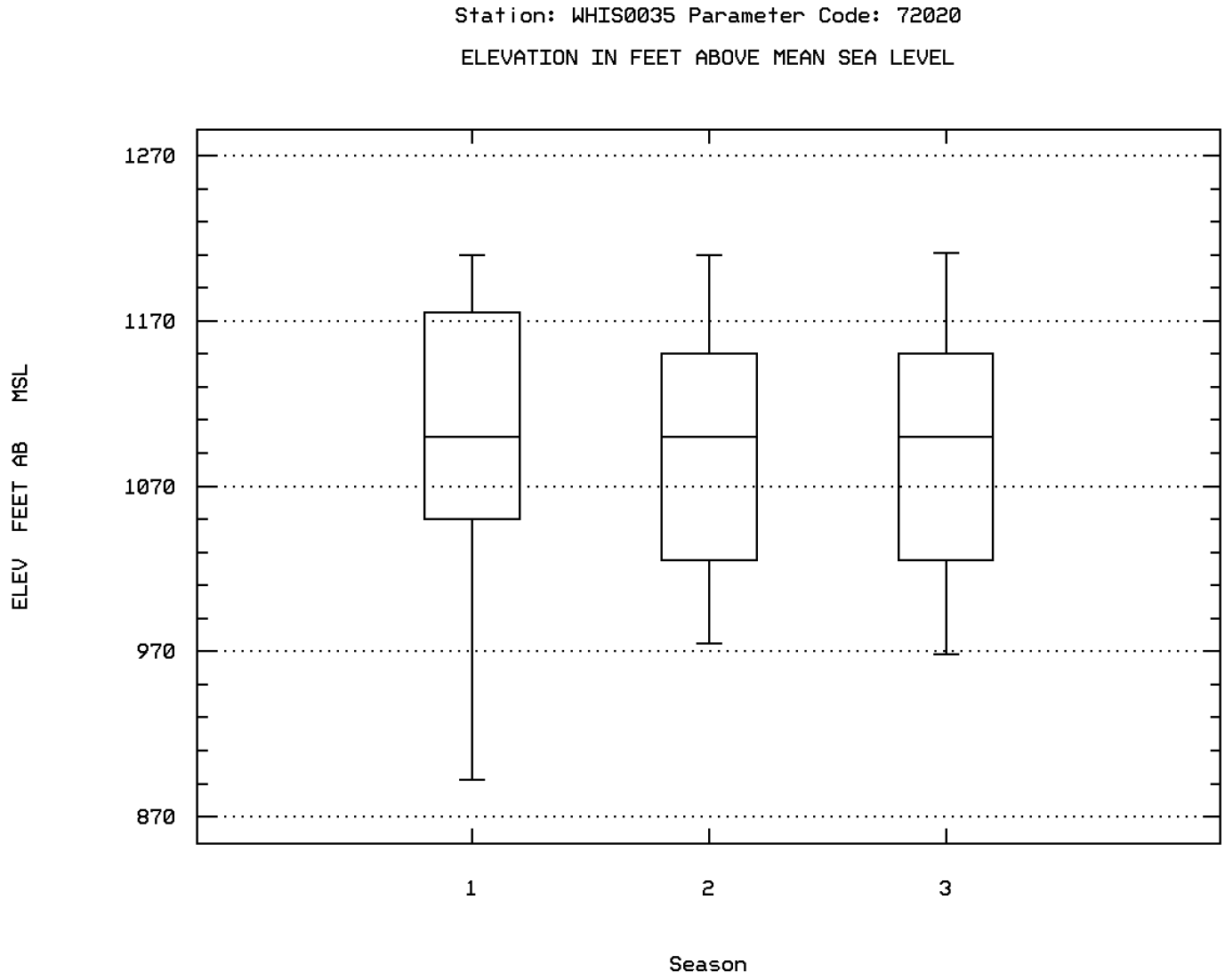
Seasonal Analysis for Season #3: 2/21 to 5/31 - Station WHIS0035

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/26/78-09/13/90	274	8.4	8.804	20.	4.	8.036	2.835	5.9	7.2	9.8	12.15
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	04/26/78-10/18/91	301	1201.	1201.95	1211.	1192.	26.941	5.19	1197.	1198.	1207.	1208.
72020p	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	04/26/78-10/18/91	301	1100.	1096.834	1211.	968.	5077.886	71.259	1000.	1025.	1150.	1198.8

** - 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



CLEAR CR ABOVE WHISKEYTOWN DAM, WHISKEY



CLEAR CR ABOVE WHISKEYTOWN DAM, WHISKEY

Station Inventory for Station: WHIS0036

NPS Station ID: WHIS0036 | LAT/LON: 40.605920/-122.531143 | Agency: 11NPSWRD | Date Created: 02/07/98
Location: EAST BEACH; SOUTH SIDE | FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /RESERV/TYPA/AMBNT | STORET Station ID(s): WHIS_WQCB_09
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 | Depth of Water: 0 | Aquifer:
Major Basin: CALIFORNIA | Elevation: 0 | Water Body Id:
Minor Basin: SACRAMENTO RIVER | ECO Region:
RF1 Index: 18020112 | RF1 Mile Point: 0.000 | Distance from RF1: 0.80 | On/Off RF1:
RF3 Index: 18010211001600.95 | RF3 Mile Point: 5.98 | Distance from RF3: 0.04 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE IGO-CA SHASTA COUNTY 7.5 MINUTE (TOPOGRAPHIC) QUADRANGLE. THE SITE IS DESCRIBED BY THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD (WQCB) AS "EAST BEACH; SOUTH SIDE." THE SITE IS LOCATED AT WHISKEYTOWN LAKE INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA ARE FROM FOUR BACTERIOLOGICAL SURVEYS PERFORMED BY THE WQCB IN 1986; 1987; 1990 AND 1991. FOR MORE INFORMATION ON THE BACTERIOLOGICAL SURVEY CONTACT THE WQCB; 415 KNOLLCREST DR. SUITE 100; REDDING CA 96002 (TEL 916-224-4845). FOR MORE INFORMATION ON THE WHISKEYTOWN UNIT OF THE PARK CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; P.O. BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/07/87-07/17/91	4	9.	11.25	23.	4.	66.917	8.18	**	**	**	**
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	07/07/87-07/17/91	4	0.954	0.968	1.362	0.602	0.096	0.311	**	**	**	**
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			9.291								
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/07/87-07/17/91	4 ##	1.5	2.125	4.	1.5	1.563	1.25	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/07/87-07/17/91	4 ##	0.176	0.283	0.602	0.176	0.045	0.213	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			1.917								

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

EPA Water Quality Criteria Analysis for Station: WHIS0036

				Total	Exceed	Prop.	----------6/01-11/09----------			----------11/10-2/20----------			----------2/21-5/31----------			--------------n/a--------------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	4	0	0.00	4	0	0.00									
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	Other-Hi Lim.	200.	4	0	0.00	4	0	0.00									

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

Station Inventory for Station: WHIS0037

NPS Station ID: WHIS0037
LAT/LON: 40.607142/-122.529032
Agency: 11NPSWRD
Date Created: 02/07/98
Location: EAST BEACH; NORTH SIDE
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /RESERV/TYPA/AMBNT
STORET Station ID(s): WHIS_WQCB_08
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112
Depth of Water: 0
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112
RF1 Mile Point: 0.000
Distance from RF1: 0.80
On/Off RF1:
RF3 Index: 18010211001600.95
RF3 Mile Point: 5.98
Distance from RF3: 0.04
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE IGO-CA SHASTA COUNTY 7.5 MINUTE (TOPOGRAPHIC) QUADRANGLE. THE SITE IS DESCRIBED BY THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD (WQCB) AS "EAST BEACH; NORTH SIDE." THE SITE IS LOCATED AT WHISKEYTOWN LAKE INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA ARE FROM FOUR BACTERIOLOGICAL SURVEYS PERFORMED BY THE WQCB IN 1986; 1987; 1990 AND 1991. FOR MORE INFORMATION ON THE BACTERIOLOGICAL SURVEY CONTACT THE WQCB; 415 KNOLLCREST DR. SUITE 100; REDDING CA 96002 (TEL 916-224-4845). FOR MORE INFORMATION ON THE WHISKEYTOWN UNIT OF THE PARK CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; P.O. BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0037

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/15/86-07/17/91	7	43.	76.714	150.	15.	3037.571	55.114	**	**	**	**
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	07/15/86-07/17/91	7	1.633	1.771	2.176	1.176	0.13	0.36	**	**	**	**
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			59.023								
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/15/86-07/17/91	7 ##	1.5	15.429	75.	1.5	752.119	27.425	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/15/86-07/17/91	7 ##	0.176	0.649	1.875	0.176	0.485	0.696	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			4.457								

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

EPA Water Quality Criteria Analysis for Station: WHIS0037

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	7	0	0.00	7	0	0.00									
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	Other-Hi Lim.	200.	7	0	0.00	7	0	0.00									

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

Station Inventory for Station: WHIS0038

NPS Station ID: WHIS0038 LAT/LON: 40.608170/-122.576198 Agency: 11NPSWRD Date Created: 04/10/99
Location: BRANDY CREEK; AT MAIN POWERLINE OVERCROSSING FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): WHIS_NPS_22
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 Depth of Water: 0 Aquifer:
Major Basin: CALIFORNIA Elevation: 0 Water Body Id:
Minor Basin: SACRAMENTO RIVER ECO Region:
RF1 Index: 18020112 RF1 Mile Point: 0.000 Distance from RF1: 0.80 On/Off RF1:
RF3 Index: 18010211001600.95 RF3 Mile Point: 5.98 Distance from RF3: 0.04 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE IGO CA 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE WAS DESCRIBED BY THE NPS AS "BRANDY CREEK; AT MAIN POWERLINE OVERCROSSING" INSIDE OF THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA WERE FROM MISCELLANEOUS PAPERS IN A BROWN FOLDER LABELED "WATER QUALITY." THE FOLDER WAS FROM THE PARK. THE LOCATION OF THE STATION WAS ESTIMATED USING SITE DESCRIPTIONS. LATITUDE AND LONGITUDE VALUES WERE OBTAINED BY DIGITIZING A POINT MARKED ON A QUADRANGLE. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; PO BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NPS WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0038

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/10/84-08/10/84	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/10/84-08/10/84	1	28.	28.	28.	28.	0.	0.	**	**	**	**
00032	CLOUD COVER (PERCENT)	08/10/84-08/10/84	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00035	WIND VELOCITY (MILES PER HOUR)	08/10/84-08/10/84	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00045	PRECIPITATION, TOTAL (INCHES PER DAY)	08/10/84-08/10/84	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/10/84-08/10/84	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/10/84-08/10/84	1	58.	58.	58.	58.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	08/10/84-08/10/84	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	08/10/84-08/10/84	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0038

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00	1	0	0.00									
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: WHIS0039

NPS Station ID: WHIS0039 | LAT/LON: 40.609753/-122.530310 | Agency: 11NPSWRD | Date Created: 02/07/98
Location: BELOW PARK HEADQUARTERS | FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /RESERV/TYPA/AMBNT | STORET Station ID(s): WHIS_WQCB_07
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 | Depth of Water: 0 | Aquifer:
Major Basin: CALIFORNIA | Elevation: 0 | Water Body Id:
Minor Basin: SACRAMENTO RIVER | ECO Region:
RF1 Index: 18020112 | RF1 Mile Point: 0.000 | Distance from RF1: 0.80 | On/Off RF1:
RF3 Index: 18010211001600.95 | RF3 Mile Point: 5.98 | Distance from RF3: 0.04 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE IGO-CA SHASTA COUNTY 7.5 MINUTE (TOPOGRAPHIC) QUADRANGLE. THE SITE IS DESCRIBED BY THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD (WQCB) AS "BELOW PARK HEADQUARTERS." THE SITE IS LOCATED AT WHISKEYTOWN LAKE INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA ARE FROM FOUR BACTERIOLOGICAL SURVEYS PERFORMED BY THE WQCB IN 1986; 1987; 1990 AND 1991. FOR MORE INFORMATION ON THE BACTERIOLOGICAL SURVEYS CONTACT THE WQCB; 415 KNOLLCREST DR. SUITE 100; REDDING CA 9600 (TEL 916-224-4845). FOR MORE INFORMATION ON THE WHISKEYTOWN UNIT OF THE PARK CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; P.O. BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0039

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/15/86-07/07/87	3	23.	37.667	75.	15.	1061.333	32.578	**	**	**	**
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	07/15/86-07/07/87	3	1.362	1.471	1.875	1.176	0.131	0.362	**	**	**	**
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			29.577								
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/15/86-07/07/87	3	4.	3.167	4.	1.5	2.083	1.443	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/15/86-07/07/87	3	0.602	0.46	0.602	0.176	0.06	0.246	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			2.884								

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

EPA Water Quality Criteria Analysis for Station: WHIS0039

				Total	Exceed	Prop.	----------6/01-11/09----------			----------11/10-2/20----------			----------2/21-5/31----------			--------------n/a--------------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	3	0	0.00	3	0	0.00									
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	Other-Hi Lim.	200.	3	0	0.00	3	0	0.00									

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

Station Inventory for Station: WHIS0040

NPS Station ID: WHIS0040 | LAT/LON: 40.609753/-122.530310 | Agency: 11NPSWRD | Date Created: 02/20/99
Location: SOUTH OF PARK HEADQUARTERS | FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /RESERV/TYPA/AMBNT | STORET Station ID(s): WHIS_WQCB2_06
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 | Depth of Water: 0 | Aquifer:
Major Basin: CALIFORNIA | Elevation: 0 | Water Body Id:
Minor Basin: SACRAMENTO RIVER | ECO Region:
RF1 Index: 18020112 | RF1 Mile Point: 0.000 | Distance from RF1: 0.80 | On/Off RF1:
RF3 Index: 18010211001600.95 | RF3 Mile Point: 5.98 | Distance from RF3: 0.04 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE IGO CA-SHASTA COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS DESCRIBED AS "SOUTH OF PARK HEADQUARTERS" AND IS LOCATED ON WHISKEYTOWN LAKE INSIDE THE WHISKEYTOWN- SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA ARE FROM A MEMORANDUM IN THE ARCHIVE FILES LOCATED AT THE PARK AND ARE BELIEVED TO BE FROM THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD. FOR MORE INFORMATION ON THE WHISKEYTOWN UNIT OF THE PARK CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; P.O. BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0040

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/05/76-07/04/77	4	780.	1050.	2400.	240.	943066.667	971.116	**	**	**	**
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	07/05/76-07/04/77	4	2.852	2.866	3.38	2.38	0.191	0.437	**	**	**	**
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			734.756								
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/05/76-07/04/77	4	122.	177.	460.	4.	47972.	219.025	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/05/76-07/04/77	4	1.491	1.562	2.663	0.602	1.241	1.114	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			36.456								

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

EPA Water Quality Criteria Analysis for Station: WHIS0040

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	4	2	0.50	4	2	0.50									
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	Other-Hi Lim.	200.	4	2	0.50	4	2	0.50									

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

Station Inventory for Station: WHIS0041

NPS Station ID: WHIS0041 LAT/LON: 40.610559/-122.529727 Agency: 21CAL-3 Date Created: 11/29/86
Location: 45-506 HEADQUARTERS (WHISKEYTOWN LAKE) FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/MUN/INTAKE/AMBNT/LAKE STORET Station ID(s): A45/506-INTAKE
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 Depth of Water: 0 Aquifer:
Major Basin: CALIFORNIA Elevation: 0 Water Body Id:
Minor Basin: SACRAMENTO RIVER ECO Region:
RF1 Index: 18020112 RF1 Mile Point: 0.000 Distance from RF1: 3.10 On/Off RF1:
RF3 Index: 18020112000500.71 RF3 Mile Point: 0.82 Distance from RF3: 0.02 On/Off RF3:
Description:
DIST 01 WHISKEYTOWN NATIONAL RECREATION AREA

Parameter Inventory for Station: WHIS0041

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/17/80-09/09/82	2	80.5	80.5	86.	75.	60.5	7.778	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	03/17/80-09/09/82	2	7.5	7.5	7.9	7.1	0.32	0.566	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	03/17/80-09/09/82	2	7.337	7.337	7.9	7.1	0.373	0.611	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/80-09/09/82	2	0.046	0.046	0.079	0.013	0.002	0.047	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/17/80-03/17/80	1	30.	30.	30.	30.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	03/17/80-09/09/82	2	43.	43.	49.	37.	72.	8.485	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	03/17/80-09/09/82	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	03/17/80-09/09/82	2	36.5	36.5	42.	31.	60.5	7.778	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	03/17/80-09/09/82	2	6.	6.	7.2	4.8	2.88	1.697	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	03/17/80-09/09/82	2	5.	5.	6.8	3.2	6.48	2.546	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	03/17/80-09/09/82	2	3.	3.	3.	3.	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	03/17/80-09/09/82	2	0.405	0.405	0.48	0.33	0.011	0.106	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	03/17/80-09/09/82	2 ##	1.125	1.125	2.	0.25	1.531	1.237	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	03/17/80-09/09/82	2	3.	3.	4.	2.	2.	1.414	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	03/17/80-09/09/82	2 ##	0.03	0.03	0.035	0.025	0.	0.007	**	**	**	**
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	03/17/80-09/09/82	2 ##	0.013	0.013	0.015	0.01	0.	0.004	**	**	**	**
39045	2,4,5-TP INCLUDES ACIDS & SALTS WATER SAMPL UG/L	03/17/80-03/17/80	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	03/17/80-03/17/80	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	03/17/80-03/17/80	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	03/17/80-03/17/80	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	03/17/80-03/17/80	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	03/17/80-03/17/80	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/17/80-09/09/82	2	51.5	51.5	56.	47.	40.5	6.364	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/17/80-09/09/82	2 ##	0.023	0.023	0.025	0.02	0.	0.004	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0041

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00403	PH, LAB	Fresh Chronic	9.	2	0	0.00	1	0	0.00				1	0	0.00			
		Other-Lo Lim.	6.5	2	0	0.00	1	0	0.00				1	0	0.00			

& - 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: WHIS0041

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	250.	2	0	0.00	1	0	0.00				1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	2	0	0.00	1	0	0.00				1	0	0.00			
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	2	0	0.00	1	0	0.00				1	0	0.00			
39045	2,4,5-TP INCLUDES ACIDS & SALTS WATER SA	Drinking Water	50.	1	0	0.00							1	0	0.00			
39340	GAMMA-BHC(LINDANE), WHOLE WATER	Fresh Acute	2.	1	0	0.00							1	0	0.00			
		Drinking Water	0.2	1	0	0.00							1	0	0.00			
39390	ENDRIN IN WHOLE WATER SAMPLE	Fresh Acute	0.18	1	0	0.00							1	0	0.00			
		Drinking Water	2.	1	0	0.00							1	0	0.00			
39400	TOXAPHENE IN WHOLE WATER SAMPLE	Fresh Acute	0.73	1	0	0.00							1	0	0.00			
		Drinking Water	3.	1	0	0.00							1	0	0.00			
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE	Drinking Water	40.	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			
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	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: WHIS0042

NPS Station ID: WHIS0042
LAT/LON: 40.611198/-122.529420
Agency: 11NPSWRD
Date Created: 05/23/98
Location: HEADQUARTERS (WHISKEYTOWN LAKE)
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /RESERV/TYPA/AMBNT
STORET Station ID(s): WHIS_CDHS_3
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112
Depth of Water: 0
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112
RF1 Mile Point: 0.000
Distance from RF1: 0.80
On/Off RF1:
RF3 Index: 18010211001600.95
RF3 Mile Point: 5.98
Distance from RF3: 0.04
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE IGO CA-SHASTA COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS DESCRIBED BY THE CALIFORNIA DEPARTMENT OF HEALTH SERVICES (CDHS) AS "HEADQUARTERS (WHISKEYTOWN LAKE)" AND IS LOCATED NEAR THE PARK HEADQUARTERS ON WHISKEYTOWN LAKE INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE CDHS DATA WERE OBTAINED FROM THE NATIONAL PARK SERVICE (NPS) AND THREE COMMUNITY SERVICE DISTRICTS. FOR MORE INFORMATION ON THE DATA CONTACT THE CDHS; DRINKING WATER PROGRAM; PO BOX 942732 MS 92; SACRAMENTO CA 94234 (TEL 916-323-4670). FOR MORE INFORMATION ON THE WHISKEYTOWN UNIT OF THE PARK CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; PO BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NPS WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0042

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	04/16/84-04/16/84	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00086	ODOR (THRESHOLD NUMBER AT 60 DEG C)	04/16/84-04/16/84	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/16/84-02/11/91	3	101.	116.	170.	77.	2331.	48.28	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	04/16/84-02/11/91	3	7.4	7.433	7.8	7.1	0.123	0.351	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	04/16/84-02/11/91	3	7.4	7.346	7.8	7.1	0.135	0.367	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/16/84-02/11/91	3	0.04	0.045	0.079	0.016	0.001	0.032	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/10/87-02/11/91	2	58.	58.	72.	44.	392.	19.799	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	04/16/84-02/11/91	3	54.	56.	72.	42.	228.	15.1	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	04/16/84-02/11/91	3	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	04/16/84-02/11/91	3	44.	45.667	60.	33.	184.333	13.577	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	04/16/84-02/11/91	3	6.	6.333	8.	5.	2.333	1.528	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	04/16/84-02/11/91	3	7.1	7.367	10.	5.	6.303	2.511	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	04/16/84-02/11/91	3	3.38	3.493	5.	2.1	2.112	1.453	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	04/16/84-04/10/87	2 ##	0.45	0.45	0.5	0.4	0.005	0.071	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	04/16/84-02/11/91	3	3.	5.667	13.	1.	41.333	6.429	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	04/16/84-02/11/91	3 ##	2.	1.5	2.5	0.	1.75	1.323	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	04/16/84-02/11/91	3 ##	0.05	0.068	0.13	0.025	0.003	0.055	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	04/16/84-02/11/91	3 ##	5.	6.8	15.	0.4	55.72	7.465	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	04/16/84-02/11/91	3 ##	250.	170.667	250.	12.	18881.333	137.409	**	**	**	**

** - Less than 9 observations ## - 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: WHIS0042

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01027	CADMIUM, TOTAL (UG/L AS CD)	04/16/84-02/11/91	3 ##	2.5	3.	6.	0.5	7.75	2.784	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	04/16/84-02/11/91	3 ##	5.	7.167	15.	1.5	49.083	7.006	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	04/16/84-02/11/91	3 ##	5.	35.333	100.	1.	3140.333	56.039	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	04/16/84-02/11/91	3 ##	50.	134.667	324.	30.	26985.333	164.272	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	04/16/84-02/11/91	3 ##	5.	6.8	15.	0.4	55.72	7.465	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	04/16/84-02/11/91	3 ##	15.	11.667	15.	5.	33.333	5.774	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	04/16/84-02/11/91	3 ##	5.	7.	15.	1.	52.	7.211	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	04/16/84-02/11/91	3	59.	59.667	100.	20.	1600.333	40.004	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	02/11/91-02/11/91	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	04/16/84-02/11/91	3 ##	2.5	1.8	2.5	0.4	1.47	1.212	**	**	**	**
01501	ALPHA, TOTAL	11/06/87-11/06/87	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
01502	ALPHA, TOTAL, COUNTING ERROR	11/06/87-11/06/87	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	04/16/84-02/11/91	3 ##	0.025	0.028	0.05	0.01	0.	0.02	**	**	**	**
39045	2,4,5-TP INCLUDES ACIDS & SALTS WATER SAMPL UG/L	04/16/84-04/16/84	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	04/16/84-04/16/84	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	04/16/84-04/16/84	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	04/16/84-04/16/84	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	04/16/84-04/16/84	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	04/16/84-04/16/84	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/16/84-02/11/91	3	82.	77.667	108.	43.	1070.333	32.716	**	**	**	**
71814	LANGELIER INDEX, CORROSIVITY, WATER, INDEX NUMBER	02/11/91-02/11/91	1	-1.2	-1.2	-1.2	-1.2	0.	0.	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	04/16/84-02/11/91	3 ##	0.2	0.25	0.5	0.05	0.053	0.229	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	04/16/84-02/11/91	3 ##	0.2	0.267	0.5	0.1	0.043	0.208	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	04/16/84-04/16/84	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0042

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00403	PH, LAB	Fresh Chronic	9.	3	0	0.00				1	0	0.00	2	0	0.00			
		Other-Lo Lim.	6.5	3	0	0.00				1	0	0.00	2	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	3	0	0.00				1	0	0.00	2	0	0.00			
		Drinking Water	250.	3	0	0.00				1	0	0.00	2	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	3	0	0.00				1	0	0.00	2	0	0.00			
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	3	0	0.00				1	0	0.00	2	0	0.00			
01002	ARSENIC, TOTAL	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			
01007	BARIUM, TOTAL	Drinking Water	2000.	3	0	0.00				1	0	0.00	2	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	3	1	0.33				1	0	0.00	2	1	0.50			
		Drinking Water	5.	3	1	0.33				1	0	0.00	2	1	0.50			
01034	CHROMIUM, TOTAL	Drinking Water	100.	3	0	0.00				1	0	0.00	2	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	3	1	0.33				1	0	0.00	2	1	0.50			
		Drinking Water	1300.	3	0	0.00				1	0	0.00	2	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	3	0	0.00				1	0	0.00	2	0	0.00			
		Drinking Water	15.	2 &	0	0.00				1	0	0.00	1	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	1 &	0	0.00				1	0	0.00						
		Drinking Water	100.	3	0	0.00				1	0	0.00	2	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	3	0	0.00				1	0	0.00	2	0	0.00			
		Drinking Water	5000.	3	0	0.00				1	0	0.00	2	0	0.00			
01147	SELENIUM, TOTAL	Fresh Acute	20.	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			
39045	2,4,5-TP INCLUDES ACIDS & SALTS WATER SA	Drinking Water	50.	1	0	0.00							1	0	0.00			
39340	GAMMA-BHC(LINDANE), WHOLE WATER	Fresh Acute	2.	1	0	0.00							1	0	0.00			
		Drinking Water	0.2	1	0	0.00							1	0	0.00			
39390	ENDRIN IN WHOLE WATER SAMPLE	Fresh Acute	0.18	1	0	0.00							1	0	0.00			
		Drinking Water	2.	1	0	0.00							1	0	0.00			
39400	TOXAPHENE IN WHOLE WATER SAMPLE	Fresh Acute	0.73	1	0	0.00							1	0	0.00			
		Drinking Water	3.	1	0	0.00							1	0	0.00			

& - 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: WHIS0042

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------6/01-11/09---------- Obs	Exceed	Prop.	----------11/10-2/20---------- Obs	Exceed	Prop.	----------2/21-5/31---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE	Drinking Water	40.	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			
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	3	0	0.00				1	0	0.00	2	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	3	0	0.00				1	0	0.00	2	0	0.00			
		Drinking Water	2.	3	0	0.00				1	0	0.00	2	0	0.00			
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: WHIS0043

NPS Station ID: WHIS0043 LAT/LON: 40.612670/-122.537977 Agency: 11NPSWRD Date Created: 02/07/98
Location: BACKGROUND IN EASTERN PORTION OF LAKE FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /RESERV/TYPA/AMBNT STORET Station ID(s): WHIS_WQCB_13
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 Depth of Water: 0 Aquifer:
Major Basin: CALIFORNIA Elevation: 0 Water Body Id:
Minor Basin: SACRAMENTO RIVER ECO Region:
RF1 Index: 18020112 RF1 Mile Point: 0.000 Distance from RF1: 0.80 On/Off RF1:
RF3 Index: 18010211001600.95 RF3 Mile Point: 5.98 Distance from RF3: 0.04 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE IGO-CA SHASTA COUNTY 7.5 MINUTE (TOPOGRAPHIC) QUADRANGLE. THE SITE IS DESCRIBED BY THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD (WQCB) AS "BACKGROUND IN EASTERN PORTION OF LAKE." THE SITE IS LOCATED IN THE MIDDLE OF WHISKEYTOWN LAKE WEST OF THE PARK HEADQUARTERS INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA ARE FROM FOUR BACTERIOLOGICAL SURVEYS PERFORMED BY THE WQCB IN 1986; 1987; 1990 AND 1991. FOR MORE INFORMATION ON THE BACTERIOLOGICAL SURVEYS CONTACT THE WQCB; 415 KNOLLCREST DR. SUITE 100; REDDING CA 96002 (TEL 916-224-4845). FOR MORE INFORMATION ON THE PARK'S WHISKEYTOWN UNIT CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; P.O. BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX970-225-9965).

Parameter Inventory for Station: WHIS0043

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/15/86-07/07/87	3	4.	9.5	23.	1.5	138.25	11.758	**	**	**	**
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	07/15/86-07/07/87	3	0.602	0.713	1.362	0.176	0.361	0.601	**	**	**	**
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			5.168								
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/15/86-07/07/87	3 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/15/86-07/07/87	3 ##	0.176	0.176	0.176	0.176	0.	0.	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			1.5								

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

EPA Water Quality Criteria Analysis for Station: WHIS0043

				Total	Exceed	Prop.	----------6/01-11/09----------			----------11/10-2/20----------			----------2/21-5/31----------			--------------n/a--------------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	3	0	0.00	3	0	0.00									
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	Other-Hi Lim.	200.	3	0	0.00	3	0	0.00									

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

Station Inventory for Station: WHIS0044

NPS Station ID: WHIS0044 | LAT/LON: 40.612976/-122.573976 | Agency: 11NPSWRD | Date Created: 05/23/98
Location: BRANDY CREEK | FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): WHIS_NPS_06
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 | Depth of Water: 0 | Aquifer:
Major Basin: CALIFORNIA | Elevation: 0 | Water Body Id:
Minor Basin: SACRAMENTO RIVER | ECO Region:
RF1 Index: 18020112 | RF1 Mile Point: 0.000 | Distance from RF1: 0.80 | On/Off RF1:
RF3 Index: 18010211001600.95 | RF3 Mile Point: 5.98 | Distance from RF3: 0.04 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE IGO CA-SHASTA COUNTY 7.5' SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE WAS DESCRIBED BY THE NPS AS "BRANDY CREEK" AND WAS LOCATED UNDER THE BRANDY CREEK BRIDGE ON SOUTH SHORE ROAD INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA WERE COLLECTED FROM APPROXIMATELY 1973 UNTIL 1980 BY PARK PERSONNEL FOR FOURTEEN TOTAL LOCATIONS. THE DATA FOR EACH LOCATION WERE IN SEPARATELY BOUND FILES. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; PO BOX 188; WHISKEYTOWN CALIFORNIA 96095 TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NPS WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-01/23/80	92	10.	10.878	26.	2.	26.6	5.157	4.58	6.775	14.85	18.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-01/23/80	92	17.	17.898	35.	1.7	53.864	7.339	10.	12.	22.95	29.7
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/01/73-01/23/80	77	10.	31.325	344.	1.	3101.933	55.695	3.	5.	34.	81.2
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-01/23/80	92	2.5	6.099	83.	0.	111.9	10.578	0.	0.	9.75	15.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-01/23/80	83	52.	50.855	78.	5.	173.198	13.16	33.4	41.	60.	65.6
00300	OXYGEN, DISSOLVED MG/L	03/02/73-01/23/80	91	11.	11.153	17.5	8.2	2.603	1.614	9.3	9.8	12.4	13.
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-01/23/80	92	0.3	0.863	7.	0.	2.29	1.513	0.15	0.2	0.4	3.
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/01/74-08/15/76	30	2.25	2.425	8.2	0.4	1.966	1.402	1.102	1.72	2.663	4.
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	07/02/73-08/15/76	47	0.07	0.12	0.95	0.01	0.034	0.186	0.02	0.03	0.12	0.182
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/73-12/14/79	91	20.	18.516	45.	5.	58.386	7.641	10.	15.	20.	30.

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

EPA Water Quality Criteria Analysis for Station: WHIS0044

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	92	1	0.01	40	1	0.03	26	0	0.00	26	0	0.00			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	91	0	0.00	40	0	0.00	25	0	0.00	26	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	92	0	0.00	40	0	0.00	26	0	0.00	26	0	0.00			

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

Annual Analysis for 1973 - Station WHIS0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-01/23/80	22	10.3	10.764	18.3	4.4	17.432	4.175	6.28	6.7	14.025	17.47
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-01/23/80	22	16.95	16.636	30.	8.3	36.969	6.08	8.81	10.825	21.25	25.11
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/01/73-01/23/80	16	10.	36.438	239.	3.	3615.729	60.131	3.7	4.25	52.75	135.4
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-01/23/80	22	7.	7.682	20.	0.	35.561	5.963	0.	2.	11.25	16.4
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-01/23/80	17	45.	45.059	60.	31.	100.184	10.009	31.8	35.5	54.5	59.2
00300	OXYGEN, DISSOLVED MG/L	03/02/73-01/23/80	21	11.2	11.724	15.	8.8	2.827	1.681	9.52	10.5	13.	14.
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-01/23/80	22	2.	2.494	7.	0.	6.063	2.462	0.	0.08	5.	6.
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/73-12/14/79	22	15.	15.909	25.	10.	13.42	3.663	10.	15.	20.	20.

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

Annual Analysis for 1974 - Station WHIS0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-01/23/80	14	8.65	9.257	15.5	2.8	14.943	3.866	3.9	6.	12.5	15.25
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-01/23/80	14	17.	15.021	29.	1.7	59.096	7.687	3.35	9.	21.	26.5
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/01/73-01/23/80	13	17.	68.462	344.	4.	10736.603	103.618	4.4	6.5	81.5	298.4
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-01/23/80	14	1.5	4.429	15.	0.	33.495	5.787	0.	0.	10.25	15.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-01/23/80	13	40.	40.462	60.	5.	180.436	13.433	16.2	35.5	50.5	57.6
00300	OXYGEN, DISSOLVED MG/L	03/02/73-01/23/80	14	11.4	11.264	13.2	9.5	1.429	1.195	9.65	10.15	12.425	13.
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-01/23/80	14	0.275	0.393	1.7	0.1	0.156	0.395	0.15	0.2	0.425	1.1
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/73-12/14/79	14	10.	12.857	20.	5.	33.516	5.789	5.	10.	20.	20.

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

Annual Analysis for 1975 - Station WHIS0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-01/23/80	12	8.5	9.792	19.	5.	23.248	4.822	5.	5.125	14.25	18.1
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-01/23/80	12	12.	15.75	30.	7.	65.114	8.069	7.6	10.	22.75	29.7
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/01/73-01/23/80	11	13.	25.182	82.	5.	728.164	26.985	5.4	7.	47.	78.8
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-01/23/80	12	4.5	8.25	31.	0.	111.295	10.55	0.	0.25	9.75	30.1
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-01/23/80	9	52.	45.889	60.	12.	252.611	15.894	12.	34.5	57.	60.
00300	OXYGEN, DISSOLVED MG/L	03/02/73-01/23/80	12	11.65	11.175	12.7	8.8	2.258	1.503	8.95	9.6	12.575	12.67
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-01/23/80	12	0.3	0.3	0.4	0.2	0.006	0.077	0.2	0.213	0.388	0.4
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/73-12/14/79	12	20.	21.25	30.	10.	41.477	6.44	11.5	16.25	28.75	30.

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

Annual Analysis for 1976 - Station WHIS0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-01/23/80	12	10.5	11.75	23.	4.	36.023	6.002	4.	6.	16.75	21.5
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-01/23/80	12	18.	19.75	35.	12.	55.659	7.461	12.	14.25	24.25	34.1
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/01/73-01/23/80	11	8.	10.	33.	3.	79.8	8.933	3.	4.	15.	29.8
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-01/23/80	12 ##	0.05	9.008	83.	0.	558.019	23.622	0.	0.	5.	62.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-01/23/80	12	58.	55.417	65.	44.	46.083	6.788	44.	50.5	60.	63.8
00300	OXYGEN, DISSOLVED MG/L	03/02/73-01/23/80	12	10.6	10.792	13.1	8.5	2.459	1.568	8.74	9.5	12.575	13.07
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-01/23/80	12	0.275	0.278	0.7	0.1	0.025	0.158	0.115	0.158	0.3	0.61
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/73-12/14/79	12	20.	20.583	40.	10.	64.083	8.005	11.5	15.	23.75	37.

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

Annual Analysis for 1977 - Station WHIS0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-01/23/80	10	12.5	13.6	26.	4.	44.489	6.67	4.5	9.	18.75	25.5
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-01/23/80	10	16.5	18.9	31.	10.	61.211	7.824	10.2	12.	25.75	31.
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/01/73-01/23/80	9	3.	4.222	11.	1.	10.444	3.232	1.	2.	6.	11.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-01/23/80	10	1.5	3.6	18.	0.	33.378	5.777	0.	0.	5.25	17.1
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-01/23/80	10	65.5	65.2	75.	49.	55.067	7.421	49.9	63.25	70.75	74.8
00300	OXYGEN, DISSOLVED MG/L	03/02/73-01/23/80	10	10.3	10.3	12.6	8.2	1.902	1.379	8.26	9.175	11.375	12.5
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-01/23/80	10	0.3	0.29	0.4	0.2	0.003	0.057	0.2	0.275	0.3	0.39
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/73-12/14/79	10	27.5	29.	45.	15.	93.333	9.661	15.5	20.	36.25	44.5

** - 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 1978 - Station WHIS0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-01/23/80	10	11.	11.1	20.	2.	27.656	5.259	2.3	8.	14.75	19.7
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-01/23/80	10	19.5	20.1	32.	12.	45.211	6.724	12.	13.5	25.25	31.4
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/01/73-01/23/80	6	10.	34.333	107.	4.	1903.467	43.629	**	**	**	**
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-01/23/80	10 ##	0.	0.6	4.	0.	1.822	1.35	0.	0.	0.5	3.8
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-01/23/80	10	54.	52.3	75.	33.	157.789	12.561	33.7	40.	60.	73.5
00300	OXYGEN, DISSOLVED MG/L	03/02/73-01/23/80	10	10.7	11.33	17.5	9.1	6.065	2.463	9.13	9.55	12.2	16.97
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-01/23/80	10	0.35	0.33	0.6	0.2	0.018	0.134	0.2	0.2	0.4	0.58
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/73-12/14/79	10	15.5	17.8	30.	8.	38.622	6.215	8.6	14.75	21.25	29.5

** - 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 1979 - Station WHIS0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-01/23/80	11	11.1	11.009	21.1	3.3	41.437	6.437	3.42	4.	17.8	20.66
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-01/23/80	11	23.	21.7	34.4	12.	60.05	7.749	12.04	15.	25.6	34.18
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/01/73-01/23/80	10	20.	26.	77.	7.	444.444	21.082	7.	8.5	35.25	72.9
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-01/23/80	11	4.	6.455	28.	0.	68.873	8.299	0.	1.	12.	24.8
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-01/23/80	11	54.	55.091	78.	44.	90.091	9.492	44.4	50.	58.	75.4
00300	OXYGEN, DISSOLVED MG/L	03/02/73-01/23/80	11	10.6	10.873	13.	8.8	1.844	1.358	8.98	9.8	12.	12.92
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-01/23/80	11	0.3	0.482	1.1	0.2	0.114	0.337	0.22	0.3	0.9	1.08
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/73-12/14/79	11	20.	16.818	25.	10.	31.364	5.6	10.	10.	20.	24.

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

Annual Analysis for 1980 - Station WHIS0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-01/23/80	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-01/23/80	1	15.6	15.6	15.6	15.6	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/01/73-01/23/80	1	48.	48.	48.	48.	0.	0.	**	**	**	**
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-01/23/80	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-01/23/80	1	70.	70.	70.	70.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	03/02/73-01/23/80	1	11.5	11.5	11.5	11.5	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-01/23/80	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**

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

Seasonal Analysis for Season #1: 6/01 to 11/09 - Station WHIS0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-01/23/80	40	15.	15.195	26.	8.	15.15	3.892	10.64	12.	17.8	20.9
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-01/23/80	40	22.5	23.025	35.	10.	39.516	6.286	14.46	19.	28.275	31.9
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/01/73-01/23/80	37	7.	9.27	77.	1.	153.98	12.409	2.8	4.	10.	17.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-01/23/80	40	3.5	7.228	83.	0.	189.834	13.778	0.	0.	10.	14.8
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-01/23/80	37	57.	55.811	78.	5.	144.38	12.016	45.	50.	60.5	67.4
00300	OXYGEN, DISSOLVED MG/L	03/02/73-01/23/80	40	9.8	9.923	13.	8.2	0.844	0.919	8.8	9.325	10.55	11.
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-01/23/80	40	0.375	1.374	7.	0.1	4.343	2.084	0.2	0.213	0.8	5.
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/73-12/14/79	40	20.	19.95	45.	8.	62.715	7.919	10.	15.	20.	30.

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

Seasonal Analysis for Season #2: 11/10 to 2/20 - Station WHIS0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-01/23/80	26	6.	6.054	10.	2.	4.687	2.165	3.15	4.	7.8	9.12
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-01/23/80	26	10.3	10.996	18.	1.7	11.891	3.448	7.31	9.	12.65	16.08
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/01/73-01/23/80	20	15.	55.7	344.	3.	7690.011	87.693	3.1	5.75	77.	224.2
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-01/23/80	26	4.	6.846	31.	0.	75.735	8.703	0.	0.	10.25	21.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-01/23/80	25	52.	49.88	75.	32.	138.943	11.787	33.6	38.5	58.	67.
00300	OXYGEN, DISSOLVED MG/L	03/02/73-01/23/80	25	12.2	12.056	13.2	10.5	0.556	0.746	10.84	11.5	12.6	13.04
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-01/23/80	26	0.3	0.577	3.	0.	0.484	0.695	0.135	0.2	0.7	1.79
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/73-12/14/79	25	17.	16.48	30.	5.	32.26	5.68	10.	10.	20.	22.

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

Seasonal Analysis for Season #3: 2/21 to 5/31 - Station WHIS0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-01/23/80	26	9.	9.062	18.	4.	11.049	3.324	4.82	6.7	10.7	13.81
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-01/23/80	26	17.	16.912	32.	7.	29.917	5.47	10.77	12.6	18.925	25.3
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/01/73-01/23/80	20	34.	47.75	230.	4.	2569.355	50.689	8.	15.5	63.25	104.4
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-01/23/80	26	1.	3.615	15.	0.	26.406	5.139	0.	0.	5.	15.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-01/23/80	21	40.	43.286	70.	12.	176.714	13.293	31.	34.	53.	63.6
00300	OXYGEN, DISSOLVED MG/L	03/02/73-01/23/80	26	11.95	12.177	17.5	9.5	3.194	1.787	9.77	10.775	13.	14.3
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-01/23/80	26	0.3	0.363	3.	0.	0.314	0.561	0.021	0.195	0.3	0.63
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/73-12/14/79	26	15.	18.269	40.	5.	73.885	8.596	10.	10.	25.	31.5

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

Station Inventory for Station: WHIS0045

NPS Station ID: WHIS0045 LAT/LON: 40.614226/-122.573226 Agency: 11NPSWRD Date Created: 02/13/99
Location: BRANDY CREEK NW 1/4 SW 1/4 SECT. 20 T32N R6W FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): WHIS_USGS_BC1
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 Depth of Water: 0 Aquifer:
Major Basin: CALIFORNIA Elevation: 0 Water Body Id:
Minor Basin: SACRAMENTO RIVER ECO Region:
RF1 Index: 18020112 RF1 Mile Point: 0.000 Distance from RF1: 0.80 On/Off RF1:
RF3 Index: 18010211001600.95 RF3 Mile Point: 5.98 Distance from RF3: 0.04 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE IGO CALIFORNIA-SHASTA COUNTY 7.5' SERIES (TOPOGRAPHIC) QUADRANGLE INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE SITE IS DESCRIBED BY THE USGS AS "BRANDY CREEK; NW 1/4 SW 1/4; SECT. 20; T32N; R6W." THE EXACT LOCATION COULD NOT BE IDENTIFIED. THE LAT/LONG VALUES USED WERE ESTIMATED. DATA WERE COLLECTED BY THE USGS AND LISTED IN A REPORT TITLED "WATER-RESOURCES RECONNAISSANCE OF WHISKEYTOWN NATIONAL RECREATION AREA; CALIFORNIA" DATED 1969. FOR MORE INFORMATION ON THE WHISKEYTOWN UNIT OF THE PARK CONTACT THE CHIEF OF RESOURCES AT THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; P.O. BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0045

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/15/62-11/15/62	1	55.	55.	55.	55.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	11/15/62-11/15/62	1	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	11/15/62-11/15/62	1	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/15/62-11/15/62	1	0.079	0.079	0.079	0.079	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	11/15/62-11/15/62	1	29.	29.	29.	29.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	11/15/62-11/15/62	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/15/62-11/15/62	1	22.	22.	22.	22.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	11/15/62-11/15/62	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/15/62-11/15/62	1	6.4	6.4	6.4	6.4	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/15/62-11/15/62	1	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	11/15/62-11/15/62	1	3.8	3.8	3.8	3.8	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/15/62-11/15/62	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	11/15/62-11/15/62	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	11/15/62-11/15/62	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/15/62-11/15/62	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	11/15/62-11/15/62	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	11/15/62-11/15/62	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	11/15/62-11/15/62	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	11/15/62-11/15/62	1	52.	52.	52.	52.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/15/62-11/15/62	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0045

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00				1	0	0.00						
		Other-Lo Lim.	6.5	1	0	0.00				1	0	0.00						
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						
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: WHIS0046

NPS Station ID: WHIS0046 | LAT/LON: 40.614281/-122.561531 | Agency: 11NPSWRD | Date Created: 02/13/99
Location: UNNAMED GULCH NE 1/4 SE 1/4 SECT. 20 T32N R6W | FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): WHIS_USGS_UNKG
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 | Depth of Water: 0 | Aquifer:
Major Basin: CALIFORNIA | Elevation: 0 | Water Body Id:
Minor Basin: SACRAMENTO RIVER | ECO Region:
RF1 Index: 18020112 | RF1 Mile Point: 0.000 | Distance from RF1: 0.80 | On/Off RF1:
RF3 Index: 18010211001600.95 | RF3 Mile Point: 5.98 | Distance from RF3: 0.04 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE IGO CALIFORNIA-SHASTA COUNTY 7.5' SERIES (TOPOGRAPHIC) QUADRANGLE INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE SITE IS DESCRIBED BY THE USGS AS "UNNAMED GULCH; NE 1/4; SE 1/4; SECT. 20; T32N; R6W." A GULCH COULD NOT BE IDENTIFIED IN THE VICINITY OF THE LOCATION DESCRIPTION. THE LAT/LONG VALUES USED WERE ESTIMATED. DATA WERE COLLECTED BY THE USGS AND LISTED IN A REPORT TITLED "WATER-RESOURCES RECONNAISSANCE OF WHISKEYTOWN NATIONAL RECREATION AREA; CALIFORNIA" DATED 1969. FOR MORE INFORMATION ON THE WHISKEYTOWN UNIT OF THE PARK CONTACT THE CHIEF OF RESOURCES AT THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; P.O. BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0046

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/24/68-05/24/68	1	186.	186.	186.	186.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	05/24/68-05/24/68	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/24/68-05/24/68	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/24/68-05/24/68	1	0.063	0.063	0.063	0.063	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	05/24/68-05/24/68	1	106.	106.	106.	106.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	05/24/68-05/24/68	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/24/68-05/24/68	1	88.	88.	88.	88.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	05/24/68-05/24/68	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/24/68-05/24/68	1	21.	21.	21.	21.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/24/68-05/24/68	1	8.5	8.5	8.5	8.5	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/24/68-05/24/68	1	4.8	4.8	4.8	4.8	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/24/68-05/24/68	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	05/24/68-05/24/68	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	05/24/68-05/24/68	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/24/68-05/24/68	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/24/68-05/24/68	1	28.	28.	28.	28.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	05/24/68-05/24/68	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	05/24/68-05/24/68	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	05/24/68-05/24/68	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	05/24/68-05/24/68	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/24/68-05/24/68	1	124.	124.	124.	124.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	05/24/68-05/24/68	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0046

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
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			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	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			
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			
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: WHIS0047

NPS Station ID: WHIS0047
LAT/LON: 40.614448/-122.745281
Agency: 112WRD
Date Created: 06/13/87
Location: GRASS VALLEY C NR FRENCH GULCH CA
FIPS State/County: 06105 CALIFORNIA/TRINITY
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 11525550
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 18010211
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 18010211
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 18010211006107.26
RF3 Mile Point: 8.13
Distance from RF3: 0.27
On/Off RF3:
Description:

Parameter Inventory for Station: WHIS0047

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	01/30/86-04/06/89	7	25.	24.143	25.	22.	2.143	1.464	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/04/84-04/06/89	100	6.	6.47	16.5	1.5	9.151	3.025	4.	4.625	6.875	10.95
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/04/84-04/06/89	100	24.	48.54	291.	5.	4874.817	69.82	6.	11.	54.5	84.
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	01/30/86-04/06/89	14	53.5	45.929	68.	0.	490.379	22.145	0.	38.25	62.25	68.
70332	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .125MM	01/30/86-03/09/89	6	53.5	58.667	73.	51.	93.867	9.688	**	**	**	**
70333	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .250MM	01/30/86-03/09/89	6	76.5	76.5	90.	59.	135.5	11.64	**	**	**	**
70334	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM	01/30/86-03/09/89	6	96.5	93.5	100.	79.	66.7	8.167	**	**	**	**
70335	SUSPENDED SED SIEVE DIAMETER,% FINER THAN 1.00MM	03/05/87-03/09/89	4	98.5	98.	100.	95.	6.	2.449	**	**	**	**
70336	SUSPENDED SED SIEVE DIAMETER,% FINER THAN 2.00MM	03/05/87-03/09/89	2	100.	100.	100.	100.	0.	0.	**	**	**	**
70339	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM	07/09/85-07/09/85	1	9.	9.	9.	9.	0.	0.	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/04/84-04/06/89	56	3.	23.482	530.	0.	8027.927	89.599	1.	2.	7.	20.4
80164	BED MATERIAL SIEVE DIAMETER,% FINER THAN .062MM	04/29/85-03/05/87	8	1.	1.375	3.	0.	0.839	0.916	**	**	**	**
80165	BED MATERIAL SIEVE DIAMETER,% FINER THAN .125MM	12/07/84-03/05/87	16	1.5	2.188	6.	0.	2.963	1.721	0.7	1.	3.75	5.3
80166	BED MATERIAL SIEVE DIAMETER,% FINER THAN .250MM	12/07/84-05/05/88	33	3.	4.	13.	0.	10.188	3.192	1.	2.	6.	9.6
80167	BED MATERIAL SIEVE DIAMETER,% FINER THAN .500MM	12/07/84-05/05/88	37	12.	12.378	28.	2.	54.742	7.399	2.8	5.	19.	22.
80168	BED MATERIAL SIEVE DIAMETER,% FINER THAN 1.00MM	12/07/84-05/05/88	37	32.	32.892	72.	5.	328.432	18.123	10.6	15.5	44.	64.
80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	12/07/84-05/05/88	37	65.	60.486	97.	15.	518.59	22.773	28.	40.	78.5	91.2
80170	BED MATERIAL SIEVE DIAMETER,% FINER THAN 4.00MM	12/07/84-05/05/88	37	92.	86.514	100.	27.	267.368	16.351	66.6	84.5	97.	100.
80171	BED MATERIAL SIEVE DIAMETER,% FINER THAN 8.00MM	12/07/84-05/05/88	33	100.	94.788	100.	32.	231.172	15.204	84.2	97.5	100.	100.
80172	BED MATERIAL SIEVE DIAMETER,% FINER THAN 16.0MM	01/18/86-12/10/87	11	100.	88.091	100.	36.	570.491	23.885	37.8	88.	100.	100.
80173	BED MATERIAL SIEVE DIAMETER,% FINER THAN 32.0MM	03/05/87-12/10/87	3	82.	77.333	100.	50.	641.333	25.325	**	**	**	**
80174	BED MATERIAL SIEVE DIAMETER,% FINER THAN 64.0MM	03/05/87-03/05/87	2	100.	100.	100.	100.	0.	0.	**	**	**	**
80225	BEDLOAD SEDIMENT DISCHARGE (TONS/DAY)	01/30/86-04/06/89	7	9.8	14.057	31.	1.8	121.046	11.002	**	**	**	**
80228	BEDLOAD SEDIMENT SIEVE DIAM, % FINER THAN .250MM	01/30/86-04/06/89	6	1.	1.5	3.	1.	0.7	0.837	**	**	**	**
80229	BEDLOAD SEDIMENT SIEVE DIAM, % FINER THAN .500MM	01/30/86-04/06/89	7	8.	8.857	20.	4.	27.81	5.273	**	**	**	**
80230	BEDLOAD SEDIMENT SIEVE DIAM, % FINER THAN 1.00MM	01/30/86-04/06/89	7	27.	32.	46.	17.	120.	10.954	**	**	**	**
80231	BEDLOAD SEDIMENT SIEVE DIAM, % FINER THAN 2.00MM	01/30/86-04/06/89	7	60.	65.429	87.	53.	150.619	12.273	**	**	**	**
80232	BEDLOAD SEDIMENT SIEVE DIAM, % FINER THAN 4.00MM	01/30/86-04/06/89	7	94.	93.286	99.	85.	20.238	4.499	**	**	**	**
80233	BEDLOAD SEDIMENT SIEVE DIAM, % FINER THAN 8.00MM	01/30/86-04/06/89	7	100.	99.429	100.	96.	2.286	1.512	**	**	**	**
80234	BEDLOAD SEDIMENT SIEVE DIAM, % FINER THAN 16.0MM	02/11/86-02/11/86	1	100.	100.	100.	100.	0.	0.	**	**	**	**

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

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

Annual Analysis for 1984 - Station WHIS0047

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/04/84-04/06/89	6	4.	5.333	9.5	4.	5.167	2.273	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/04/84-04/06/89	6	26.	20.333	26.	7.	78.667	8.869	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/04/84-04/06/89	3	1.	1.667	3.	1.	1.333	1.155	**	**	**	**

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

Annual Analysis for 1985 - Station WHIS0047

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/04/84-04/06/89	17	7.5	7.765	16.	1.5	14.629	3.825	3.5	5.5	9.75	14.8
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/04/84-04/06/89	17	13.	12.588	21.	5.	48.882	6.992	5.	6.	20.5	21.
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/04/84-04/06/89	11	3.	3.727	8.	0.	7.418	2.724	0.4	2.	7.	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 1986 - Station WHIS0047

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/04/84-04/06/89	28	6.	6.464	15.	4.	7.184	2.68	4.5	5.	6.375	11.75
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/04/84-04/06/89	28	43.	42.286	142.	6.	905.989	30.1	6.9	10.	64.	72.
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/04/84-04/06/89	13	5.	10.538	63.	1.	296.603	17.222	1.	1.5	11.	48.2

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

Annual Analysis for 1987 - Station WHIS0047

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/04/84-04/06/89	29	5.5	5.552	13.	2.	6.256	2.501	3.	4.	6.5	10.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/04/84-04/06/89	29	24.	90.517	291.	5.	11985.33	109.478	6.	11.	111.	291.
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/04/84-04/06/89	14	4.	39.214	426.	0.	12648.797	112.467	0.5	2.	15.	244.

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

Annual Analysis for 1988 - Station WHIS0047

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/04/84-04/06/89	16	5.75	7.25	16.5	1.5	13.733	3.706	2.9	5.	9.5	13.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/04/84-04/06/89	16	20.5	23.563	58.	6.	258.263	16.071	6.	11.25	31.	57.3
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/04/84-04/06/89	12	3.5	4.083	12.	1.	9.356	3.059	1.3	2.	5.5	10.5

** - 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 1989 - Station WHIS0047

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/04/84-04/06/89	4	6.25	6.25	6.5	6.	0.083	0.289	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/04/84-04/06/89	4	49.	83.	215.	19.	7944.	89.129	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/04/84-04/06/89	3	2.	178.	530.	2.	92928.	304.841	**	**	**	**

** - Less than 9 observations ## - Computed 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: WHIS0048

NPS Station ID: WHIS0048 | LAT/LON: 40.616115/-122.572616 | Agency: 11NPSWRD | Date Created: 02/07/98
Location: BRANDY CREEK; APPROX. 50 FEET ABOVE LAKE | FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): WHIS_WQCB_19
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 | Depth of Water: 0 | Aquifer:
Major Basin: CALIFORNIA | Elevation: 0 | Water Body Id:
Minor Basin: SACRAMENTO RIVER | ECO Region:
RF1 Index: 18020112 | RF1 Mile Point: 0.000 | Distance from RF1: 0.80 | On/Off RF1:
RF3 Index: 18010211001600.95 | RF3 Mile Point: 5.98 | Distance from RF3: 0.04 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE IGO-CA SHASTA COUNTY 7.5 MINUTE (TOPOGRAPHIC) QUADRANGLE. THE SITE IS DESCRIBED BY THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD (WQCB) AS "BRANDY CREEK; APPROX. 50 FEET ABOVE LAKE." THE SITE IS LOCATED AT BRANDY CREEK INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA ARE FROM FOUR BACTERIOLOGICAL SURVEYS PERFORMED BY THE WQCB IN 1986; 1987; 1990 AND 1991. FOR MORE INFORMATION ON THE BACTERIOLOGICAL SURVEYS CONTACT THE WQCB; 415 KNOLLCREST DR. SUITE 100; REDDING CA 9600 (TEL 916-224-4845). FOR MORE INFORMATION ON THE WHISKEYTOWN UNIT OF THE PARK CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; P.O. BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0048

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/31/90-07/17/91	4	180.	375.75	1100.	43.	237898.917	487.749	**	**	**	**
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	07/31/90-07/17/91	4	2.249	2.293	3.041	1.633	0.337	0.58	**	**	**	**
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			196.468								
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/31/90-07/17/91	4 ##	12.25	44.	150.	1.5	5096.5	71.39	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/31/90-07/17/91	4 ##	0.769	0.973	2.176	0.176	0.956	0.978	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			9.386								

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

EPA Water Quality Criteria Analysis for Station: WHIS0048

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	4	1	0.25	4	1	0.25									
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	Other-Hi Lim.	200.	4	0	0.00	4	0	0.00									

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

Station Inventory for Station: WHIS0049

NPS Station ID: WHIS0049 | LAT/LON: 40.616670/-122.528615 | Agency: 113BUREC | Date Created: 03/12/94
Location: UPSTREAM OF SPRING CRK PWR INTAK TEMP CNTRL CRTN | FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/LAKE | STORET Station ID(s): IMSPRCRU /SH46
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 | Depth of Water: 0 | Aquifer:
Major Basin: CALIFORNIA | Elevation: 0 | Water Body Id:
Minor Basin: SACRAMENTO RIVER | ECO Region:
RF1 Index: 18020112 | RF1 Mile Point: 0.000 | Distance from RF1: 0.80 | On/Off RF1:
RF3 Index: 18010211001600.95 | RF3 Mile Point: 5.98 | Distance from RF3: 0.04 | On/Off RF3:
Description:
LOCATION: WHISKEYTOWN LAKE, 500 FEET UPSTREAM OF SPRING CREEK POWER INTAKE TEMPERATURE CONTROL CURTAIN IN THE DEEP CHANNEL. THE INSTRUMENT (DATAMENTOR) IS SECURED INSIDE A LOCKED AND ANCHORED FLOATING CONTAINER HAVING TEMP. PROBES PLACED AT PREDETERMINED ELEVATIONS (PROFILE) LOGGING HOURLY TEMPERATURES.
AVERAGE SURFACE ELEVATION - 1200 FEET ABOVE M.S.L.

Parameter Inventory for Station: WHIS0049

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: WHIS0050

NPS Station ID: WHIS0050 LAT/LON: 40.616698/-122.523976 Agency: 11NPSWRD Date Created: 05/23/98
Location: APPROX. 50 M DOWNSTREAM OF SPRING CREEK CURTAINS FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /RESERV/TYPA/AMBNT STORET Station ID(s): WHIS_UCLIM_6
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 Depth of Water: 0 Aquifer:
Major Basin: CALIFORNIA Elevation: 0 Water Body Id:
Minor Basin: SACRAMENTO RIVER ECO Region:
RF1 Index: 18020112 RF1 Mile Point: 0.000 Distance from RF1: 0.80 On/Off RF1:
RF3 Index: 18010211001600.95 RF3 Mile Point: 5.98 Distance from RF3: 0.04 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE IGO CA-SHASTA CO. 7.5' SERIES (TOPO.) QUADRANGLE. THE SITE IS LOCATED INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT) ON WHISKEYTOWN LAKE APPROX. 50 M DOWNSTREAM OF THE SPRING CREEK OUTTAKE TEMPERATURE CURTAINS. THE DATA ARE FROM THE 1994 U.C. DAVIS REPORT TO THE BUREAU OF RECLAMATION TITLED "A LIMNOLOGICAL INVESTIGATION OF WHISKEYTOWN RESERVOIR: POTENTIAL IMPACTS OF TEMPERATURE CONTROL CURTAINS." CORRECTED DISSOLVED OXYGEN VALUES WERE UPLOADED TO STORET WITH AN ARBITRARY TIME OF 1200. "J" REMARK CODES WERE USED TO FLAG D.O. VALUES TAKEN WHEN THE PROBE HAD BEEN CALIBRATED IMPROPERLY OR WHEN THE PROBE WAS FUNCTIONING IMPROPERLY. FOR MORE INFO. ABOUT THE PARK CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN- SHASTA-TRINITY NATIONAL RECREATION AREA: PO BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516).

Parameter Inventory for Station: WHIS0050

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/22/93-08/16/94	241	14.5	15.87	24.3	10.1	20.337	4.51	10.5	11.9	20.4	22.7
00078	TRANSPARENCY, SECCHI DISC (METERS)	07/06/93-08/16/94	10	13.25	13.84	17.3	10.9	4.912	2.216	11.	12.2	16.4	17.27
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/22/93-08/16/94	241	68.	68.39	90.	56.	51.497	7.176	60.	64.	72.	76.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/22/93-08/16/94	242	7.9	7.96	9.6	6.2	0.49	0.7	7.	7.5	8.3	9.1
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	07/22/93-08/16/94	242	84.	84.545	102.	61.	97.826	9.891	72.	77.	94.	99.
00406	PH, FIELD, STANDARD UNITS SU	07/22/93-08/16/94	241	7.63	7.706	8.39	6.8	0.143	0.378	7.29	7.49	8.095	8.22
00406	CONVERTED PH, FIELD, STANDARD UNITS	07/22/93-08/16/94	241	7.63	7.546	8.39	6.8	0.169	0.411	7.29	7.49	8.095	8.22
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/22/93-08/16/94	241	0.023	0.028	0.158	0.004	0.001	0.028	0.006	0.008	0.032	0.051
46480	OXIDATION REDUCTION POTENTIAL, FIELD MV	06/01/94-08/16/94	80	310.	296.9	340.	207.	1309.433	36.186	237.2	261.25	323.5	334.9

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

EPA Water Quality Criteria Analysis for Station: WHIS0050

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	242	0	0.00	242	0	0.00									
00406	PH, FIELD	Fresh Chronic	9.	241	0	0.00	241	0	0.00									
		Other-Lo Lim.	6.5	241	0	0.00	241	0	0.00									

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

Station Inventory for Station: WHIS0051

NPS Station ID: WHIS0051 | LAT/LON: 40.616948/-122.526392 | Agency: 113BUREC | Date Created: 03/12/94
Location: DOWNSTRM OF SPRING CRK PWR INTAK TEMP CNTRL CRTN | FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/LAKE | STORET Station ID(s): IMSPRCRD /SH47
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 | Depth of Water: 0 | Aquifer:
Major Basin: CALIFORNIA | Elevation: 0 | Water Body Id:
Minor Basin: SACRAMENTO RIVER | ECO Region:
RF1 Index: 18020112 | RF1 Mile Point: 0.000 | Distance from RF1: 0.80 | On/Off RF1:
RF3 Index: 18010211001600.95 | RF3 Mile Point: 5.98 | Distance from RF3: 0.04 | On/Off RF3:
Description:
LOCATION: WHISKEYTOWN LAKE, 500 FEET DOWNSTREAM OF SPRING CREEK POWER INTAKE TEMPERATURE CONTROL CURTAIN IN THE INTAKE CHANNEL. THE INSTRUMENT (DATAMENTOR) IS SECURED INSIDE A LOCKED AND ANCHORED FLOATING CONTAINER HAVING TEMP. PROBES PLACED AT PREDETERMINED ELEVATIONS (PROFILE) LOGGING HOURLY TEMPERATURES.
AVERAGE SURFACE ELEVATION - 1200 FEET ABOVE M.S.L.

Parameter Inventory for Station: WHIS0051

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: WHIS0052

NPS Station ID: WHIS0052 LAT/LON: 40.617226/-122.526392 Agency: 113BUREC Date Created: 03/10/90
Location: SPRING CREEK POWER CONDUIT INTAKE, WHISKEYTOWN L FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/INTAKE/AMBNT/STREAM STORET Station ID(s): IMSPRCR /WHTNTEMPC /SH28
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 Depth of Water: 0 Aquifer:
Major Basin: CALIFORNIA Elevation: 0 Water Body Id:
Minor Basin: SACRAMENTO RIVER ECO Region:
RF1 Index: 18020112 RF1 Mile Point: 0.000 Distance from RF1: 1.00 On/Off RF1:
RF3 Index: 18020112000300.00 RF3 Mile Point: 0.00 Distance from RF3: 0.08 On/Off RF3:
Description:
THE SITE IS OVER THE INTAKE STRUCTURE IN THE LAKE AT A BEARING OF S 73 W FOR 750 FEET FROM THE CEMENT TOWER HOUSING THE GATE STRUCTURE.
THE CEMENT TOWER IS 100 FEET SOUTH OF STATE ROUTE 299, THREE-TENTHS OF A MILE WEST OF THE TURN-OFF TO CLAIR A. HILL WHISKEYTOWN DAM.

Parameter Inventory for Station: WHIS0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/21/88-09/13/90	105	12.6	13.869	26.	7.4	21.894	4.679	8.9	11.2	15.35	22.38
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	10/11/90-10/18/91	56	49.95	50.848	69.5	44.1	38.094	6.172	44.59	45.725	54.475	61.39
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/21/88-07/27/90	15	25.2	26.42	40.	14.	75.512	8.69	14.3	19.3	31.4	40.
00062	ELEVATION, RESERVOIR SURFACE WATER IN FEET	07/21/88-10/18/91	161	1209.	1202.876	1210.	1191.	47.972	6.926	1192.	1198.	1209.	1209.
72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	07/21/88-10/18/91	161	1150.	1144.012	1210.	1075.	2006.425	44.793	1075.	1100.	1175.	1200.

** - Less than 9 observations ## - 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 1988 - Station WHIS0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00062	ELEVATION, RESERVOIR SURFACE WATER IN FEET	07/21/88-10/18/91	27	1209.	1209.	1209.	1209.	0.	0.	1209.	1209.	1209.	1209.
72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	07/21/88-10/18/91	27	1150.	1156.	1209.	1085.	1967.385	44.355	1085.	1125.	1200.	1209.

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00062	ELEVATION, RESERVOIR SURFACE WATER IN FEET	07/21/88-10/18/91	33	1209.	1205.182	1209.	1198.	26.403	5.138	1198.	1199.	1209.	1209.
72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	07/21/88-10/18/91	33	1150.	1143.909	1209.	1075.	2134.335	46.199	1075.	1100.	1186.5	1205.4

** - 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 1990 - Station WHIS0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00062	ELEVATION, RESERVOIR SURFACE WATER IN FEET	07/21/88-10/18/91	64	1209.	1203.281	1210.	1191.	49.348	7.025	1192.	1198.	1209.	1210.
72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	07/21/88-10/18/91	64	1150.	1142.219	1210.	1075.	2063.697	45.428	1075.	1100.	1175.	1200.5

** - 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 1991 - Station WHIS0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00062	ELEVATION, RESERVOIR SURFACE WATER IN FEET	07/21/88-10/18/91	37	1198.	1195.649	1201.	1191.	16.401	4.05	1191.	1192.	1199.	1201.
72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	07/21/88-10/18/91	37	1150.	1138.459	1201.	1075.	1842.7	42.927	1075.	1100.	1175.	1198.2

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

Station Inventory for Station: WHIS0053

NPS Station ID: WHIS0053 | LAT/LON: 40.617531/-122.523531 | Agency: 11NPSWRD | Date Created: 02/07/98
Location: GAGING STATION | FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /RESERV/TYPA/AMBNT | STORET Station ID(s): WHIS_WQCB_06
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 | Depth of Water: 0 | Aquifer:
Major Basin: CALIFORNIA | Elevation: 0 | Water Body Id:
Minor Basin: SACRAMENTO RIVER | ECO Region:
RF1 Index: 18020112 | RF1 Mile Point: 0.000 | Distance from RF1: 0.80 | On/Off RF1:
RF3 Index: 18010211001600.95 | RF3 Mile Point: 5.98 | Distance from RF3: 0.04 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE IGO-CA SHASTA COUNTY 7.5 MINUTE (TOPOGRAPHIC) QUADRANGLE. THE SITE IS DESCRIBED BY THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD (WQCB) AS "GAGING STATION." THE SITE IS LOCATED AT THE EAST GAGING STATION OF WHISKEYTOWN LAKE INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA ARE FROM FOUR BACTERIOLOGICAL SURVEYS PERFORMED BY THE WQCB IN 1986; 1987; 1990 AND 1991. FOR MORE INFORMATION ON THE BACTERIOLOGICAL SURVEY CONTACT THE WQCB; 415 KNOLLCREST DR. SUITE 100; REDDING CA 96002 (TEL 916-224-4845). FOR MORE INFORMATION ON THE WHISKEYTOWN UNIT OF THE PARK CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; P.O. BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX970-225-9965).

Parameter Inventory for Station: WHIS0053

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/15/86-07/17/91	7	23.	119.286	460.	7.	29396.238	171.453	**	**	**	**
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	07/15/86-07/17/91	7	1.362	1.619	2.663	0.845	0.511	0.715	**	**	**	**
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			41.573								
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/15/86-07/17/91	7	3.	16.214	93.	1.5	1153.571	33.964	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/15/86-07/17/91	7	0.477	0.647	1.968	0.176	0.423	0.65	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			4.438								

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

EPA Water Quality Criteria Analysis for Station: WHIS0053

				Total	Exceed	Prop.	----------6/01-11/09----------			----------11/10-2/20----------			----------2/21-5/31----------			--------------n/a--------------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	7	0	0.00	7	0	0.00									
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	Other-Hi Lim.	200.	7	0	0.00	7	0	0.00									

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

Station Inventory for Station: WHIS0054

NPS Station ID: WHIS0054 LAT/LON: 40.617531/-122.523531 Agency: 11NPSWRD Date Created: 05/23/98
Location: WHISKEYTOWN LAKE INTAKE (SPRING CREEK TUNNEL) FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /RESERV/TYPA/AMBNT STORET Station ID(s): WHIS_CDHS_7
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 Depth of Water: 0 Aquifer:
Major Basin: CALIFORNIA Elevation: 0 Water Body Id:
Minor Basin: SACRAMENTO RIVER ECO Region:
RF1 Index: 18020112 RF1 Mile Point: 0.000 Distance from RF1: 0.80 On/Off RF1:
RF3 Index: 18010211001600.95 RF3 Mile Point: 5.98 Distance from RF3: 0.04 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE IGO CA-SHASTA COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS DESCRIBED BY THE CALIFORNIA DEPARTMENT OF HEALTH SERVICES (CDHS) AS "WHISKEYTOWN LAKE INTAKE-RAW" AND IS LOCATED AT THE INTAKE OF THE SPRING CREEK TUNNEL TO WHISKEYTOWN LAKE INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE CDHS DATA WERE OBTAINED FROM THE NATIONAL PARK SERVICE (NPS) AND THREE COMMUNITY SERVICE DISTRICTS. FOR MORE INFORMATION ON THE DATA CONTACT THE CDHS; DRINKING WATER PROGRAM; PO BOX 942732 MS 92; SACRAMENTO CA 94234 (TEL 916-323-4670). FOR MORE INFORMATION ON THE WHISKEYTOWN UNIT OF THE PARK CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; PO BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NPS WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0054

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/10/92-07/10/92	1	96.	96.	96.	96.	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	07/10/92-07/23/96	2	7.5	7.5	7.7	7.3	0.08	0.283	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	07/10/92-07/23/96	2	7.455	7.455	7.7	7.3	0.084	0.29	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/10/92-07/23/96	2	0.035	0.035	0.05	0.02	0.	0.021	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/10/92-07/23/96	2	40.5	40.5	44.	37.	24.5	4.95	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	07/10/92-07/10/92	1	54.	54.	54.	54.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	07/10/92-07/10/92	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/10/92-07/10/92	1	45.	45.	45.	45.	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	07/10/92-07/23/96	2	5.65	5.65	6.3	5.	0.845	0.919	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	07/10/92-07/10/92	1	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	07/10/92-07/10/92	1	2.99	2.99	2.99	2.99	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	07/10/92-07/10/92	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	07/10/92-07/10/92	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	07/10/92-07/10/92	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	07/10/92-07/10/92	1 ##	0.35	0.35	0.35	0.35	0.	0.	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	07/10/92-07/10/92	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	07/23/96-07/23/96	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	07/10/92-07/10/92	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	07/10/92-07/10/92	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**

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

Parameter Inventory for Station: WHIS0054

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01042	COPPER, TOTAL (UG/L AS CU)	07/10/92-07/10/92	1	11.	11.	11.	11.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	07/10/92-07/10/92	1	44.	44.	44.	44.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	07/10/92-07/10/92	1 ##	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	07/10/92-07/10/92	1	7.	7.	7.	7.	0.	0.	**	**	**	**
01059	THALLIUM, TOTAL (UG/L AS TL)	07/23/96-07/23/96	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	07/23/96-07/23/96	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	07/10/92-07/10/92	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	07/10/92-07/10/92	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01097	ANTIMONY, TOTAL (UG/L AS SB)	07/23/96-07/23/96	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	07/10/92-07/10/92	1	44.	44.	44.	44.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	07/10/92-07/10/92	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
32101	BROMODICHLOROMETHANE,WHOLE WATER,UG/L	07/10/92-07/10/92	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
32102	CARBON TETRACHLORIDE,WHOLE WATER,UG/L	07/10/92-07/10/92	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
32104	BROMOFORM,WHOLE WATER,UG/L	07/10/92-07/10/92	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
32105	DIBROMOCHLOROMETHANE,WHOLE WATER,UG/L	07/10/92-07/10/92	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
32106	CHLOROFORM,WHOLE WATER,UG/L	07/10/92-07/10/92	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34010	TOLUENE IN WTR SMPLE GC-MS, HEXADECONE EXTR.(UG/L)	07/10/92-07/10/92	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34030	BENZENE IN WTR SMPLE GC-MS, HEXADECONE EXTR.(UG/L)	07/10/92-07/10/92	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34301	CHLOROBENZENE TOTWUG/L	07/10/92-07/10/92	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34311	CHLOROETHANE TOTWUG/L	07/10/92-07/10/92	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34371	ETHYLBENZENE TOTWUG/L	07/10/92-07/10/92	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34391	HEXACHLOROBUTADIENE TOTWUG/L	07/10/92-07/10/92	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34413	METHYL BROMIDE TOTWUG/L	07/10/92-07/10/92	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34418	METHYL CHLORIDE TOTWUG/L	07/10/92-07/10/92	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34423	METHYLENE CHLORIDE TOTWUG/L	07/10/92-07/10/92	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34475	TETRACHLOROETHYLENE TOTWUG/L	07/10/92-07/10/92	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34488	TRICHLOROFLUOROMETHANE TOTWUG/L	07/10/92-07/10/92	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34496	1,1-DICHLOROETHANE TOTWUG/L	07/10/92-07/10/92	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34501	1,1-DICHLOROETHYLENE TOTWUG/L	07/10/92-07/10/92	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34506	1,1,1-TRICHLOROETHANE TOTWUG/L	07/10/92-07/10/92	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34511	1,1,2-TRICHLOROETHANE TOTWUG/L	07/10/92-07/10/92	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34516	1,1,2,2-TETRACHLOROETHANE TOTWUG/L	07/10/92-07/10/92	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34531	1,2-DICHLOROETHANE TOTWUG/L	07/10/92-07/10/92	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34536	1,2-DICHLOROBENZENE TOTWUG/L	07/10/92-07/10/92	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34541	1,2-DICHLOROPROPANE TOTWUG/L	07/10/92-07/10/92	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34546	TRANS-1,2-DICHLOROETHENE, TOTAL, IN WATER UG/L	07/10/92-07/10/92	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34551	1,2,4-TRICHLOROBENZENE TOTWUG/L	07/10/92-07/10/92	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34561	1,3-DICHLOROPROPENE TOTWUG/L	07/10/92-07/10/92	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34566	1,3-DICHLOROBENZENE TOTWUG/L	07/10/92-07/10/92	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34571	1,4-DICHLOROBENZENE TOTWUG/L	07/10/92-07/10/92	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34576	2-CHLOROETHYL VINYL ETHER TOTWUG/L	07/10/92-07/10/92	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34668	DICHLORODIFUOROMETHANE TOTWUG/L	07/10/92-07/10/92	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34696	NAPHTHALENE TOTWUG/L	07/10/92-07/10/92	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	07/10/92-07/10/92	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
38761	DBCP WATER, DISUG/L	06/23/89-09/21/89	2 ##	0.128	0.128	0.25	0.005	0.03	0.173	**	**	**	**
39045	2,4,5-TP INCLUDES ACIDS & SALTS WATER SAMPL UG/L	06/23/89-11/08/89	2 ##	0.275	0.275	0.5	0.05	0.101	0.318	**	**	**	**
39175	VINYL CHLORIDE-WHOLE WATER SAMPLE-UG/L	07/10/92-07/10/92	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39180	TRICHLOROETHYLENE-WHOLE WATER SAMPLE-UG/L	07/10/92-07/10/92	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	06/23/89-09/21/89	2 ##	0.028	0.028	0.05	0.005	0.001	0.032	**	**	**	**
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	06/23/89-09/21/89	2 ##	0.028	0.028	0.05	0.005	0.001	0.032	**	**	**	**
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	06/23/89-09/21/89	2 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	06/23/89-09/21/89	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	06/23/89-11/08/89	2 ##	2.75	2.75	5.	0.5	10.125	3.182	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	07/10/92-07/10/92	1	56.	56.	56.	56.	0.	0.	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	07/10/92-07/23/96	2 ##	0.008	0.008	0.015	0.	0.	0.011	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	07/10/92-07/10/92	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
77093	CIS-1,2-DICHLOROETHYLENE WHOLE WATER,UG/L	07/10/92-07/10/92	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
77128	STYRENE WHOLE WATER,UG/L	07/10/92-07/10/92	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
77135	O-XYLENE WHOLE WATER,UG/L	07/10/92-07/10/92	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
77168	1,1-DICHLOROPROPENE WHOLE WATER,UG/L	07/10/92-07/10/92	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
77170	2,2-DICHLOROPROPANE WHOLE WATER,UG/L	07/10/92-07/10/92	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
77173	1,3-DICHLOROPROPANE WHOLE WATER,UG/L	07/10/92-07/10/92	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
77222	1,2,4-TRIMETHYLBENZENE WHOLE WATER,UG/L	07/10/92-07/10/92	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: WHIS0054

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
77223	ISOPROPYLBENZENE WHOLE WATER,UG/L	07/10/92-07/10/92	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
77224	N-PROPYLBENZENE WHOLE WATER,UG/L	07/10/92-07/10/92	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
77226	1,3,5-TRIMETHYLBENZENE WHOLE WATER,UG/L	07/10/92-07/10/92	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
77275	1-METHYL-2-CHLOROBENZENE (O-CHLOR*WHOLE WATER,UG/L	07/10/92-07/10/92	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
77277	1-METHYL-4-CHLOROBENZENE (P-CHLOR*WHOLE WATER,UG/L	07/10/92-07/10/92	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
77297	CHLOROBROMOMETHANE WHOLE WATER,UG/L	07/10/92-07/10/92	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
77342	N-BUTYLBENZENE WHOLE WATER,UG/L	07/10/92-07/10/92	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
77350	SEC-BUTYLBENZENE WHOLE WATER,UG/L	07/10/92-07/10/92	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
77353	TERT-BUTYLBENZENE WHOLE WATER,UG/L	07/10/92-07/10/92	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
77356	1-METHYL-4-ISOPROPYLBENZENE WHOLE WATER,UG/L	07/10/92-07/10/92	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
77443	1,2,3-TRICHLOROPROPANE WHOLE WATER,UG/L	07/10/92-07/10/92	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
77562	1,1,1,2-TETRACHLOROETHANE WHOLE WATER,UG/L	07/10/92-07/10/92	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
77596	METHYLENE BROMIDE WHOLE WATER,UG/L	07/10/92-07/10/92	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
77613	1,2,3-TRICHLOROBENZENE WHOLE WATER,UG/L	07/10/92-07/10/92	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
77651	1,2-DIBROMOETHANE WHOLE WATER,UG/L	06/23/89-09/21/89	2 ##	0.13	0.13	0.25	0.01	0.029	0.17	**	**	**	**
81551	XYLENE WHL WATER SMPL UG/L	07/10/92-07/10/92	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
81555	BROMOBENZENE WHL WATER SMPL UG/L	07/10/92-07/10/92	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
81611	TRICHLOROTRIFLUOROETHANE WHL WATER SMPL UG/L	07/10/92-07/10/92	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
82080	TRIHALOMETHANE TOTAL IN WATER, BY SUMMATION UG/L	07/10/92-07/10/92	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
82383	AGGRESSIVE INDEX = PH + LOG(AH) INDEX	07/23/96-07/23/96	1	10.2	10.2	10.2	10.2	0.	0.	**	**	**	**
85795	XYLENE, META & PARA, WATER, WHOLE UG/L	07/10/92-07/10/92	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0054

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00403	PH, LAB	Fresh Chronic	9.	2	0	0.00	2	0	0.00									
		Other-Lo Lim.	6.5	2	0	0.00	2	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
		Drinking Water	250.	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00	1	0	0.00									
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	1	0	0.00	1	0	0.00									
01002	ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
01007	BARIUM, TOTAL	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	1	0	0.00	1	0	0.00									
		Drinking Water	4.	1	0	0.00	1	0	0.00									
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1	0	0.00	1	0	0.00									
		Drinking Water	5.	1	0	0.00	1	0	0.00									
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00	1	0	0.00									
01042	COPPER, TOTAL	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00	1	0	0.00									
		Drinking Water	15.	1	0	0.00	1	0	0.00									
01059	THALLIUM, TOTAL	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01077	SILVER, TOTAL	Fresh Acute	4.1	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
01097	ANTIMONY, TOTAL	Fresh Acute	88.	1	0	0.00	1	0	0.00									
		Drinking Water	6.	1	0	0.00	1	0	0.00									
01147	SELENIUM, TOTAL	Fresh Acute	20.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
32101	BROMODICHLOROMETHANE, WHOLE WATER	Drinking Water	100.	1	0	0.00	1	0	0.00									
32102	CARBON TETRACHLORIDE, WHOLE WATER	Fresh Acute	35200.	1	0	0.00	1	0	0.00									
		Drinking Water	5.	1	0	0.00	1	0	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: WHIS0054

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
32104	BROMOFORM, WHOLE WATER	Drinking Water	100.	1	0	0.00	1	0	0.00									
32105	DIBROMOCHLOROMETHANE, WHOLE WATER	Drinking Water	100.	1	0	0.00	1	0	0.00									
32106	CHLOROFORM, WHOLE WATER	Fresh Acute	28900.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
34010	TOLUENE IN WTR SMPLE GC-MS, HEXADECONE E	Fresh Acute	17500.	1	0	0.00	1	0	0.00									
		Drinking Water	1000.	1	0	0.00	1	0	0.00									
34301	CHLOROBENZENE, TOTAL	Drinking Water	100.	1	0	0.00	1	0	0.00									
34371	ETHYLBENZENE, TOTAL	Fresh Acute	32000.	1	0	0.00	1	0	0.00									
		Drinking Water	700.	1	0	0.00	1	0	0.00									
34391	HEXACHLOROBUTADIENE, TOTAL	Fresh Acute	90.	1	0	0.00	1	0	0.00									
34423	METHYLENE CHLORIDE, TOTAL	Drinking Water	5.	1	0	0.00	1	0	0.00									
34475	TETRACHLOROETHYLENE, TOTAL	Fresh Acute	5280.	1	0	0.00	1	0	0.00									
		Drinking Water	5.	1	0	0.00	1	0	0.00									
34501	1,1-DICHLOROETHYLENE, TOTAL	Drinking Water	7.	1	0	0.00	1	0	0.00									
34506	1,1,1-TRICHLOROETHANE, TOTAL	Drinking Water	200.	1	0	0.00	1	0	0.00									
34511	1,1,2-TRICHLOROETHANE, TOTAL	Drinking Water	5.	1	0	0.00	1	0	0.00									
34531	1,2-DICHLOROETHANE, TOTAL	Fresh Acute	118000.	1	0	0.00	1	0	0.00									
		Drinking Water	5.	1	0	0.00	1	0	0.00									
34536	1,2-DICHLOROBENZENE, TOTAL	Drinking Water	600.	1	0	0.00	1	0	0.00									
34541	1,2-DICHLOROPROPANE, TOTAL	Drinking Water	5.	1	0	0.00	1	0	0.00									
34546	TRANS-1,2-DICHLOROETHENE, TOTAL, IN WATE	Drinking Water	100.	1	0	0.00	1	0	0.00									
34551	1,2,4-TRICHLOROBENZENE, TOTAL	Drinking Water	70.	1	0	0.00	1	0	0.00									
34566	1,3-DICHLOROBENZENE, TOTAL	Drinking Water	600.	1	0	0.00	1	0	0.00									
34571	1,4-DICHLOROBENZENE, TOTAL	Drinking Water	75.	1	0	0.00	1	0	0.00									
34696	NAPHTHALENE, TOTAL	Fresh Acute	2300.	1	0	0.00	1	0	0.00									
38761	DBCP, WATER, DISSOLVED	Drinking Water	0.2	1 &	0	0.00	1	0	0.00									
39045	2,4,5-TP INCLUDES ACIDS & SALTS WATER SA	Drinking Water	50.	2	0	0.00	2	0	0.00									
39175	VINYL CHLORIDE-WHOLE WATER SAMPLE	Drinking Water	2.	1	0	0.00	1	0	0.00									
39180	TRICHLOROETHYLENE-WHOLE WATER SAMPLE	Fresh Acute	45000.	1	0	0.00	1	0	0.00									
		Drinking Water	5.	1	0	0.00	1	0	0.00									
39340	GAMMA-BHC(LINDANE), WHOLE WATER	Fresh Acute	2.	2	0	0.00	2	0	0.00									
		Drinking Water	0.2	2	0	0.00	2	0	0.00									
39390	ENDRIN IN WHOLE WATER SAMPLE	Fresh Acute	0.18	2	0	0.00	2	0	0.00									
		Drinking Water	2.	2	0	0.00	2	0	0.00									
39400	TOXAPHENE IN WHOLE WATER SAMPLE	Fresh Acute	0.73	2	0	0.00	2	0	0.00									
		Drinking Water	3.	2	0	0.00	2	0	0.00									
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE	Drinking Water	40.	2	0	0.00	2	0	0.00									
39730	2,4-D IN WHOLE WATER SAMPLE	Drinking Water	70.	2	0	0.00	2	0	0.00									
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	2	0	0.00	2	0	0.00									
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									
77093	CIS-1,2-DICHLOROETHYLENE, WHOLE WATER	Drinking Water	70.	1	0	0.00	1	0	0.00									
77128	STYRENE, WHOLE WATER	Drinking Water	100.	1	0	0.00	1	0	0.00									
77651	1,2-DIBROMOETHANE, WHOLE WATER	Drinking Water	0.05	1 &	0	0.00	1	0	0.00									

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

Station Inventory for Station: WHIS0055

NPS Station ID: WHIS0055 | LAT/LON: 40.617531/-122.523531 | Agency: 11NPSWRD | Date Created: 02/20/99
Location: GAGING STATION AREA | FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /RESERV/TYPA/AMBNT | STORET Station ID(s): WHIS_WQCB2_08
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 | Depth of Water: 0 | Aquifer:
Major Basin: CALIFORNIA | Elevation: 0 | Water Body Id:
Minor Basin: SACRAMENTO RIVER | ECO Region:
RF1 Index: 18020112 | RF1 Mile Point: 0.000 | Distance from RF1: 0.80 | On/Off RF1:
RF3 Index: 18010211001600.95 | RF3 Mile Point: 5.98 | Distance from RF3: 0.04 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE IGO CA-SHASTA COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS DESCRIBED AS "GAGING STATION AREA" AND IS LOCATED ON WHISKEYTOWN LAKE INSIDE THE WHISKEYTOWN-SHASTA- TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA ARE FROM A MEMORANDUM IN THE ARCHIVE FILES LOCATED AT THE PARK AND ARE BELIEVED TO BE FROM THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD. FOR MORE INFORMATION ON THE WHISKEYTOWN UNIT OF THE PARK CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; P.O. BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/05/76-07/05/76	2	780.	780.	1100.	460.	204800.	452.548	**	**	**	**
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	07/05/76-07/05/76	2	2.852	2.852	3.041	2.663	0.072	0.268	**	**	**	**
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			711.337								
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/05/76-07/05/76	2	58.	58.	93.	23.	2450.	49.497	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/05/76-07/05/76	2	1.665	1.665	1.968	1.362	0.184	0.429	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			46.249								

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

EPA Water Quality Criteria Analysis for Station: WHIS0055

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	2	1	0.50	2	1	0.50									
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	Other-Hi Lim.	200.	2	0	0.00	2	0	0.00									

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

Station Inventory for Station: WHIS0056

NPS Station ID: WHIS0056
LAT/LON: 40.617781/-122.524726
Agency: 21CAL-1
Date Created: 04/26/86
Location: WHISKEYTOWN RES NR IGO
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): A3R03702315
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112
Depth of Water: 0
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER BASIN
ECO Region:
RF1 Index: 18020112
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 18020112000400.00
RF3 Mile Point: 0.00
Distance from RF3: 0.10
On/Off RF3:
Description:
WHISKEYTOWN RES NR IGO

Parameter Inventory for Station: WHIS0056

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: WHIS0057

NPS Station ID: WHIS0057 | LAT/LON: 40.617809/-122.569866 | Agency: 11NPSWRD | Date Created: 02/07/98
Location: BRANDY CREEK BEACH AREA | FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /RESERV/TYPA/AMBNT | STORET Station ID(s): WHIS_WQCB_18
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 | Depth of Water: 0 | Aquifer:
Major Basin: CALIFORNIA | Elevation: 0 | Water Body Id:
Minor Basin: SACRAMENTO RIVER | ECO Region:
RF1 Index: 18020112 | RF1 Mile Point: 0.000 | Distance from RF1: 0.80 | On/Off RF1:
RF3 Index: 18010211001600.95 | RF3 Mile Point: 5.98 | Distance from RF3: 0.04 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE IGO-CA SHASTA COUNTY 7.5 MINUTE (TOPOGRAPHIC) QUADRANGLE. THE SITE IS DESCRIBED BY THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD (WQCB) AS "BRANDY CREEK BEACH AREA." THE SITE IS LOCATED ON THE SOUTH SIDE OF THE BEACH AREA AT WHISKEYTOWN LAKE INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA ARE FROM FOUR BACTERIOLOGICAL SURVEYS PERFORMED BY THE WQCB IN 1986; 1987; 1990 AND 1991. FOR MORE INFORMATION ON THE BACTERIOLOGICAL SURVEYS CONTACT THE WQCB; 415 KNOLLCREST DR. SUITE 100; REDDING CA 96002 (TEL 916-224-4845). FOR MORE INFORMATION ON THE PARK'S WHISKEYTOWN UNIT CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; P.O. BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX970-225-9965).

Parameter Inventory for Station: WHIS0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/15/86-07/17/91	7	43.	221.714	1100.	23.	152829.238	390.934	**	**	**	**
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	07/15/86-07/17/91	7	1.633	1.951	3.041	1.362	0.323	0.569	**	**	**	**
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			89.293								
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/15/86-07/17/91	7	9.	169.286	1100.	1.5	168651.488	410.672	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/15/86-07/17/91	7	0.954	1.17	3.041	0.176	0.98	0.99	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			14.782								

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

EPA Water Quality Criteria Analysis for Station: WHIS0057

				Total	Exceed	Prop.	----------6/01-11/09----------			----------11/10-2/20----------			----------2/21-5/31----------			--------------n/a--------------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	7	1	0.14	7	1	0.14									
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	Other-Hi Lim.	200.	7	1	0.14	7	1	0.14									

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

Station Inventory for Station: WHIS0058

NPS Station ID: WHIS0058
LAT/LON: 40.617809/-122.569866
Agency: 11NPSWRD
Date Created: 05/23/98
Location: RAW WATER AT BRANDY CREEK
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /RESERV/TYPA/AMBNT
STORET Station ID(s): WHIS_NPS_BC1
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112
Depth of Water: 0
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112
RF1 Mile Point: 0.000
Distance from RF1: 0.80
On/Off RF1:
RF3 Index: 18010211001600.95
RF3 Mile Point: 5.98
Distance from RF3: 0.04
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE IGO CALIFORNIA-SHASTA COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS DESCRIBED AS "RAW WATER AT BRANDY CREEK" AND IS LOCATED INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA ARE FROM THE REPORT "BIMONTHLY WATER QUALITY ANALYSIS" (REPORT NUMBER N-2615); WHICH IS IN THE PARK FILES. SAMPLES WERE ANALYZED BY BROWN AND CALDWELL CONSULTING ENGINEERS ON 1/31/1979. FOR MORE INFORMATION ON THE WHISKEYTOWN UNIT OF THE PARK CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA: P.O. BOX 188; WHISKEYTOWN; CALIFORNIA 96095 (TEL 916-241-6584). THE DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NPS WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS; CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0058

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/31/79-01/31/79	1	103.	103.	103.	103.	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	01/31/79-01/31/79	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	01/31/79-01/31/79	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/31/79-01/31/79	1	0.032	0.032	0.032	0.032	0.	0.	**	**	**	**
00420	ALKALINITY, HYDROXIDE (MG/L AS CACO3)	01/31/79-01/31/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00425	ALKALINITY, BICARBONATE (MG/L AS CACO3)	01/31/79-01/31/79	1	45.	45.	45.	45.	0.	0.	**	**	**	**
00430	ALKALINITY, CARBONATE (MG/L AS CACO3)	01/31/79-01/31/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	01/31/79-01/31/79	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/31/79-01/31/79	1	51.	51.	51.	51.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	01/31/79-01/31/79	1	9.6	9.6	9.6	9.6	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/31/79-01/31/79	1	6.6	6.6	6.6	6.6	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	01/31/79-01/31/79	1	2.6	2.6	2.6	2.6	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	01/31/79-01/31/79	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	01/31/79-01/31/79	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	01/31/79-01/31/79	1	0.07	0.07	0.07	0.07	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	01/31/79-01/31/79	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	01/31/79-01/31/79	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	01/31/79-01/31/79	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	01/31/79-01/31/79	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	01/31/79-01/31/79	1	420.	420.	420.	420.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	01/31/79-01/31/79	1	130.	130.	130.	130.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	01/31/79-01/31/79	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

Parameter Inventory for Station: WHIS0058

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01055	MANGANESE, TOTAL (UG/L AS MN)	01/31/79-01/31/79	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	01/31/79-01/31/79	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	01/31/79-01/31/79	1	60.	60.	60.	60.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	01/31/79-01/31/79	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
01288	FOAMING AGENTS MG/L	01/31/79-01/31/79	1 ##	0.015	0.015	0.015	0.015	0.	0.	**	**	**	**
39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	01/31/79-01/31/79	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	01/31/79-01/31/79	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	01/31/79-01/31/79	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	01/31/79-01/31/79	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	01/31/79-01/31/79	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	01/31/79-01/31/79	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	01/31/79-01/31/79	1	55.	55.	55.	55.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0058

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00403	PH, LAB	Fresh Chronic	9.	1	0	0.00				1	0	0.00						
		Other-Lo Lim.	6.5	1	0	0.00				1	0	0.00						
00720	CYANIDE, TOTAL	Fresh Acute	0.022	1	1	1.00				1	1	1.00						
		Drinking Water	0.2	1	0	0.00				1	0	0.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00				1	0	0.00						
		Drinking Water	250.	1	0	0.00				1	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00				1	0	0.00						
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00				1	0	0.00						
01002	ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00				1	0	0.00						
		Drinking Water	50.	1	0	0.00				1	0	0.00						
01007	BARIUM, TOTAL	Drinking Water	2000.	1	0	0.00				1	0	0.00						
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1	0	0.00				1	0	0.00						
		Drinking Water	5.	1	0	0.00				1	0	0.00						
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00				1	0	0.00						
01042	COPPER, TOTAL	Fresh Acute	18.	1	1	1.00				1	1	1.00						
		Drinking Water	1300.	1	0	0.00				1	0	0.00						
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00				1	0	0.00						
		Drinking Water	15.	1	0	0.00				1	0	0.00						
01077	SILVER, TOTAL	Fresh Acute	4.1	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00				1	0	0.00						
		Drinking Water	5000.	1	0	0.00				1	0	0.00						
01147	SELENIUM, TOTAL	Fresh Acute	20.	1	0	0.00				1	0	0.00						
		Drinking Water	50.	1	0	0.00				1	0	0.00						
39340	GAMMA-BHC(LINDANE), WHOLE WATER	Fresh Acute	2.	1	0	0.00				1	0	0.00						
		Drinking Water	0.2	1	0	0.00				1	0	0.00						
39390	ENDRIN IN WHOLE WATER SAMPLE	Fresh Acute	0.18	1	0	0.00				1	0	0.00						
		Drinking Water	2.	1	0	0.00				1	0	0.00						
39400	TOXAPHENE IN WHOLE WATER SAMPLE	Fresh Acute	0.73	1	0	0.00				1	0	0.00						
		Drinking Water	3.	1	0	0.00				1	0	0.00						
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE	Drinking Water	40.	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						

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

Station Inventory for Station: WHIS0059

NPS Station ID: WHIS0059 | LAT/LON: 40.617809/-122.569866 | Agency: 11NPSWRD | Date Created: 02/20/99
Location: BRANDY CREEK AREA | FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /RESERV/TYPA/AMBNT | STORET Station ID(s): WHIS_WQCB2_04
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 | Depth of Water: 0 | Aquifer:
Major Basin: CALIFORNIA | Elevation: 0 | Water Body Id:
Minor Basin: SACRAMENTO RIVER | ECO Region:
RF1 Index: 18020112 | RF1 Mile Point: 0.000 | Distance from RF1: 0.80 | On/Off RF1:
RF3 Index: 18010211001600.95 | RF3 Mile Point: 5.98 | Distance from RF3: 0.04 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE IGO CA-SHASTA COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS DESCRIBED AS "BRANDY CREEK AREA" AND IS LOCATED ON WHISKEYTOWN LAKE INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA ARE FROM A MEMORANDUM ATTACHED TO A LETTER BY JAMES PEDRI OF THE CALIFORNIA WATER QUALITY CONTROL BOARD - CENTRAL VALLEY REGION. THE DOCUMENTS ARE IN THE ARCHIVE FILES LOCATED AT THE PARK. FOR MORE INFORMATION ON THE WHISKEYTOWN UNIT OF THE PARK CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; P.O. BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0059

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/05/76-07/04/77	4	460.	405.	460.	240.	12100.	110.	**	**	**	**
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	07/05/76-07/04/77	4	2.663	2.592	2.663	2.38	0.02	0.141	**	**	**	**
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			390.95								
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/05/76-07/04/77	4	43.	51.	75.	43.	256.	16.	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/05/76-07/04/77	4	1.633	1.694	1.875	1.633	0.015	0.121	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			49.416								

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

EPA Water Quality Criteria Analysis for Station: WHIS0059

				Total	Exceed	Prop.	----------6/01-11/09----------			----------11/10-2/20----------			----------2/21-5/31----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	4	0	0.00	4	0	0.00									
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	Other-Hi Lim.	200.	4	0	0.00	4	0	0.00									

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

Station Inventory for Station: WHIS0060

NPS Station ID: WHIS0060
LAT/LON: 40.617865/-122.522977
Agency: 21CAL-3
Date Created: 09/29/84
Location: 45-013 SHASTA CSD -WHISKEYTOWN LAKE INTAKE
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): A45/013-RAW
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112
Depth of Water: 0
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112
RF1 Mile Point: 0.000
Distance from RF1: 2.70
On/Off RF1:
RF3 Index: 18020112000500.01
RF3 Mile Point: 0.00
Distance from RF3: 0.05
On/Off RF3:
Description:
DIST 01 SHASTA COMMUNITY SERVICES DISTRICT-WHISKEYTOWN LAKE INTAKE

Parameter Inventory for Station: WHIS0060

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	06/21/78-04/28/83	5 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
00086	ODOR (THRESHOLD NUMBER AT 60 DEG C)	06/21/78-04/28/83	5	0.	0.	0.	0.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/21/78-09/22/86	6	70.	69.333	76.	64.	19.067	4.367	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	06/21/78-09/22/86	6	7.65	7.567	7.8	7.2	0.051	0.225	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	06/21/78-09/22/86	6	7.647	7.514	7.8	7.2	0.054	0.232	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/21/78-09/22/86	6	0.023	0.031	0.063	0.016	0.	0.018	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/21/78-09/22/86	6	35.	34.	39.	24.	27.2	5.215	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	06/21/78-09/22/86	6	42.5	41.333	48.	29.	42.667	6.532	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	06/21/78-09/22/86	6	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/21/78-09/22/86	6	33.5	32.5	38.	22.	31.1	5.577	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	06/21/78-09/22/86	6	4.85	4.75	5.5	4.2	0.243	0.493	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	06/21/78-09/22/86	6	5.05	5.	6.2	2.9	1.3	1.14	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	06/21/78-09/22/86	6	2.4	2.813	4.3	2.	0.946	0.973	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/21/78-09/22/86	6	2.	1.917	4.	0.5	1.442	1.201	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	06/21/78-09/22/86	6	4.5	4.	7.	1.	4.8	2.191	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	06/21/78-09/22/86	6 ##	0.025	0.029	0.05	0.025	0.	0.01	**	**	**	**
01501	ALPHA, TOTAL	02/05/80-09/22/86	3	0.2	0.2	0.3	0.1	0.01	0.1	**	**	**	**
01502	ALPHA, TOTAL, COUNTING ERROR	02/05/80-09/22/86	3	0.4	0.333	0.4	0.2	0.013	0.115	**	**	**	**
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	06/21/78-09/22/86	6 ##	0.025	0.022	0.025	0.005	0.	0.008	**	**	**	**
39045	2,4,5-TP INCLUDES ACIDS & SALTS WATER SAMPL UG/L	03/18/82-03/18/82	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	03/18/82-03/18/82	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	03/18/82-03/18/82	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	03/18/82-03/18/82	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	03/18/82-03/18/82	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	03/18/82-03/18/82	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	06/21/78-09/22/86	6	52.	52.333	62.	43.	68.667	8.287	**	**	**	**
71814	LANGELIER INDEX, CORROSIVITY, WATER, INDEX NUMBER	09/22/86-09/22/86	1	-1.73	-1.73	-1.73	-1.73	0.	0.	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	06/21/78-09/22/86	6 ##	0.15	0.25	0.6	0.1	0.043	0.207	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	06/21/78-04/28/83	5	1.	1.64	4.7	0.7	2.958	1.72	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0060

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00403	PH, LAB	Fresh Chronic	9.	6	0	0.00	3	0	0.00				3	0	0.00			
		Other-Lo Lim.	6.5	6	0	0.00	3	0	0.00				3	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	6	0	0.00	3	0	0.00				3	0	0.00			
		Drinking Water	250.	6	0	0.00	3	0	0.00				3	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	6	0	0.00	3	0	0.00				3	0	0.00			
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	6	0	0.00	3	0	0.00				3	0	0.00			
39045	2,4,5-TP INCLUDES ACIDS & SALTS WATER SA	Drinking Water	50.	1	0	0.00							1	0	0.00			
39340	GAMMA-BHC(LINDANE), WHOLE WATER	Fresh Acute	2.	1	0	0.00							1	0	0.00			
		Drinking Water	0.2	1	0	0.00							1	0	0.00			
39390	ENDRIN IN WHOLE WATER SAMPLE	Fresh Acute	0.18	1	0	0.00							1	0	0.00			
		Drinking Water	2.	1	0	0.00							1	0	0.00			
39400	TOXAPHENE IN WHOLE WATER SAMPLE	Fresh Acute	0.73	1	0	0.00							1	0	0.00			
		Drinking Water	3.	1	0	0.00							1	0	0.00			
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE	Drinking Water	40.	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			
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	6	0	0.00	3	0	0.00				3	0	0.00			
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	5	0	0.00	2	0	0.00				3	0	0.00			

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

Station Inventory for Station: WHIS0061

NPS Station ID: WHIS0061
LAT/LON: 40.617865/-122.522977
Agency: 21CAL-3
Date Created: 09/29/84
Location: 45-013 SHASTA CSD - WHISKEYTOWN LAKE INTAKE
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/MUN/INTAKE/AMBNT/LAKE
STORET Station ID(s): A45/013-TREATED
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112
Depth of Water: 0
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112
RF1 Mile Point: 0.000
Distance from RF1: 6.80
On/Off RF1:
RF3 Index: 18020112000500.04
RF3 Mile Point: 0.04
Distance from RF3: 0.03
On/Off RF3:
Description:
DIST 01 SHASTA CSD - WHISKEYTOWN LAKE INTAKE

Parameter Inventory for Station: WHIS0061

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: WHIS0062

NPS Station ID: WHIS0062 | LAT/LON: 40.617865/-122.527449 | Agency: 11NPSWRD | Date Created: 05/23/98
Location: APPROX. 50 M UPSTREAM OF SPRING CREEK CURTAINS | FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /RESERV/TYPA/AMBNT | STORET Station ID(s): WHIS_UCLIM_5
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 | Depth of Water: 0 | Aquifer:
Major Basin: CALIFORNIA | Elevation: 0 | Water Body Id:
Minor Basin: SACRAMENTO RIVER | ECO Region:
RF1 Index: 18020112 | RF1 Mile Point: 0.000 | Distance from RF1: 0.80 | On/Off RF1:
RF3 Index: 18010211001600.95 | RF3 Mile Point: 5.98 | Distance from RF3: 0.04 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE IGO CA-SHASTA CO. 7.5' SERIES (TOPO.) QUADRANGLE. THE SITE IS LOCATED INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT) ON WHISKEYTOWN LAKE APPROX. 50 M UPSTREAM OF THE SPRING CREEK OUTTAKE TEMPERATURE CURTAINS. THE DATA ARE FROM THE 1994 U.C. DAVIS REPORT TO THE BUREAU OF RECLAMATION TITLED "A LIMNOLOGICAL INVESTIGATION OF WHISKEYTOWN RESERVOIR: POTENTIAL IMPACTS OF TEMPERATURE CONTROL CURTAINS." CORRECTED DISSOLVED OXYGEN VALUES WERE UPLOADED TO STORET WITH AN ARBITRARY TIME OF 1200. "J" REMARK CODES WERE USED TO FLAG D.O. VALUES TAKEN WHEN THE PROBE HAD BEEN CALIBRATED IMPROPERLY OR WHEN THE PROBE WAS FUNCTIONING IMPROPERLY. FOR MORE INFO. ABOUT THE PARK CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN- SHASTA-TRINITY NATIONAL RECREATION AREA: PO BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516).

Parameter Inventory for Station: WHIS0062

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/22/93-08/16/94	246	14.85	15.832	24.6	10.2	17.639	4.2	10.87	12.2	19.525	22.4
00078	TRANSPARENCY, SECCHI DISC (METERS)	04/21/93-08/16/94	11	12.3	12.727	17.	8.8	5.484	2.342	9.2	11.4	14.5	16.78
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/22/93-08/16/94	246	69.	68.984	92.	56.	46.359	6.809	60.	64.	74.	76.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/22/93-08/16/94	287	7.8	7.941	10.6	5.9	0.566	0.752	7.18	7.5	8.3	9.3
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	07/22/93-08/16/94	287	84.	84.659	103.	58.	104.61	10.228	72.	77.	92.	99.
00406	PH, FIELD, STANDARD UNITS SU	07/22/93-08/16/94	246	7.69	7.73	8.54	7.1	0.099	0.314	7.327	7.49	8.015	8.163
00406	CONVERTED PH, FIELD, STANDARD UNITS	07/22/93-08/16/94	246	7.69	7.627	8.54	7.1	0.109	0.33	7.327	7.49	8.015	8.163
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/22/93-08/16/94	246	0.02	0.024	0.079	0.003	0.	0.015	0.007	0.01	0.032	0.047
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	04/21/93-08/16/94	135	0.003	0.005	0.03	0.	0.	0.005	0.	0.001	0.008	0.01
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/21/93-08/16/94	134	0.01	0.013	0.042	0.004	0.	0.007	0.005	0.006	0.018	0.022
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/21/93-08/16/94	136	0.003	0.003	0.013	0.001	0.	0.002	0.001	0.002	0.004	0.005
32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	04/21/93-08/16/94	136	0.9	1.097	3.4	0.07	0.559	0.748	0.3	0.6	1.4	2.23
46480	OXIDATION REDUCTION POTENTIAL, FIELD MV	06/01/94-08/16/94	82	315.	308.354	355.	217.	1232.923	35.113	252.6	282.5	341.25	348.7
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	04/21/93-08/16/94	134	0.004	0.005	0.03	0.	0.	0.004	0.002	0.003	0.006	0.009

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

EPA Water Quality Criteria Analysis for Station: WHIS0062

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	287	0	0.00	287	0	0.00									
00406	PH, FIELD	Fresh Chronic	9.	246	0	0.00	246	0	0.00									
		Other-Lo Lim.	6.5	246	0	0.00	246	0	0.00									
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	135	0	0.00	125	0	0.00				10	0	0.00			

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

Station Inventory for Station: WHIS0063

NPS Station ID: WHIS0063
LAT/LON: 40.618338/-122.564727
Agency: 21CAL-3
Date Created: 11/29/86
Location: 45-505 BRANDY CREEK (WHISKEYTOWN LAKE)
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/MUN/INTAKE/AMBNT/STREAM
STORET Station ID(s): A45/505-INTAKE
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112
Depth of Water: 0
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112
RF1 Mile Point: 0.000
Distance from RF1: 1.80
On/Off RF1:
RF3 Index: 18020112000503.62
RF3 Mile Point: 3.62
Distance from RF3: 0.00
On/Off RF3:
Description:
DIST 01 WHISKEYTOWN NATIONAL RECREATION AREA

Parameter Inventory for Station: WHIS0063

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	04/16/84-04/16/84	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00086	ODOR (THRESHOLD NUMBER AT 60 DEG C)	04/16/84-04/16/84	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/17/80-04/10/87	4	92.5	95.5	110.	87.	113.667	10.661	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	03/17/80-04/10/87	4	7.05	7.125	7.7	6.7	0.216	0.465	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	03/17/80-04/10/87	4	6.982	6.971	7.7	6.7	0.248	0.498	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/80-04/10/87	4	0.104	0.107	0.2	0.02	0.007	0.086	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/17/80-04/10/87	3	44.	46.333	55.	40.	60.333	7.767	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	03/17/80-04/10/87	4	53.	52.5	55.	49.	7.	2.646	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	03/17/80-04/10/87	4	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	03/17/80-04/10/87	4	38.	38.25	42.	35.	10.917	3.304	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	03/17/80-04/10/87	4	6.2	6.35	7.6	5.4	0.863	0.929	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	03/17/80-04/10/87	4	5.3	5.475	6.3	5.	0.349	0.591	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	03/17/80-04/10/87	4	3.	2.775	3.1	2.	0.269	0.519	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	03/17/80-04/10/87	4	0.425	0.433	0.5	0.38	0.003	0.054	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	03/17/80-04/10/87	4 ##	1.5	2.063	5.	0.25	4.349	2.085	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	03/17/80-04/10/87	4	2.25	2.125	4.	0.	2.729	1.652	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	03/17/80-04/10/87	4 ##	0.068	0.078	0.15	0.025	0.003	0.059	**	**	**	**
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	03/17/80-04/10/87	4 ##	0.02	0.025	0.05	0.01	0.	0.018	**	**	**	**
39045	2,4,5-TP INCLUDES ACIDS & SALTS WATER SAMPL UG/L	04/16/84-04/10/87	2 ##	2.525	2.525	5.	0.05	12.251	3.5	**	**	**	**
39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	04/16/84-04/10/87	2 ##	1.013	1.013	2.	0.025	1.95	1.397	**	**	**	**
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	04/16/84-04/10/87	2 ##	0.075	0.075	0.1	0.05	0.001	0.035	**	**	**	**
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	04/16/84-04/10/87	2 ##	1.275	1.275	2.5	0.05	3.001	1.732	**	**	**	**
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	04/16/84-04/10/87	2 ##	25.025	25.025	50.	0.05	1247.501	35.32	**	**	**	**
39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	04/16/84-04/10/87	2 ##	25.025	25.025	50.	0.05	1247.501	35.32	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/17/80-04/10/87	4	59.	49.5	73.	7.	852.333	29.195	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/17/80-04/10/87	4 ##	0.25	0.256	0.5	0.025	0.053	0.229	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	04/16/84-04/16/84	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0063

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00403	PH, LAB	Fresh Chronic	9.	4	0	0.00	1	0	0.00				3	0	0.00			
		Other-Lo Lim.	6.5	4	0	0.00	1	0	0.00				3	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	4	0	0.00	1	0	0.00				3	0	0.00			
		Drinking Water	250.	4	0	0.00	1	0	0.00				3	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	4	0	0.00	1	0	0.00				3	0	0.00			
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	4	0	0.00	1	0	0.00				3	0	0.00			
39045	2,4,5-TP INCLUDES ACIDS & SALTS WATER SA	Drinking Water	50.	2	0	0.00							2	0	0.00			
39340	GAMMA-BHC(LINDANE), WHOLE WATER	Fresh Acute	2.	1 &	0	0.00							1	0	0.00			
		Drinking Water	0.2	1 &	0	0.00							1	0	0.00			
39390	ENDRIN IN WHOLE WATER SAMPLE	Fresh Acute	0.18	2	0	0.00							2	0	0.00			
		Drinking Water	2.	2	0	0.00							2	0	0.00			
39400	TOXAPHENE IN WHOLE WATER SAMPLE	Fresh Acute	0.73	1 &	0	0.00							1	0	0.00			
		Drinking Water	3.	2	0	0.00							2	0	0.00			
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE	Drinking Water	40.	1 &	0	0.00							1	0	0.00			
39730	2,4-D IN WHOLE WATER SAMPLE	Drinking Water	70.	2	0	0.00							2	0	0.00			
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	4	0	0.00	1	0	0.00				3	0	0.00			
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: WHIS0064

NPS Station ID: WHIS0064 | LAT/LON: 40.619060/-122.568726 | Agency: 11NPSWRD | Date Created: 02/07/98
Location: BRANDY CREEK EAST SWIM BEACH | FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /RESERV/TYPA/AMBNT | STORET Station ID(s): WHIS_WQCB_17
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 | Depth of Water: 0 | Aquifer:
Major Basin: CALIFORNIA | Elevation: 0 | Water Body Id:
Minor Basin: SACRAMENTO RIVER | ECO Region:
RF1 Index: 18020112 | RF1 Mile Point: 0.000 | Distance from RF1: 0.80 | On/Off RF1:
RF3 Index: 18010211001600.95 | RF3 Mile Point: 5.98 | Distance from RF3: 0.04 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE IGO-CA SHASTA COUNTY 7.5 MINUTE (TOPOGRAPHIC) QUADRANGLE. THE SITE IS DESCRIBED BY THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD (WQCB) AS "BRANDY CREEK EAST SWIM BEACH." THE SITE IS LOCATED AT WHISKEYTOWN LAKE INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA ARE FROM FOUR BACTERIOLOGICAL SURVEYS PERFORMED BY THE WQCB IN 1986; 1987; 1990 AND 1991. FOR MORE INFORMATION ON THE BACTERIOLOGICAL SURVEYS CONTACT THE WQCB; 415 KNOLLCREST DR. SUITE 100; REDDING CA 9600 (TEL 916-224-4845). FOR MORE INFORMATION ON THE WHISKEYTOWN UNIT OF THE PARK CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; P.O. BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0064

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/07/87-07/17/91	6	59.	59.167	93.	23.	1016.167	31.877	**	**	**	**
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	07/07/87-07/17/91	6	1.754	1.709	1.968	1.362	0.071	0.267	**	**	**	**
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			51.176								
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/07/87-07/17/91	6	8.	12.667	43.	4.	225.867	15.029	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/07/87-07/17/91	6	0.9	0.932	1.633	0.602	0.144	0.379	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			8.548								

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

EPA Water Quality Criteria Analysis for Station: WHIS0064

				Total	Exceed	Prop.	6/01-11/09			11/10-2/20			2/21-5/31			n/a		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	6	0	0.00	6	0	0.00									
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	Other-Hi Lim.	200.	6	0	0.00	6	0	0.00									

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

Station Inventory for Station: WHIS0065

NPS Station ID: WHIS0065 LAT/LON: 40.619198/-122.538254 Agency: 11NPSWRD Date Created: 05/23/98
Location: APPROX. 6.0 KM DOWNSTREAM OF OAK BOTTOM CURTAINS FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /RESERV/TYPA/AMBNT STORET Station ID(s): WHIS_UCLIM_4
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 Depth of Water: 0 Aquifer:
Major Basin: CALIFORNIA Elevation: 0 Water Body Id:
Minor Basin: SACRAMENTO RIVER ECO Region:
RF1 Index: 18020112 RF1 Mile Point: 0.000 Distance from RF1: 0.80 On/Off RF1:
RF3 Index: 18010211001600.95 RF3 Mile Point: 5.98 Distance from RF3: 0.04 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE IGO CA-SHASTA CO. 7.5' SERIES (TOPO.) QUADRANGLE. THE SITE IS LOCATED INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT) ON WHISKEYTOWN LAKE APPROX. 6 KM DOWNSTREAM OF THE OAK BOTTOM TEMPERATURE CURTAINS. THE DATA ARE FROM THE 1994 U.C. DAVIS REPORT TO THE BUREAU OF RECLAMATION TITLED "A LIMNOLOGICAL INVESTIGATION OF WHISKEYTOWN RESERVOIR: POTENTIAL IMPACTS OF TEMPERATURE CONTROL CURTAINS." CORRECTED DISSOLVED OXYGEN VALUES WERE UPLOADED TO STORET WITH AN ARBITRARY TIME OF 1200. "J" REMARK CODES WERE USED TO FLAG D.O. VALUES TAKEN WHEN THE PROBE HAD BEEN CALIBRATED IMPROPERLY OR WHEN THE PROBE WAS FUNCTIONING IMPROPERLY. FOR MORE INFO. ABOUT THE PARK CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN- SHASTA-TRINITY NATIONAL RECREATION AREA: PO BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516).

Parameter Inventory for Station: WHIS0065

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/22/93-08/16/94	192	15.75	16.634	24.5	10.2	18.711	4.326	10.93	12.625	21.375	22.47
00078	TRANSPARENCY, SECCHI DISC (METERS)	04/21/93-08/16/94	11	12.1	11.982	16.5	8.	6.004	2.45	8.42	10.2	14.3	16.14
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/22/93-08/16/94	192	72.	70.771	92.	56.	44.89	6.7	64.	66.	74.	77.4
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/22/93-08/16/94	220	8.2	8.202	10.6	7.1	0.465	0.682	7.4	7.6	8.4	9.29
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	07/22/93-08/16/94	250	89.	89.204	117.	69.	69.528	8.338	78.1	85.	97.25	100.
00406	PH, FIELD, STANDARD UNITS SU	07/22/93-08/16/94	192	7.8	7.829	8.32	7.25	0.076	0.275	7.503	7.605	8.06	8.2
00406	CONVERTED PH, FIELD, STANDARD UNITS	07/22/93-08/16/94	192	7.8	7.744	8.32	7.25	0.083	0.288	7.503	7.605	8.06	8.2
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/22/93-08/16/94	192	0.016	0.018	0.056	0.005	0.	0.012	0.006	0.009	0.025	0.031
46480	OXIDATION REDUCTION POTENTIAL, FIELD MV	06/01/94-08/16/94	67	290.	281.821	341.	179.	1897.452	43.56	215.2	251.	318.	337.

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

EPA Water Quality Criteria Analysis for Station: WHIS0065

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	220	0	0.00	220	0	0.00									
00406	PH, FIELD	Fresh Chronic	9.	192	0	0.00	192	0	0.00									
		Other-Lo Lim.	6.5	192	0	0.00	192	0	0.00									

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

Station Inventory for Station: WHIS0066

NPS Station ID: WHIS0066 | LAT/LON: 40.619420/-122.526477 | Agency: 11NPSWRD | Date Created: 02/07/98
Location: 299 EAST; WEST OF GAGING STATION | FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /RESERV/TYPA/AMBNT | STORET Station ID(s): WHIS_WQCB_05
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 | Depth of Water: 0 | Aquifer:
Major Basin: CALIFORNIA | Elevation: 0 | Water Body Id:
Minor Basin: SACRAMENTO RIVER | ECO Region:
RF1 Index: 18020112 | RF1 Mile Point: 0.000 | Distance from RF1: 0.80 | On/Off RF1:
RF3 Index: 18010211001600.95 | RF3 Mile Point: 5.98 | Distance from RF3: 0.04 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE IGO-CA SHASTA COUNTY 7.5 MINUTE (TOPOGRAPHIC) QUADRANGLE. THE SITE IS DESCRIBED BY THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD (WQCB) AS "299 EAST; WEST OF GAGING STATION." THE SITE IS LOCATED APPROXIMATELY 1400 FEET NORTHWEST OF THE EAST GAGING STATION AT WHISKEYTOWN LAKE INSIDE THE WHISKEYTOWN-SHASTA- TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA ARE FROM FOUR BACTERIOLOGICAL SURVEYS PERFORMED BY THE WQCB IN 1986; 1987; 1990 AND 1991. FOR MORE INFORMATION ON THE BACTERIOLOGICAL SURVEYS CONTACT THE WQCB; 415 KNOLLCREST DR. SUITE 100; REDDING CA 96002 (TEL 916-224-4845). FOR MORE INFORMATION ON THE PARK'S WHISKEYTOWN UNIT CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; P.O. BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX970-225-9965).

Parameter Inventory for Station: WHIS0066

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/15/86-07/07/87	3 ##	1.5	2.333	4.	1.5	2.083	1.443	**	**	**	**
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	07/15/86-07/07/87	3 ##	0.176	0.318	0.602	0.176	0.06	0.246	**	**	**	**
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			2.08								
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/15/86-07/07/87	3 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/15/86-07/07/87	3 ##	0.176	0.176	0.176	0.176	0.	0.	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			1.5								

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

EPA Water Quality Criteria Analysis for Station: WHIS0066

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	3	0	0.00	3	0	0.00									
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	Other-Hi Lim.	200.	3	0	0.00	3	0	0.00									

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

Station Inventory for Station: WHIS0067

NPS Station ID: WHIS0067 LAT/LON: 40.619893/-122.514838 Agency: 11NPSWRD Date Created: 05/18/98
Location: BUCKEYE WATER TREATMENT PLANT - SPRING CK TUNNEL FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /CANAL/TYPA/INTAKE/AMBNT/TUNNEL STORET Station ID(s): WHIS_RED_1
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 Depth of Water: 0 Aquifer:
Major Basin: CALIFORNIA Elevation: 0 Water Body Id:
Minor Basin: SACRAMENTO RIVER ECO Region:
RF1 Index: 18020112 RF1 Mile Point: 0.000 Distance from RF1: 0.80 On/Off RF1:
RF3 Index: 18010211001600.95 RF3 Mile Point: 5.98 Distance from RF3: 0.04 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE IGO CALIFORNIA-SHASTA COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS LOCATED AT A TAP IN THE SPRING CREEK TUNNEL APPROXIMATELY 0.5 MILES UPSTREAM OF THE WHISKEYTOWN LAKE INTAKE INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). SPRING CREEK TUNNEL PROVIDES RAW WATER TO THE BUCKEYE WATER TREATMENT PLANT. THE DATA WERE PROVIDED BY THE CITY OF REDDING WATER UTILITY: 20055 VIKING WAY; BLDG. #3; PO BOX 496071; REDDING CA 96049 (TEL 530-224-6068). FOR MORE INFORMATION ON THE WHISKEYTOWN UNIT OF THE PARK CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA: PO BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NPS WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0067

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	08/13/97-01/06/98	6	55.	55.	59.	50.	9.2	3.033	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/13/97-01/06/98	6	75.5	74.	79.	65.	32.8	5.727	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	08/13/97-01/06/98	6	7.35	7.383	7.7	7.2	0.03	0.172	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	08/13/97-01/06/98	6	7.347	7.358	7.7	7.2	0.03	0.174	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/13/97-01/06/98	6	0.045	0.044	0.063	0.02	0.	0.015	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/13/97-01/06/98	6	34.	35.5	42.	32.	17.1	4.135	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/02/97-01/06/98	4	0.4	0.36	0.6	0.04	0.054	0.233	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	08/13/97-01/06/98	6	0.01	0.013	0.03	0.	0.	0.01	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/02/97-01/06/98	4	43.5	43.5	49.	38.	33.667	5.802	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	08/13/97-01/06/98	6	12.6	12.6	13.2	12.	0.176	0.42	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	08/13/97-01/06/98	6 ##	0.05	0.075	0.2	0.05	0.004	0.061	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	08/13/97-01/06/98	6 ##	0.625	1.125	3.	0.25	1.319	1.148	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	08/13/97-01/06/98	6	4.	3.925	8.	0.15	12.15	3.486	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	08/13/97-01/06/98	6	52.5	343.5	1443.	40.	313943.5	560.307	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	08/13/97-01/06/98	6 ##	1.5	1.833	4.	1.	1.367	1.169	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	08/13/97-01/06/98	6	3.2	3.883	6.1	2.5	2.026	1.423	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	08/13/97-01/06/98	6	5.	4.5	9.	1.	7.9	2.811	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	08/13/97-01/06/98	6 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	08/13/97-01/06/98	6 ##	3.	4.167	10.	3.	8.167	2.858	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/13/97-01/06/98	6	56.	54.	73.	26.	289.6	17.018	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	08/13/97-12/02/97	5	5.5	5.8	9.6	2.5	11.165	3.341	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0067

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00403	PH, LAB	Fresh Chronic	9.	6	0	0.00	4	0	0.00	2	0	0.00						
		Other-Lo Lim.	6.5	6	0	0.00	4	0	0.00	2	0	0.00						
01027	CADMIUM, TOTAL	Fresh Acute	3.9	6	0	0.00	4	0	0.00	2	0	0.00						
		Drinking Water	5.	6	0	0.00	4	0	0.00	2	0	0.00						
01034	CHROMIUM, TOTAL	Drinking Water	100.	6	0	0.00	4	0	0.00	2	0	0.00						
01042	COPPER, TOTAL	Fresh Acute	18.	6	0	0.00	4	0	0.00	2	0	0.00						
		Drinking Water	1300.	6	0	0.00	4	0	0.00	2	0	0.00						
01051	LEAD, TOTAL	Fresh Acute	82.	6	0	0.00	4	0	0.00	2	0	0.00						
		Drinking Water	15.	6	0	0.00	4	0	0.00	2	0	0.00						
01067	NICKEL, TOTAL	Fresh Acute	1400.	6	0	0.00	4	0	0.00	2	0	0.00						
		Drinking Water	100.	6	0	0.00	4	0	0.00	2	0	0.00						
01077	SILVER, TOTAL	Fresh Acute	4.1	6	0	0.00	4	0	0.00	2	0	0.00						
		Drinking Water	100.	6	0	0.00	4	0	0.00	2	0	0.00						
01092	ZINC, TOTAL	Fresh Acute	120.	6	0	0.00	4	0	0.00	2	0	0.00						
		Drinking Water	5000.	6	0	0.00	4	0	0.00	2	0	0.00						
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	5	0	0.00	4	0	0.00	1	0	0.00						

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

Station Inventory for Station: WHIS0068

NPS Station ID: WHIS0068 | LAT/LON: 40.620503/-122.568532 | Agency: 11NPSWRD | Date Created: 02/07/98
Location: MOUTH OF BRANDY CREEK COVE | FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /RESERV/TYPA/AMBNT | STORET Station ID(s): WHIS_WQCB_16
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 | Depth of Water: 0 | Aquifer:
Major Basin: CALIFORNIA | Elevation: 0 | Water Body Id:
Minor Basin: SACRAMENTO RIVER | ECO Region:
RF1 Index: 18020112 | RF1 Mile Point: 0.000 | Distance from RF1: 0.80 | On/Off RF1:
RF3 Index: 18010211001600.95 | RF3 Mile Point: 5.98 | Distance from RF3: 0.04 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE IGO-CA SHASTA COUNTY 7.5 MINUTE (TOPOGRAPHIC) QUADRANGLE. THE SITE IS DESCRIBED BY THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD (WQCB) AS "MOUTH OF BRANDY CREEK COVE." THE SITE IS LOCATED AT WHISKEYTOWN LAKE INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA ARE FROM FOUR BACTERIOLOGICAL SURVEYS PERFORMED BY THE WQCB IN 1986; 1987; 1990 AND 1991. FOR MORE INFORMATION ON THE BACTERIOLOGICAL SURVEY CONTACT THE WQCB; 415 KNOLLCREST DR. SUITE 100; REDDING CA 96002 (TEL 916-224-4845). FOR MORE INFORMATION ON THE WHISKEYTOWN UNIT OF THE PARK CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; P.O. BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0068

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/31/90-07/31/90	2 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	07/31/90-07/31/90	2 ##	0.176	0.176	0.176	0.176	0.	0.	**	**	**	**
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			1.5								
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/31/90-07/31/90	2 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/31/90-07/31/90	2 ##	0.176	0.176	0.176	0.176	0.	0.	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			1.5								

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

EPA Water Quality Criteria Analysis for Station: WHIS0068

				Total	Exceed	Prop.	----------6/01-11/09----------			----------11/10-2/20----------			----------2/21-5/31----------			--------------n/a--------------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	2	0	0.00	2	0	0.00									
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	Other-Hi Lim.	200.	2	0	0.00	2	0	0.00									

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

Station Inventory for Station: WHIS0069

NPS Station ID: WHIS0069 | LAT/LON: 40.621753/-122.572559 | Agency: 11NPSWRD | Date Created: 02/07/98
Location: BRANDY CREEK MARINA | FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /RESERV/TYPA/AMBNT | STORET Station ID(s): WHIS_WQCB_21
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 | Depth of Water: 0 | Aquifer:
Major Basin: CALIFORNIA | Elevation: 0 | Water Body Id:
Minor Basin: SACRAMENTO RIVER | ECO Region:
RF1 Index: 18020112 | RF1 Mile Point: 0.000 | Distance from RF1: 0.80 | On/Off RF1:
RF3 Index: 18010211001600.95 | RF3 Mile Point: 5.98 | Distance from RF3: 0.04 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE IGO-CA SHASTA COUNTY 7.5 MINUTE (TOPOGRAPHIC) QUADRANGLE. THE SITE IS DESCRIBED BY THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD (WQCB) AS "BRANDY CREEK MARINA." THE SITE IS LOCATED AT WHISKEYTOWN LAKE INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA ARE FROM FOUR BACTERIOLOGICAL SURVEYS PERFORMED BY THE WQCB IN 1986; 1987; 1990 AND 1991. FOR MORE INFORMATION ON THE BACTERIOLOGICAL SURVEYS CONTACT THE WQCB; 415 KNOLLCREST DR. SUITE 100; REDDING CA 96002 (TEL 916-224-4845). FOR MORE INFORMATION ON THE PARK'S WHISKEYTOWN UNIT CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; P.O. BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0069

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/15/86-07/31/90	5	23.	59.8	240.	4.	10218.7	101.088	**	**	**	**
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	07/15/86-07/31/90	5	1.362	1.332	2.38	0.602	0.444	0.666	**	**	**	**
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			21.478								
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/15/86-07/31/90	5 ##	1.5	9.8	43.	1.5	344.45	18.559	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/15/86-07/31/90	5 ##	0.176	0.468	1.633	0.176	0.425	0.652	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			2.935								

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

EPA Water Quality Criteria Analysis for Station: WHIS0069

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	5	0	0.00	5	0	0.00									
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	Other-Hi Lim.	200.	5	0	0.00	5	0	0.00									

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

Station Inventory for Station: WHIS0070

NPS Station ID: WHIS0070 | LAT/LON: 40.621837/-122.570032 | Agency: 11NPSWRD | Date Created: 02/07/98
Location: BRANDY CREEK WINDSURFING AREA | FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /RESERV/TYPA/AMBNT | STORET Station ID(s): WHIS_WQCB_20
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 | Depth of Water: 0 | Aquifer:
Major Basin: CALIFORNIA | Elevation: 0 | Water Body Id:
Minor Basin: SACRAMENTO RIVER | ECO Region:
RF1 Index: 18020112 | RF1 Mile Point: 0.000 | Distance from RF1: 0.80 | On/Off RF1:
RF3 Index: 18010211001600.95 | RF3 Mile Point: 5.98 | Distance from RF3: 0.04 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE IGO-CA SHASTA COUNTY 7.5 MINUTE (TOPOGRAPHIC) QUADRANGLE. THE SITE IS DESCRIBED BY THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD (WQCB) AS "BRANDY CREEK WINDSURFING AREA." THE SITE IS LOCATED AT WHISKEYTOWN LAKE INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA ARE FROM FOUR BACTERIOLOGICAL SURVEYS PERFORMED BY THE WQCB IN 1986; 1987; 1990 AND 1991. FOR MORE INFORMATION ON THE BACTERIOLOGICAL SURVEYS CONTACT THE WQCB; 415 KNOLLCREST DR. SUITE 100; REDDING CA 9600 (TEL 916-224-4845). FOR MORE INFORMATION ON THE WHISKEYTOWN UNIT OF THE PARK CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; P.O. BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0070

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/31/90-07/17/91	4 ##	5.25	5.25	9.	1.5	18.75	4.33	**	**	**	**
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	07/31/90-07/17/91	4 ##	0.565	0.565	0.954	0.176	0.202	0.449	**	**	**	**
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			3.674								
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/31/90-07/17/91	4 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/31/90-07/17/91	4 ##	0.176	0.176	0.176	0.176	0.	0.	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			1.5								

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

EPA Water Quality Criteria Analysis for Station: WHIS0070

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	4	0	0.00	4	0	0.00									
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	Other-Hi Lim.	200.	4	0	0.00	4	0	0.00									

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

Station Inventory for Station: WHIS0071

NPS Station ID: WHIS0071 LAT/LON: 40.622448/-122.532727 Agency: 11NPSWRD Date Created: 02/07/98
Location: 299 EAST B/W BRIDGE AND VISITORS INFO. CENTER FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /RESERV/TYPA/AMBNT STORET Station ID(s): WHIS_WQCB_04
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 Depth of Water: 0 Aquifer:
Major Basin: CALIFORNIA Elevation: 0 Water Body Id:
Minor Basin: SACRAMENTO RIVER ECO Region:
RF1 Index: 18020112 RF1 Mile Point: 0.000 Distance from RF1: 0.80 On/Off RF1:
RF3 Index: 18010211001600.95 RF3 Mile Point: 5.98 Distance from RF3: 0.04 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE IGO-CA SHASTA COUNTY 7.5 MINUTE (TOPOGRAPHIC) QUADRANGLE. THE SITE IS DESCRIBED BY THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD (WQCB) AS "299 EAST B/W BRIDGE AND VISITORS INFO. CENTER." THE SITE IS LOCATED AT WHISKEYTOWN LAKE INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA ARE FROM FOUR BACTERIOLOGICAL SURVEYS PERFORMED BY THE WQCB IN 1986; 1987; 1990 AND 1991. FOR MORE INFORMATION ON THE BACTERIOLOGICAL SURVEY CONTACT THE WQCB; 415 KNOLLCREST DR. SUITE 100; REDDING CA 96002 (TEL 916-224-4845). FOR MORE INFORMATION ON THE WHISKEYTOWN UNIT OF THE PARK CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; P.O. BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX970-225-9965).

Parameter Inventory for Station: WHIS0071

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/15/86-07/31/90	5	4.	8.1	23.	1.5	77.3	8.792	**	**	**	**
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	07/15/86-07/31/90	5	0.602	0.714	1.362	0.176	0.209	0.457	**	**	**	**
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			5.179								
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/15/86-07/31/90	5 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/15/86-07/31/90	5 ##	0.176	0.176	0.176	0.176	0.	0.	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			1.5								

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

EPA Water Quality Criteria Analysis for Station: WHIS0071

				Total	Exceed	Prop.	----------6/01-11/09----------			----------11/10-2/20----------			----------2/21-5/31----------			--------------n/a--------------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	5	0	0.00	5	0	0.00									
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	Other-Hi Lim.	200.	5	0	0.00	5	0	0.00									

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

Station Inventory for Station: WHIS0072

NPS Station ID: WHIS0072 | LAT/LON: 40.622448/-122.532727 | Agency: 11NPSWRD | Date Created: 02/20/99
Location: COVE ON NORTH SHORE AREA | FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /RESERV/TYPA/AMBNT | STORET Station ID(s): WHIS_WQCB2_07
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 | Depth of Water: 0 | Aquifer:
Major Basin: CALIFORNIA | Elevation: 0 | Water Body Id:
Minor Basin: SACRAMENTO RIVER | ECO Region:
RF1 Index: 18020112 | RF1 Mile Point: 0.000 | Distance from RF1: 0.80 | On/Off RF1:
RF3 Index: 18010211001600.95 | RF3 Mile Point: 5.98 | Distance from RF3: 0.04 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE IGO CA-SHASTA COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS DESCRIBED AS "COVE ON NORTH SHORE AREA" AND IS LOCATED ON WHISKEYTOWN LAKE INSIDE THE WHISKEYTOWN-SHASTA- TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA ARE FROM A MEMORANDUM IN THE ARCHIVE FILES LOCATED AT THE PARK AND ARE BELIEVED TO BE FROM THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD. FOR MORE INFORMATION ON THE WHISKEYTOWN UNIT OF THE PARK CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; P.O. BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/05/76-07/04/77	4	2400.	2075.	2400.	1100.	422500.	650.	**	**	**	**
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	07/05/76-07/04/77	4	3.38	3.296	3.38	3.041	0.029	0.169	**	**	**	**
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			1974.725								
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/05/76-07/04/77	3	460.	523.	1100.	9.	300547.	548.222	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/05/76-07/04/77	3	2.663	2.219	3.041	0.954	1.236	1.112	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			165.754								

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

EPA Water Quality Criteria Analysis for Station: WHIS0072

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	4	4	1.00	4	4	1.00									
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	Other-Hi Lim.	200.	3	2	0.67	3	2	0.67									

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

Station Inventory for Station: WHIS0073

NPS Station ID: WHIS0073 | LAT/LON: 40.622698/-122.552642 | Agency: 11NPSWRD | Date Created: 02/07/98
Location: MID-LAKE EAST OF BRANDY CREEK AREA | FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /RESERV/TYPA/AMBNT | STORET Station ID(s): WHIS_WQCB_14
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 | Depth of Water: 0 | Aquifer:
Major Basin: CALIFORNIA | Elevation: 0 | Water Body Id:
Minor Basin: SACRAMENTO RIVER | ECO Region:
RF1 Index: 18020112 | RF1 Mile Point: 0.000 | Distance from RF1: 0.80 | On/Off RF1:
RF3 Index: 18010211001600.95 | RF3 Mile Point: 5.98 | Distance from RF3: 0.04 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE IGO-CA SHASTA COUNTY 7.5 MINUTE (TOPOGRAPHIC) QUADRANGLE. THE SITE IS DESCRIBED BY THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD (WQCB) AS "MID-LAKE EAST OF BRANDY CREEK AREA." THE SITE IS LOCATED AT WHISKEYTOWN LAKE INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA ARE FROM FOUR BACTERIOLOGICAL SURVEYS PERFORMED BY THE WQCB IN 1986; 1987; 1990 AND 1991. FOR MORE INFORMATION ON THE BACTERIOLOGICAL SURVEYS CONTACT THE WQCB; 415 KNOLLCREST DR. SUITE 100; REDDING CA 9600 (TEL 916-224-4845). FOR MORE INFORMATION ON THE WHISKEYTOWN UNIT OF THE PARK CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; P.O. BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0073

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/15/86-07/31/90	5	3.	3.8	9.	1.5	9.575	3.094	**	**	**	**
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	07/15/86-07/31/90	5	0.477	0.477	0.954	0.176	0.106	0.326	**	**	**	**
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			3.								
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/15/86-07/31/90	5 ##	1.5	2.3	4.	1.5	1.325	1.151	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/15/86-07/31/90	5 ##	0.176	0.321	0.602	0.176	0.042	0.204	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			2.096								

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

EPA Water Quality Criteria Analysis for Station: WHIS0073

				Total	Exceed	Prop.	----------6/01-11/09----------			----------11/10-2/20----------			----------2/21-5/31----------			--------------n/a--------------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	5	0	0.00	5	0	0.00									
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	Other-Hi Lim.	200.	5	0	0.00	5	0	0.00									

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

Station Inventory for Station: WHIS0074

NPS Station ID: WHIS0074 | LAT/LON: 40.623253/-122.583781 | Agency: 11NPSWRD | Date Created: 05/23/98
Location: BRANDY CREEK SPRAY FIELD | FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): WHIS_NPS_07
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 | Depth of Water: 0 | Aquifer:
Major Basin: CALIFORNIA | Elevation: 0 | Water Body Id:
Minor Basin: SACRAMENTO RIVER | ECO Region:
RF1 Index: 18020112 | RF1 Mile Point: 0.000 | Distance from RF1: 0.80 | On/Off RF1:
RF3 Index: 18010211001600.95 | RF3 Mile Point: 5.98 | Distance from RF3: 0.04 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE IGO CA-SHASTA COUNTY 7.5' SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE WAS DESCRIBED BY THE NPS AS "BRANDY CREEK SPRAY FIELD" AND WAS LOCATED ON AN INTERMITTENT STREAM UNDER THE BRIDGE FOR SOUTH SHORE ROAD SOUTHWEST OF THE DRY CREEK CAMPGROUND INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA WERE COLLECTED FROM APPROXIMATELY 1973 UNTIL 1980 BY PARK PERSONNEL FOR FOURTEEN TOTAL LOCATIONS. THE DATA FOR EACH LOCATION WERE IN SEPARATELY BOUND FILES. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; PO BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NPS WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0074

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-01/23/80	46	9.	10.424	19.	4.	14.809	3.848	6.07	7.95	12.2	17.3
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-01/23/80	46	15.	15.559	34.	3.9	40.028	6.327	8.72	11.075	19.	24.
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/01/73-01/23/80	37	0.5	1.095	6.	0.03	2.183	1.478	0.03	0.1	1.5	3.2
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-01/23/80	48	1.	3.565	28.	0.	31.735	5.633	0.	0.	5.	11.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-01/23/80	39	60.	67.538	121.	42.	397.097	19.927	48.	50.	80.	95.
00300	OXYGEN, DISSOLVED MG/L	03/02/73-01/23/80	45	10.8	10.56	14.	4.2	3.276	1.81	7.94	9.8	11.65	12.
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-01/23/80	48	0.3	0.449	4.	0.	0.478	0.691	0.02	0.2	0.4	1.
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/04/74-04/14/76	18	2.75	3.064	8.3	1.1	2.97	1.723	1.415	1.8	3.6	6.23
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	11/01/73-04/14/76	26	0.045	0.08	0.33	0.	0.006	0.075	0.01	0.028	0.108	0.183
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/73-12/14/79	47	20.	26.83	65.	10.	149.97	12.246	14.	20.	35.	40.2

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

EPA Water Quality Criteria Analysis for Station: WHIS0074

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	48	0	0.00	6	0	0.00	20	0	0.00	22	0	0.00			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	45	0	0.00	6	0	0.00	19	0	0.00	20	0	0.00			

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

EPA Water Quality Criteria Analysis for Station: WHIS0074

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00620 NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	48	0	0.00	6	0	0.00	20	0	0.00	22	0	0.00			

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

Seasonal Analysis for Season #1: 6/01 to 11/09 - Station WHIS0074

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-01/23/80	6	18.5	16.85	19.	12.2	9.103	3.017	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-01/23/80	6	23.4	23.767	32.	17.8	21.511	4.638	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/01/73-01/23/80	4	0.05	0.108	0.3	0.03	0.017	0.13	**	**	**	**
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-01/23/80	6	2.5	6.333	28.	0.	116.267	10.783	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-01/23/80	5	95.	94.4	121.	71.	468.8	21.652	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	03/02/73-01/23/80	6	7.45	7.283	9.5	4.2	3.07	1.752	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-01/23/80	6	0.5	0.925	3.	0.25	1.108	1.052	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/73-12/14/79	6	40.	40.	60.	25.	130.	11.402	**	**	**	**

** - Less than 9 observations ## - Computed 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: 11/10 to 2/20 - Station WHIS0074

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-01/23/80	20	8.15	7.86	12.	4.	3.589	1.894	5.51	6.325	9.	10.48
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-01/23/80	20	11.75	11.57	17.	3.9	11.611	3.407	6.23	8.925	14.3	15.6
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/01/73-01/23/80	17	0.7	1.368	6.	0.03	2.748	1.658	0.038	0.15	2.	4.4
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-01/23/80	20	2.35	3.735	11.	0.	17.068	4.131	0.	0.	8.	10.9
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-01/23/80	18	60.	64.611	91.	44.	259.31	16.103	49.4	50.	81.25	90.1
00300	OXYGEN, DISSOLVED MG/L	03/02/73-01/23/80	19	10.8	10.8	11.9	9.3	0.592	0.77	9.5	10.5	11.4	11.9
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-01/23/80	20	0.3	0.565	4.	0.	0.714	0.845	0.2	0.25	0.475	1.
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/73-12/14/79	19	20.	24.526	41.	10.	82.041	9.058	15.	20.	30.	40.

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

Seasonal Analysis for Season #3: 2/21 to 5/31 - Station WHIS0074

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-01/23/80	20	11.	11.06	17.	7.	8.703	2.95	7.82	8.3	13.55	15.54
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-01/23/80	20	16.	17.085	34.	7.	37.057	6.087	9.1	14.1	19.75	27.31
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/01/73-01/23/80	16	0.5	1.052	5.	0.03	1.959	1.399	0.079	0.2	1.	3.6
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-01/23/80	22 ##	0.	2.655	20.	0.	24.816	4.982	0.	0.	3.5	10.8
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-01/23/80	16	57.5	62.438	110.	42.	308.529	17.565	44.1	50.	73.	92.5
00300	OXYGEN, DISSOLVED MG/L	03/02/73-01/23/80	20	11.2	11.315	14.	9.	2.169	1.473	9.17	10.225	12.	14.
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-01/23/80	22	0.225	0.213	0.6	0.	0.024	0.155	0.013	0.06	0.3	0.4
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/73-12/14/79	22	20.	25.227	65.	10.	170.184	13.045	10.	20.	30.	47.

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

Station Inventory for Station: WHIS0075

NPS Station ID: WHIS0075 LAT/LON: 40.623643/-122.554670 Agency: 11NPSWRD Date Created: 05/23/98
Location: APPROX. 4.5 KM DOWNSTREAM OF OAK BOTTOM CURTAINS FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /RESERV/TYPA/AMBNT STORET Station ID(s): WHIS_UCLIM_3
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 Depth of Water: 0 Aquifer:
Major Basin: CALIFORNIA Elevation: 0 Water Body Id:
Minor Basin: SACRAMENTO RIVER ECO Region:
RF1 Index: 18020112 RF1 Mile Point: 0.000 Distance from RF1: 0.80 On/Off RF1:
RF3 Index: 18010211001600.95 RF3 Mile Point: 5.98 Distance from RF3: 0.04 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE IGO CA 7.5' SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS LOCATED INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT) ON WHISKEYTOWN LAKE APPROX. 4.5 KM DOWNSTREAM OF THE OAK BOTTOM TEMPERATURE CURTAINS. THE DATA ARE FROM THE 1994 U.C. DAVIS REPORT TO THE BUREAU OF RECLAMATION: "A LIMNOLOGICAL INVESTIGATION OF WHISKEYTOWN RESERVOIR: POTENTIAL IMPACTS OF TEMPERATURE CONTROL CURTAINS." CORRECTED DISSOLVED OXYGEN VALUES WERE UPLOADED TO STORET WITH AN ARBITRARY TIME OF 1200. "J" REMARK CODES WERE USED TO FLAG VALUES TAKEN WHILE PROBE WASN'T FULLY SUBMERGED. FOR MORE INFO. ON THE WHISKEYTOWN UNIT OF THE PARK CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA: PO BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0075

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/22/93-08/16/94	178	16.1	16.936	24.4	10.4	18.288	4.276	11.6	13.025	21.6	22.5
00078	TRANSPARENCY, SECCHI DISC (METERS)	04/21/93-08/16/94	11	11.	11.655	15.	9.3	3.351	1.83	9.36	10.5	12.8	14.86
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/22/93-08/16/94	179	72.	71.642	90.	48.	36.725	6.06	64.	66.	74.	76.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/22/93-08/16/94	235	8.3	8.418	11.	7.1	0.573	0.757	7.5	7.9	8.8	9.4
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	07/22/93-08/16/94	235	91.	91.332	120.	71.	55.983	7.482	80.	87.	98.	100.
00406	PH, FIELD, STANDARD UNITS SU	07/22/93-08/16/94	179	7.81	7.852	8.36	7.41	0.064	0.253	7.55	7.62	8.09	8.21
00406	CONVERTED PH, FIELD, STANDARD UNITS	07/22/93-08/16/94	179	7.81	7.785	8.36	7.41	0.068	0.261	7.55	7.62	8.09	8.21
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/22/93-08/16/94	179	0.015	0.016	0.039	0.004	0.	0.009	0.006	0.008	0.024	0.028
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	04/21/93-08/16/94	100	0.003	0.004	0.03	0.	0.	0.006	0.001	0.001	0.005	0.01
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/21/93-08/16/94	99	0.011	0.013	0.033	0.004	0.	0.008	0.005	0.006	0.02	0.025
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/21/93-08/16/94	102	0.002	0.003	0.012	0.001	0.	0.002	0.001	0.001	0.004	0.007
32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	04/21/93-08/16/94	102	0.9	1.144	2.8	0.07	0.421	0.649	0.43	0.7	1.6	2.1
46480	OXIDATION REDUCTION POTENTIAL, FIELD MV	06/01/94-08/16/94	69	305.	307.536	361.	220.	1809.988	42.544	247.	275.5	353.	359.
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	04/21/93-08/16/94	102	0.003	0.003	0.01	0.	0.	0.002	0.001	0.002	0.005	0.006

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

EPA Water Quality Criteria Analysis for Station: WHIS0075

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	235	0	0.00	235	0	0.00									
00406	PH, FIELD	Fresh Chronic	9.	179	0	0.00	179	0	0.00									
		Other-Lo Lim.	6.5	179	0	0.00	179	0	0.00									
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	100	0	0.00	92	0	0.00				8	0	0.00			

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

Station Inventory for Station: WHIS0076

NPS Station ID: WHIS0076 LAT/LON: 40.625005/-122.556671 Agency: 113BUREC Date Created: 01/03/87
Location: CLEAR CR 2 MI ABOVE WHISKEYTOWN D, WHISKEYTOWN L FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): LWSKTWN3 /WHTNTEMPA /SH22
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 Depth of Water: 0 Aquifer:
Major Basin: CALIFORNIA Elevation: 0 Water Body Id:
Minor Basin: SACRAMENTO RIVER ECO Region:
RF1 Index: 18020112 RF1 Mile Point: 0.000 Distance from RF1: 0.80 On/Off RF1:
RF3 Index: 18020112000407.37 RF3 Mile Point: 7.37 Distance from RF3: 0.18 On/Off RF3:
Description:
CLEAR CREEK 2 MILES ABOVE WHISKEYTOWN DAM IN WHISKEYTOWN LAKE

Parameter Inventory for Station: WHIS0076

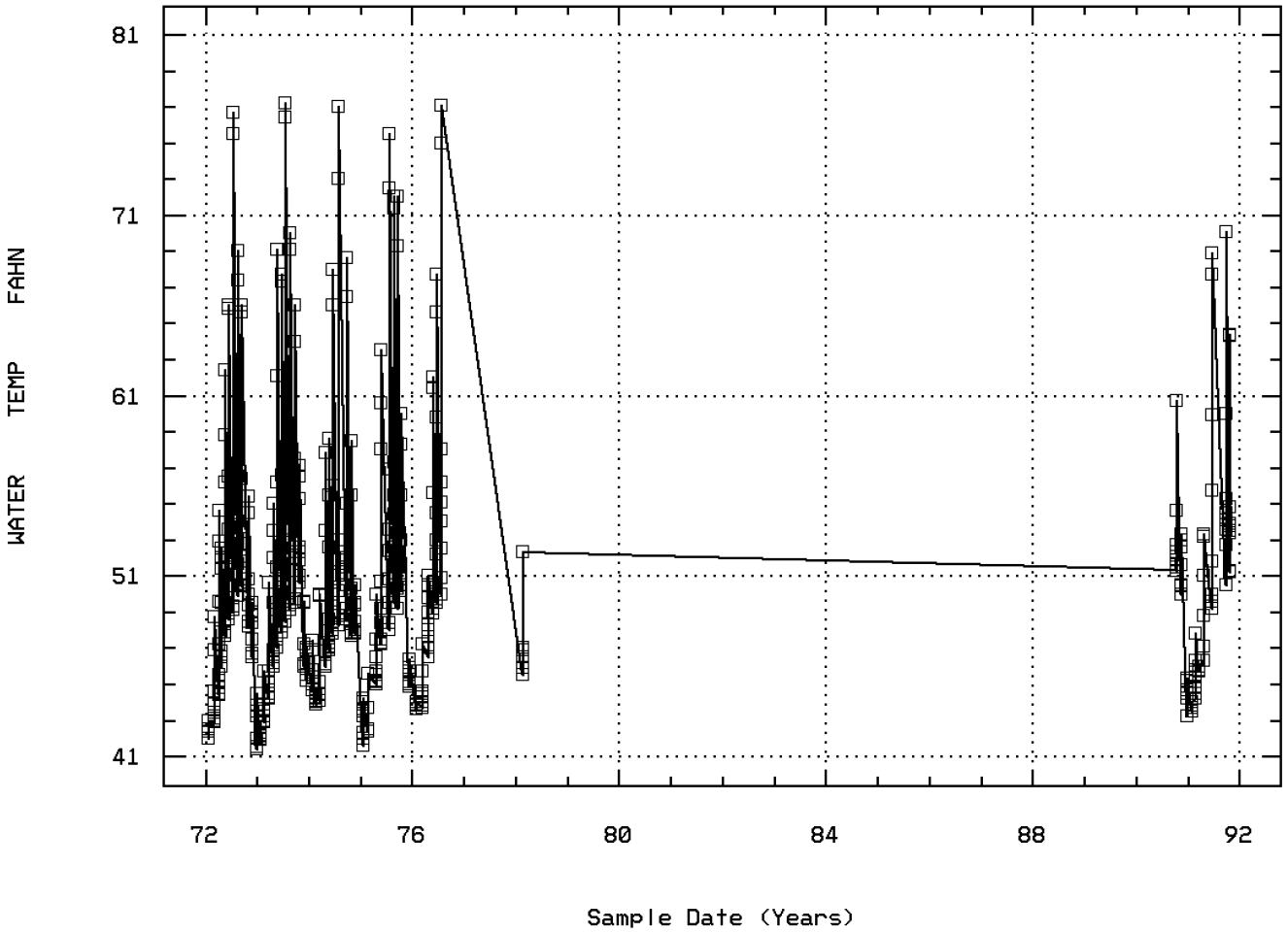
Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/30/78-09/13/90	968	10.1	10.949	26.3	3.5	17.805	4.22	6.8	8.1	12.5	17.1
00011p	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/24/72-10/18/91	540	49.2	50.454	77.2	41.4	49.896	7.064	43.6	45.5	52.8	58.78
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/11/87-09/13/90	20	26.2	26.275	40.	14.	66.18	8.135	14.65	19.35	31.325	39.7
00021	TEMPERATURE, AIR (DEGREES FAHRENHEIT)	10/11/90-10/18/91	10	64.9	63.63	83.5	44.	168.438	12.978	44.85	52.875	72.425	83.39
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/27/86-12/03/86	43	1208.	1205.814	1209.	1193.	22.155	4.707	1198.	1208.	1209.	1209.
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	01/24/72-10/18/91	1465	1207.	1204.244	1211.	1191.	28.192	5.31	1197.	1198.	1209.	1209.
72020p	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	01/24/72-10/18/91	1508	1125.	1114.027	1211.	975.	4148.424	64.408	1025.	1050.	1175.	1200.

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

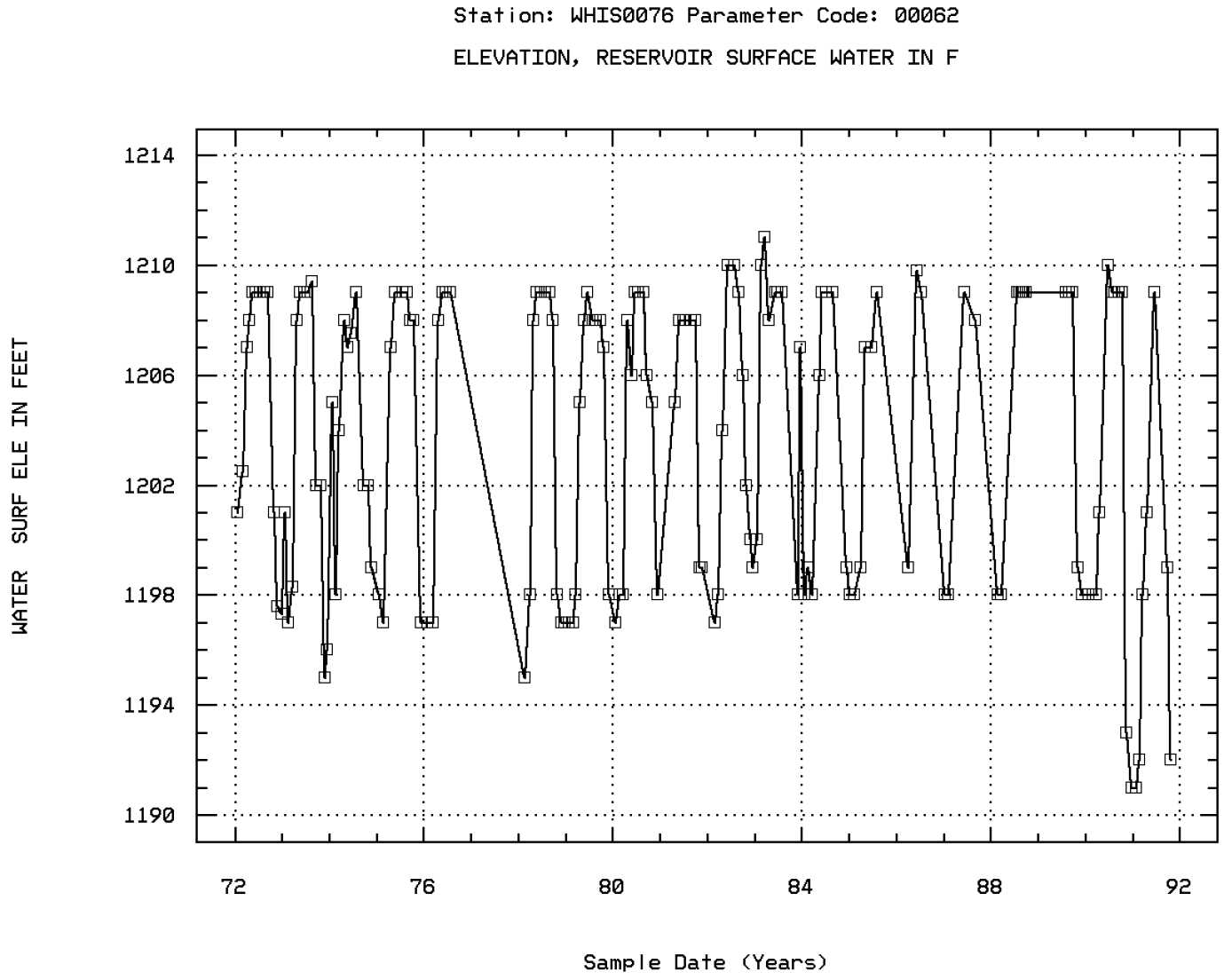
********** No EPA Water Quality Criteria exist to compare against the data at this station. **********

Station: WHIS0076 Parameter Code: 00011

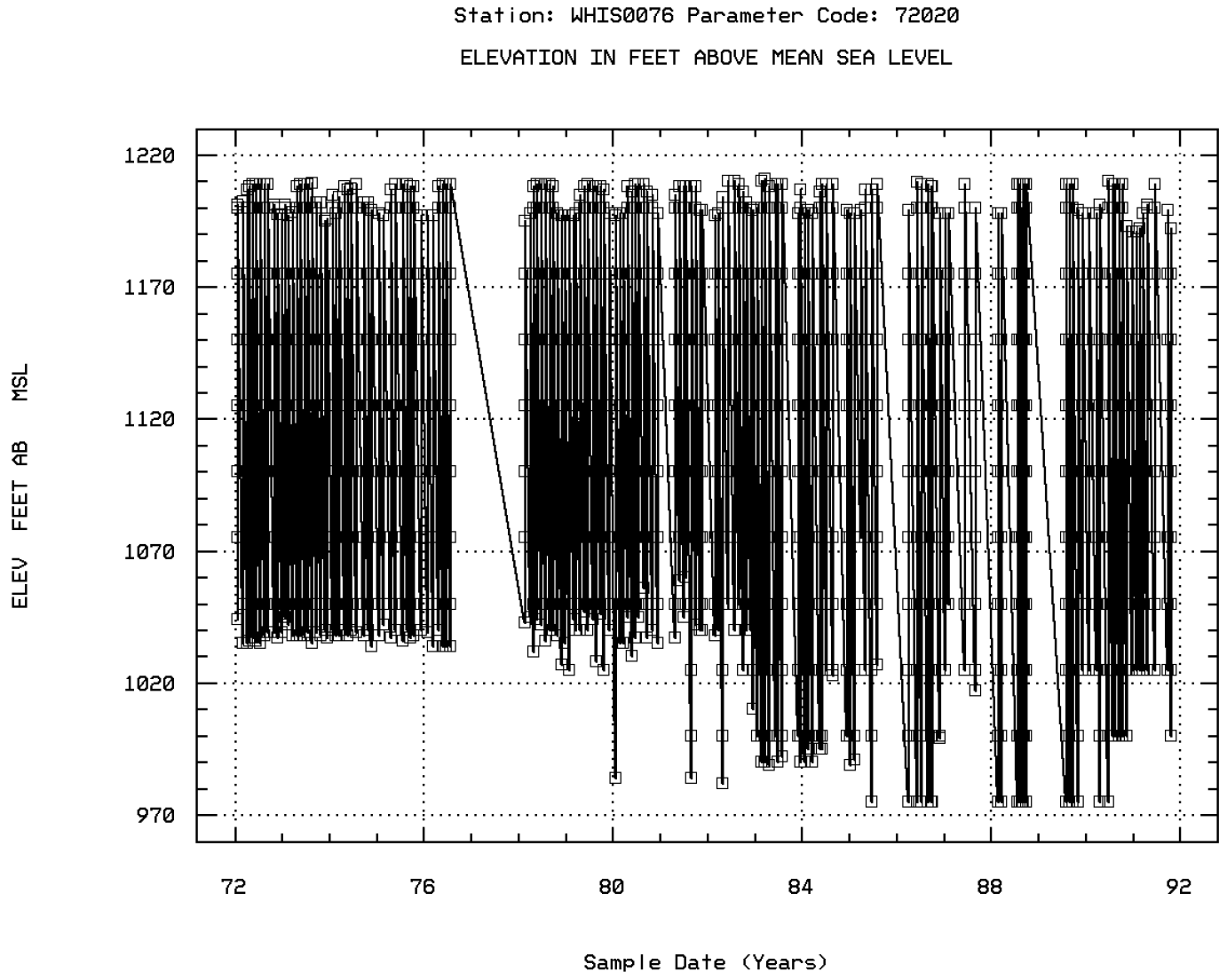
TEMPERATURE, WATER (DEGREES FAHRENHEIT)



CLEAR CR 2 MI ABOVE WHISKEYTOWN D, WHIS



CLEAR CR 2 MI ABOVE WHISKEYTOWN D, WHIS



CLEAR CR 2 MI ABOVE WHISKEYTOWN D, WHIS

Annual Analysis for 1972 - Station WHIS0076

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/24/72-10/18/91	105	49.1	50.263	76.7	41.4	49.706	7.05	42.74	45.	52.75	57.72
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	01/24/72-10/18/91	105	1208.	1205.13	1209.	1197.3	19.96	4.468	1197.6	1201.	1209.	1209.
72020p	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	01/24/72-10/18/91	105	1125.	1123.423	1209.	1035.	3478.443	58.978	1039.	1075.	1175.	1200.4

** - 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 1973 - Station WHIS0076

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/24/72-10/18/91	115	49.5	50.647	77.2	41.9	54.28	7.367	43.	45.5	53.5	59.34
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	01/24/72-10/18/91	115	1202.	1203.206	1209.4	1195.	29.241	5.408	1196.	1198.3	1209.	1209.
72020p	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	01/24/72-10/18/91	115	1125.	1122.835	1209.4	1035.	3291.86	57.375	1043.8	1075.	1175.	1200.

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0076

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/24/72-10/18/91	98	48.35	50.173	77.	43.9	43.765	6.616	44.1	46.	51.6	58.5
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	01/24/72-10/18/91	98	1205.	1204.265	1209.	1198.	12.934	3.596	1198.9	1202.	1207.5	1209.
72020p	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	01/24/72-10/18/91	98	1125.	1126.913	1209.	1034.	3404.315	58.347	1040.	1075.	1175.	1202.

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0076

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/24/72-10/18/91	77	49.2	50.668	75.5	41.6	63.639	7.977	42.5	45.1	53.2	61.18
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	01/24/72-10/18/91	77	1208.	1204.922	1209.	1197.	26.862	5.183	1197.	1198.	1209.	1209.
72020p	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	01/24/72-10/18/91	77	1125.	1122.273	1209.	1036.	3406.648	58.367	1040.	1075.	1175.	1200.

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0076

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/24/72-10/18/91	52	49.65	51.263	77.1	43.6	61.725	7.857	43.73	44.525	54.375	62.
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	01/24/72-10/18/91	52	1209.	1205.135	1209.	1197.	30.119	5.488	1197.	1197.	1209.	1209.
72020p	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	01/24/72-10/18/91	52	1125.	1121.038	1209.	1034.	3511.842	59.261	1039.3	1075.	1175.	1200.

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0076

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/30/78-09/13/90	84	10.95	12.189	26.3	5.1	22.356	4.728	6.05	9.025	15.225	19.85
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/24/72-10/18/91	7	46.9	47.3	52.3	45.5	5.197	2.28	**	**	**	**
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	01/24/72-10/18/91	91	1208.	1203.802	1209.	1195.	33.894	5.822	1197.	1197.	1209.	1209.
72020p	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	01/24/72-10/18/91	91	1125.	1122.352	1209.	1027.	3307.297	57.509	1043.2	1075.	1175.	1200.

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0076

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/30/78-09/13/90	95	9.7	9.512	21.3	3.5	20.52	4.53	4.	5.7	11.6	17.04
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	01/24/72-10/18/91	95	1207.	1204.179	1209.	1197.	23.914	4.89	1197.	1198.	1208.	1208.4
72020p	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	01/24/72-10/18/91	95	1125.	1120.916	1209.	1025.	3414.184	58.431	1045.2	1075.	1175.	1200.

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0076

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/30/78-09/13/90	94	10.1	10.998	23.2	6.2	13.935	3.733	7.3	8.375	12.6	16.
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	01/24/72-10/18/91	94	1206.	1204.117	1209.	1197.	22.9	4.785	1198.	1198.	1209.	1209.
72020p	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	01/24/72-10/18/91	94	1125.	1121.245	1209.	984.	3497.628	59.141	1045.	1075.	1175.	1200.

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0076

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/30/78-09/13/90	70	11.9	13.129	25.	9.	13.356	3.655	10.1	10.5	14.125	18.43
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	01/24/72-10/18/91	70	1208.	1205.557	1208.	1199.	13.902	3.729	1199.	1205.	1208.	1208.
72020p	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	01/24/72-10/18/91	70	1125.	1121.071	1208.	984.	3736.038	61.123	1042.3	1075.	1175.	1200.

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0076

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/30/78-09/13/90	87	10.5	10.984	24.	6.7	14.216	3.77	7.	8.	12.5	15.2
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	01/24/72-10/18/91	87	1204.	1203.552	1210.	1197.	22.087	4.7	1197.8	1199.	1209.	1210.
72020p	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	01/24/72-10/18/91	87	1125.	1117.816	1210.	982.	3786.384	61.534	1040.	1075.	1175.	1200.

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0076

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/30/78-09/13/90	94	8.3	9.105	22.6	6.1	9.189	3.031	6.75	7.8	9.45	11.
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	01/24/72-10/18/91	94	1209.	1207.085	1211.	1198.	17.025	4.126	1199.	1207.	1209.	1211.
72020p	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	01/24/72-10/18/91	94	1100.	1101.085	1211.	989.	5296.294	72.776	1000.	1025.	1175.	1200.

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0076

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/30/78-09/13/90	80	9.6	10.57	24.3	6.6	16.475	4.059	6.9	7.4	12.675	16.35
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	01/24/72-10/18/91	80	1206.	1203.463	1209.	1198.	24.885	4.988	1198.	1198.25	1209.	1209.
72020p	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	01/24/72-10/18/91	80	1100.	1100.188	1209.	990.	4922.661	70.162	1000.	1031.25	1168.75	1199.9

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

Annual Analysis for 1985 - Station WHIS0076

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/30/78-09/13/90	55	8.8	10.953	23.2	6.5	23.696	4.868	6.5	7.2	15.2	18.86
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	01/24/72-10/18/91	55	1207.	1203.182	1209.	1198.	22.929	4.788	1198.	1198.	1207.	1209.
72020p	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	01/24/72-10/18/91	55	1100.	1107.273	1209.	975.	4764.535	69.026	1000.	1050.	1175.	1200.

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

Annual Analysis for 1986 - Station WHIS0076

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/30/78-09/13/90	75	9.8	10.912	23.3	8.1	11.315	3.364	8.46	8.8	11.4	14.48
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	01/24/72-10/18/91	32	1209.	1206.15	1209.8	1199.	24.101	4.909	1199.	1199.	1209.8	1209.8
72020p	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	01/24/72-10/18/91	75	1100.	1095.864	1209.8	975.	5725.933	75.67	999.6	1025.	1175.	1200.

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

Annual Analysis for 1987 - Station WHIS0076

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/30/78-09/13/90	33	7.6	9.679	22.6	6.2	19.808	4.451	6.4	6.8	10.1	19.2
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	01/24/72-10/18/91	33	1208.	1203.727	1209.	1198.	28.33	5.323	1198.	1198.	1209.	1209.
72020p	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	01/24/72-10/18/91	33	1125.	1115.061	1209.	1017.	3589.621	59.913	1025.	1062.5	1175.	1199.2

** - 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 1988 - Station WHIS0076

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/30/78-09/13/90	84	10.7	11.642	25.2	5.9	20.808	4.562	6.9	9.9	12.3	19.85
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	01/24/72-10/18/91	84	1209.	1206.381	1209.	1198.	22.215	4.713	1198.	1209.	1209.	1209.
72020p	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	01/24/72-10/18/91	84	1100.	1096.024	1209.	975.	5622.409	74.983	1000.	1025.	1168.75	1200.

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0076

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/30/78-09/13/90	51	10.2	11.637	21.3	8.5	11.241	3.353	9.02	9.8	12.	17.96
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	01/24/72-10/18/91	51	1209.	1205.314	1209.	1198.	25.5	5.05	1198.	1199.	1209.	1209.
72020p	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	01/24/72-10/18/91	51	1100.	1098.51	1209.	975.	5498.695	74.153	1000.	1025.	1175.	1200.

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

Annual Analysis for 1990 - Station WHIS0076

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/30/78-09/13/90	66	9.15	11.359	25.3	6.4	25.829	5.082	6.84	7.2	13.45	20.92
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/24/72-10/18/91	27	51.3	50.226	60.7	43.2	21.389	4.625	44.	45.2	52.6	55.82
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	01/24/72-10/18/91	93	1209.	1203.387	1210.	1191.	48.175	6.941	1193.	1198.	1209.	1210.
72020p	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	01/24/72-10/18/91	93	1100.	1105.398	1210.	975.	4607.373	67.878	1010.	1050.	1175.	1200.

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

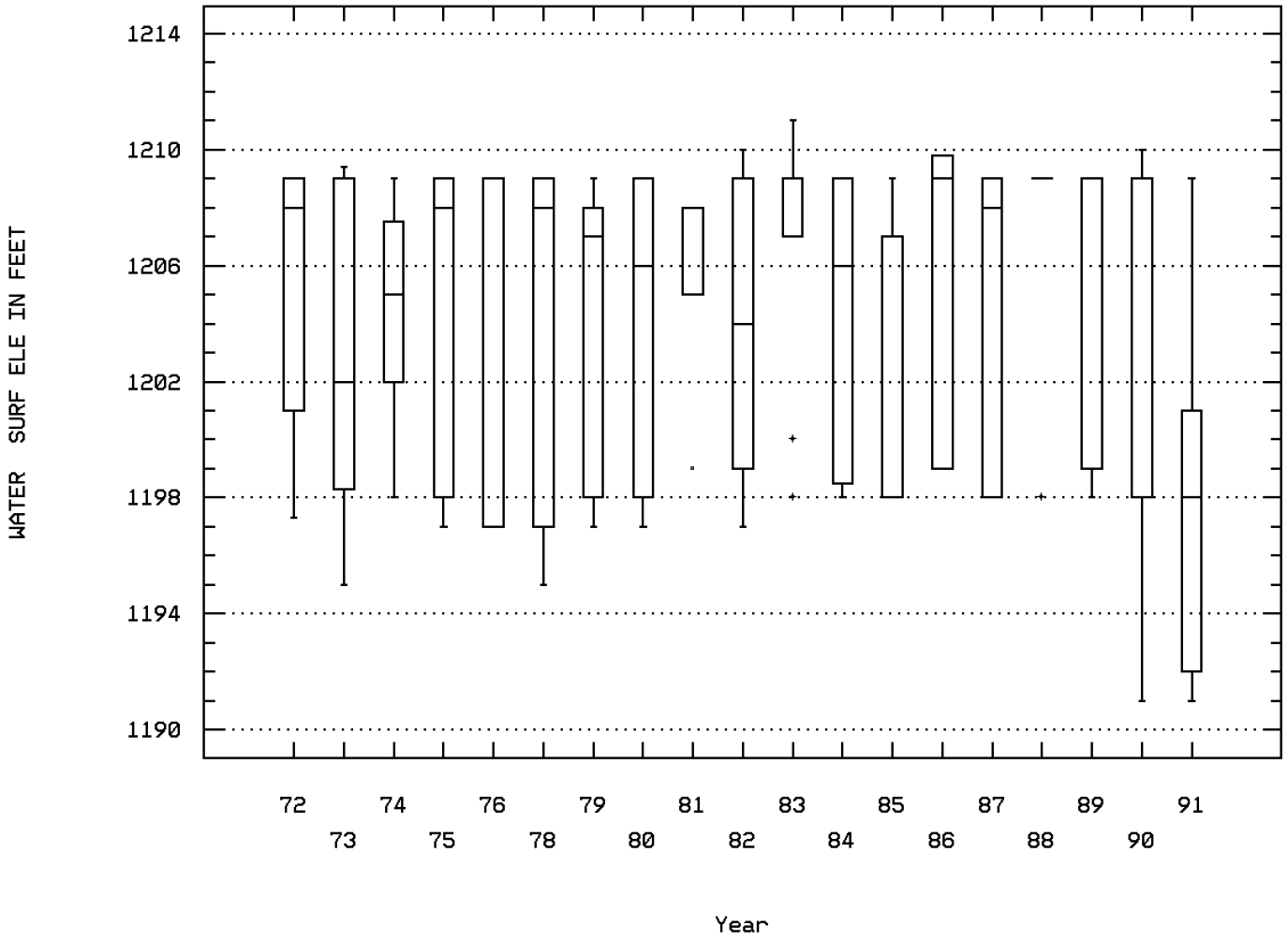
Annual Analysis for 1991 - Station WHIS0076

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/24/72-10/18/91	59	48.8	50.373	70.1	43.5	44.737	6.689	43.8	45.7	53.6	60.
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	01/24/72-10/18/91	59	1198.	1197.593	1209.	1191.	37.452	6.12	1191.	1192.	1201.	1209.
72020p	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	01/24/72-10/18/91	59	1125.	1113.254	1209.	1000.	3600.538	60.004	1025.	1050.	1175.	1198.

** - Less than 9 observations ## - Computed 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: WHIS0076 Parameter Code: 00062

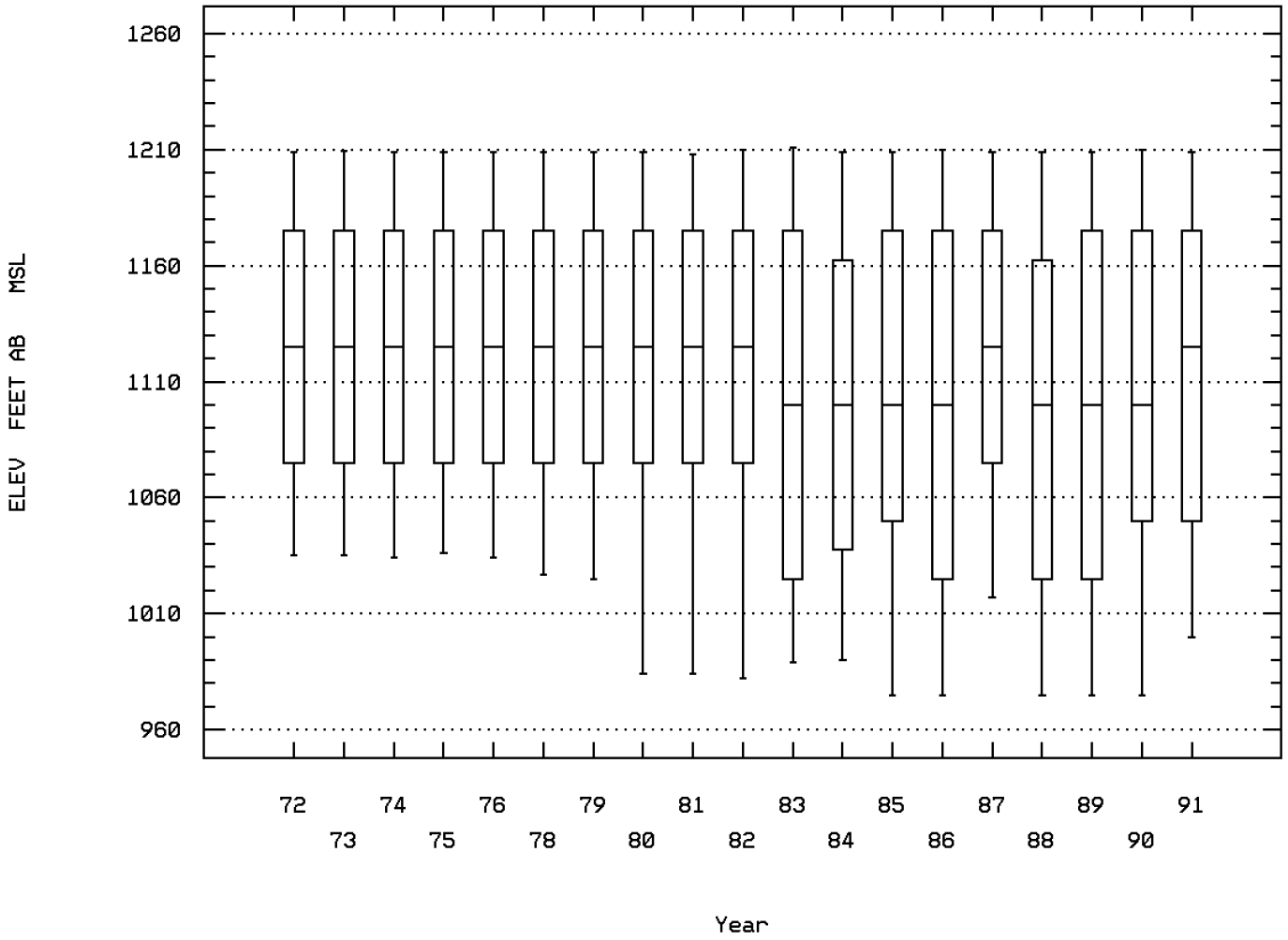
ELEVATION, RESERVOIR SURFACE WATER IN F



CLEAR CR 2 MI ABOVE WHISKEYTOWN D, WHIS

Station: WHIS0076 Parameter Code: 72020

ELEVATION IN FEET ABOVE MEAN SEA LEVEL



CLEAR CR 2 MI ABOVE WHISKEYTOWN D, WHIS

Seasonal Analysis for Season #1: 6/01 to 11/09 - Station WHIS0076

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/30/78-09/13/90	523	11.6	13.033	26.3	6.2	18.131	4.258	9.	10.1	14.5	20.66
00011p	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/24/72-10/18/91	224	52.65	55.371	77.2	47.7	53.738	7.331	48.95	50.4	56.675	67.85
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	01/24/72-10/18/91	714	1209.	1207.441	1210.	1192.	11.089	3.33	1202.	1208.	1209.	1209.
72020p	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	01/24/72-10/18/91	747	1125.	1115.399	1210.	975.	4440.429	66.637	1025.	1050.	1175.	1200.

** - Less than 9 observations ## - Computed 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: 11/10 to 2/20 - Station WHIS0076

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/30/78-09/13/90	192	7.55	7.867	12.5	3.5	3.222	1.795	6.1	6.8	8.7	10.3
00011p	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/24/72-10/18/91	138	44.5	45.271	53.3	41.4	7.371	2.715	42.29	43.425	46.9	49.51
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	01/24/72-10/18/91	320	1198.	1198.107	1207.	1191.	8.905	2.984	1195.	1197.	1199.	1201.
72020p	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	01/24/72-10/18/91	330	1100.	1108.881	1207.	984.	3682.889	60.687	1025.	1050.	1175.	1197.

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

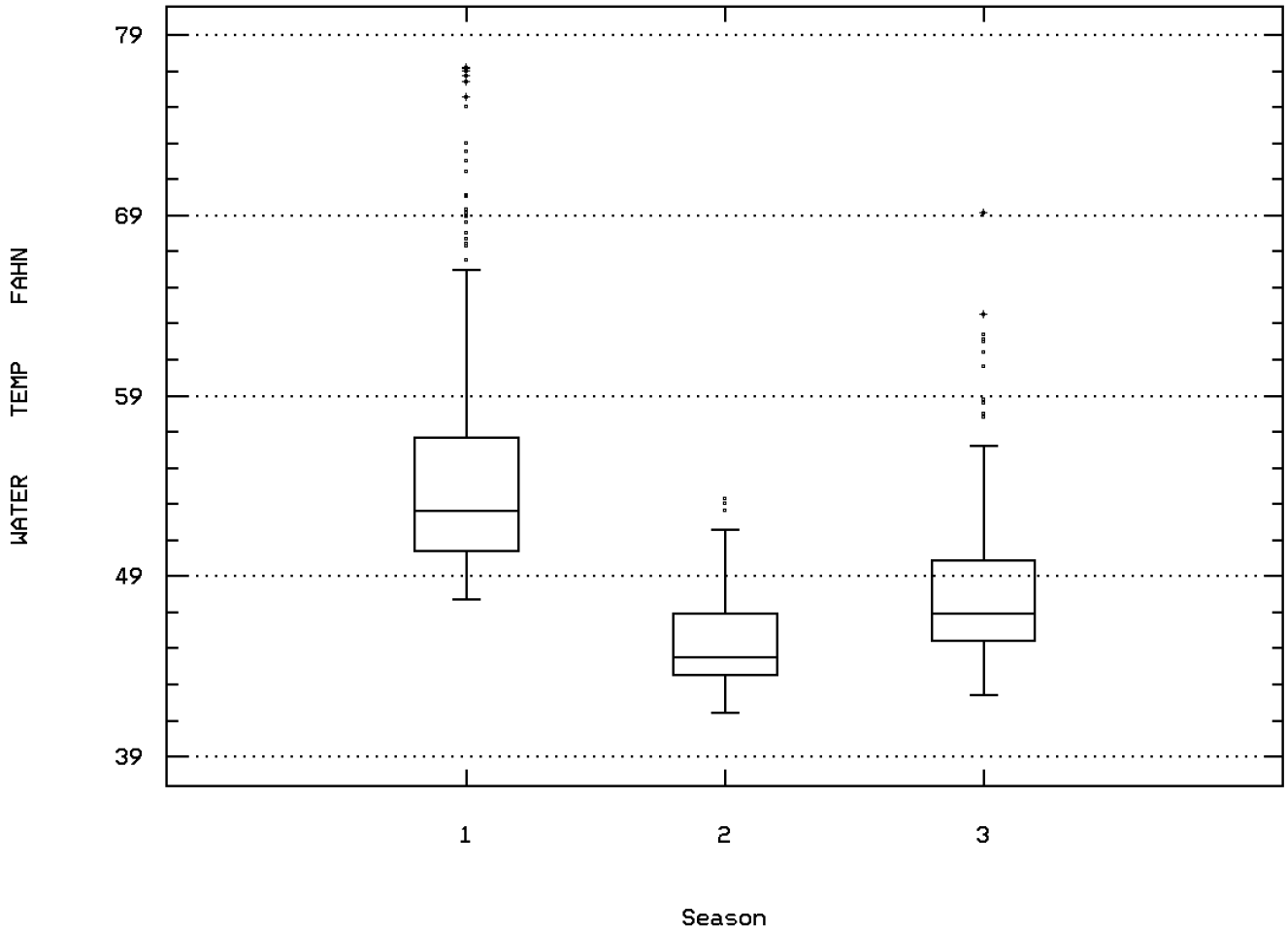
Seasonal Analysis for Season #3: 2/21 to 5/31 - Station WHIS0076

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/30/78-09/13/90	253	8.5	8.981	19.8	4.	8.183	2.861	6.08	7.2	9.9	13.
00011p	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/24/72-10/18/91	178	46.9	48.285	69.1	42.4	22.264	4.719	44.1	45.375	49.925	55.05
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	01/24/72-10/18/91	431	1205.	1203.504	1211.	1192.	25.441	5.044	1197.	1198.	1208.	1209.
72020p	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	01/24/72-10/18/91	431	1125.	1115.59	1211.	975.	3991.277	63.177	1035.2	1050.	1175.	1200.

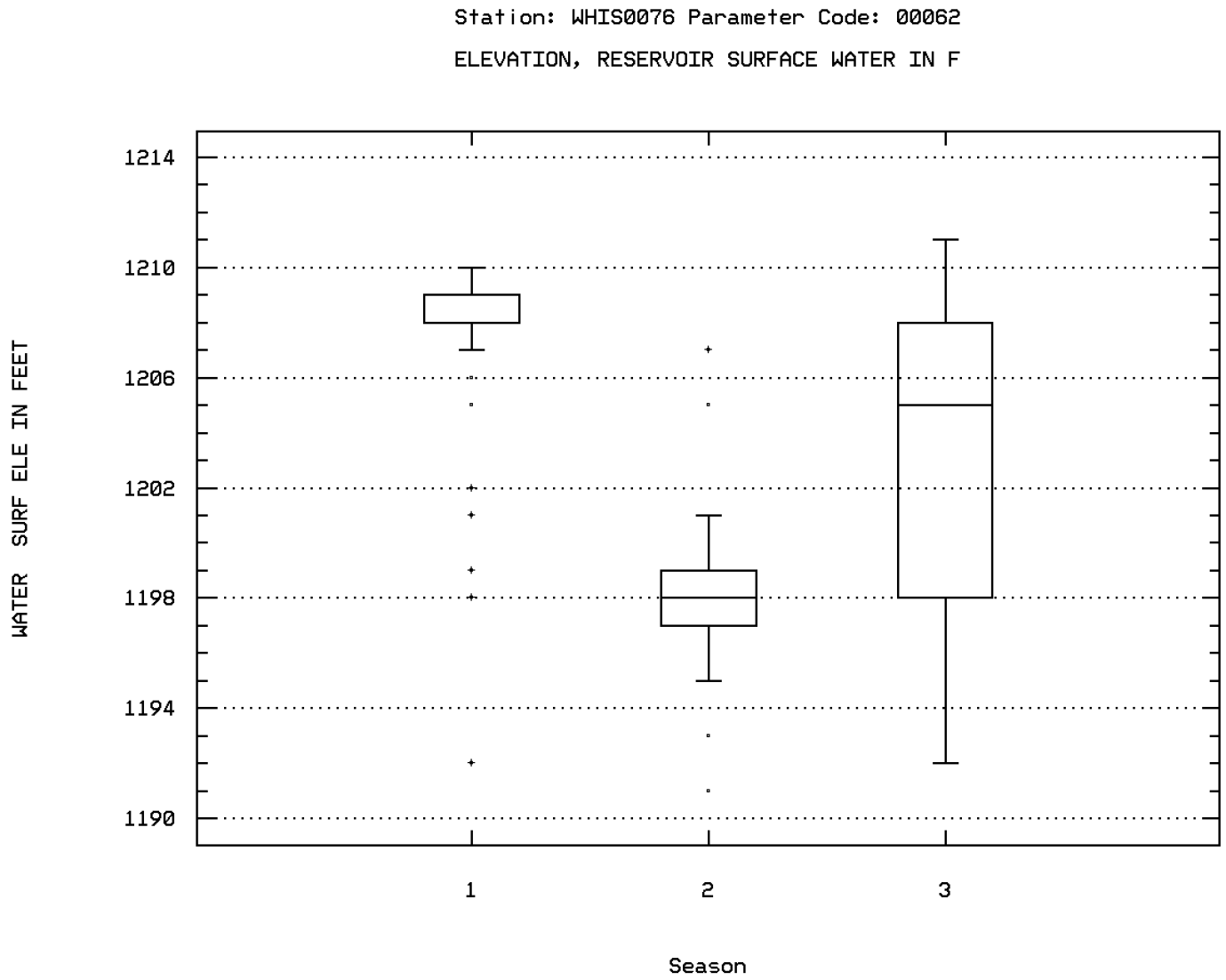
** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station: WHIS0076 Parameter Code: 00011

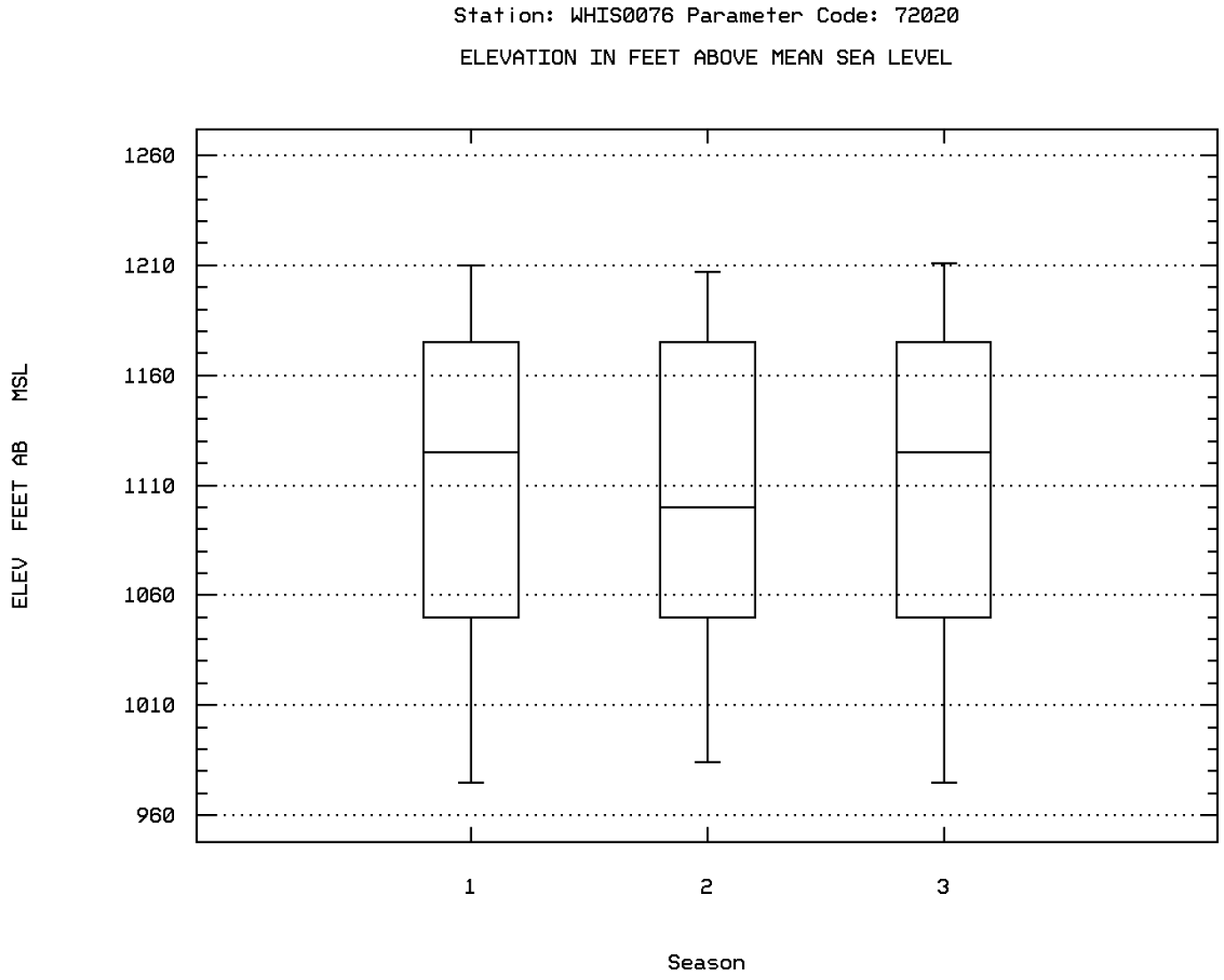
TEMPERATURE, WATER (DEGREES FAHRENHEIT)



CLEAR CR 2 MI ABOVE WHISKEYTOWN D, WHIS



CLEAR CR 2 MI ABOVE WHISKEYTOWN D, WHIS



CLEAR CR 2 MI ABOVE WHISKEYTOWN D, WHIS

Station Inventory for Station: WHIS0077

NPS Station ID: WHIS0077 LAT/LON: 40.625810/-122.580892 Agency: 11NPSWRD Date Created: 02/07/98
Location: COVE NEXT TO DRY CREEK GROUP CAMPGROUND FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /RESERV/TYPA/AMBNT STORET Station ID(s): WHIS_WQCB_22
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 Depth of Water: 0 Aquifer:
Major Basin: CALIFORNIA Elevation: 0 Water Body Id:
Minor Basin: SACRAMENTO RIVER ECO Region:
RF1 Index: 18020112 RF1 Mile Point: 0.000 Distance from RF1: 0.80 On/Off RF1:
RF3 Index: 18010211001600.95 RF3 Mile Point: 5.98 Distance from RF3: 0.04 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE WHISKEYTOWN-CA SHASTA COUNTY 7.5 MINUTE (TOPOGRAPHIC) QUADRANGLE. THE SITE IS DESCRIBED BY THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD (WQCB) AS "COVE NEXT TO DRY CREEK GROUP CAMPGROUND." THE SITE IS LOCATED AT WHISKEYTOWN LAKE INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA ARE FROM FOUR BACTERIOLOGICAL SURVEYS PERFORMED BY THE WQCB IN 1986; 1987; 1990 AND 1991. FOR MORE INFORMATION ON THE BACTERIOLOGICAL SURVEYS CONTACT THE WQCB; 415 KNOLLCREST DR. SUITE 100; REDDING CA 9600 (TEL 916-224-4845). FOR MORE INFORMATION ON THE WHISKEYTOWN UNIT OF THE PARK CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; P.O. BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0077

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/17/91-07/17/91	2	29.	29.	43.	15.	392.	19.799	**	**	**	**
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	07/17/91-07/17/91	2	1.405	1.405	1.633	1.176	0.105	0.323	**	**	**	**
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			25.397								
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/17/91-07/17/91	2	6.5	6.5	9.	4.	12.5	3.536	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/17/91-07/17/91	2	0.778	0.778	0.954	0.602	0.062	0.249	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			6.								

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

EPA Water Quality Criteria Analysis for Station: WHIS0077

				Total	Exceed	Prop.	----------6/01-11/09----------			----------11/10-2/20----------			----------2/21-5/31----------			--------------n/a--------------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	2	0	0.00	2	0	0.00									
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	Other-Hi Lim.	200.	2	0	0.00	2	0	0.00									

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

Station Inventory for Station: WHIS0078

NPS Station ID: WHIS0078 LAT/LON: 40.626392/-122.468616 Agency: 113BUREC Date Created: 02/22/92
Location: SPRING CREEK MIXTURE OF SPILL AND OUTLET WATERS FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): CRSPRI /SH38
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 18020112 Depth of Water: 0 Aquifer:
Major Basin: CALIFORNIA Elevation: 0 Water Body Id:
Minor Basin: SACRAMENTO RIVER ECO Region:
RF1 Index: 18020112 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 18020112000304.54 RF3 Mile Point: 5.11 Distance from RF3: 0.03 On/Off RF3:
Description:
SAMPLE IS COLLECTED AT SPRING CREEK APPROXIMATELY 100 FEET DOWNSTREAM OF IRON MOUNTAIN ROAD.

Parameter Inventory for Station: WHIS0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	02/15/86-04/07/89	16	833.	783.938	1143.	63.	102071.929	319.487	114.1	698.	1021.	1132.5
00403	PH, LAB, STANDARD UNITS SU	02/15/86-03/20/93	131	3.3	3.336	3.8	3.1	0.019	0.136	3.2	3.2	3.4	3.5
00403	CONVERTED PH, LAB, STANDARD UNITS	02/15/86-03/20/93	131	3.3	3.315	3.8	3.1	0.019	0.138	3.2	3.2	3.4	3.5
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/15/86-03/20/93	131	501.187	483.973	794.328	158.489	22146.231	148.816	316.228	398.107	630.957	630.957
01042	COPPER, TOTAL (UG/L AS CU)	02/15/86-03/20/93	131	1190.	1246.122	2250.	500.	177054.57	420.779	600.	990.	1600.	1854.
01092	ZINC, TOTAL (UG/L AS ZN)	02/15/86-03/20/93	131	4100.	4677.71	10680.	1700.	4483813.177	2117.502	2420.	2860.	6080.	8236.

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

EPA Water Quality Criteria Analysis for Station: WHIS0078

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00403	PH, LAB	Fresh Chronic	9.	131	0	0.00				17	0	0.00	114	0	0.00			
		Other-Lo Lim.	6.5	131	131	1.00				17	17	1.00	114	114	1.00			
01042	COPPER, TOTAL	Fresh Acute	18.	131	131	1.00				17	17	1.00	114	114	1.00			
		Drinking Water	1300.	131	56	0.43				17	0	0.00	114	56	0.49			
01092	ZINC, TOTAL	Fresh Acute	120.	131	131	1.00				17	17	1.00	114	114	1.00			
		Drinking Water	5000.	131	48	0.37				17	0	0.00	114	48	0.42			

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

Seasonal Analysis for Season #2: 11/10 to 2/20 - Station WHIS0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403	PH, LAB, STANDARD UNITS SU	02/15/86-03/20/93	17	3.2	3.235	3.5	3.1	0.014	0.117	3.1	3.15	3.3	3.42
00403	CONVERTED PH, LAB, STANDARD UNITS	02/15/86-03/20/93	17	3.2	3.221	3.5	3.1	0.014	0.118	3.1	3.15	3.3	3.42
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/15/86-03/20/93	17	630.957	600.589	794.328	316.228	21818.528	147.711	381.731	501.187	712.643	794.328
01042	COPPER, TOTAL (UG/L AS CU)	02/15/86-03/20/93	17	600.	636.471	1060.	500.	28161.765	167.815	500.	550.	600.	1060.
01092	ZINC, TOTAL (UG/L AS ZN)	02/15/86-03/20/93	17	2500.	2458.824	2900.	1700.	88711.029	297.844	1860.	2395.	2700.	2820.

** - Less than 9 observations ## - Computed 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: 2/21 to 5/31 - Station WHIS0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403	PH, LAB, STANDARD UNITS SU	02/15/86-03/20/93	114	3.4	3.351	3.8	3.1	0.018	0.133	3.2	3.3	3.4	3.5
00403	CONVERTED PH, LAB, STANDARD UNITS	02/15/86-03/20/93	114	3.4	3.331	3.8	3.1	0.018	0.135	3.2	3.3	3.4	3.5
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/15/86-03/20/93	114	398.107	466.583	794.328	158.489	20037.612	141.554	316.228	398.107	501.187	630.957
01042	COPPER, TOTAL (UG/L AS CU)	02/15/86-03/20/93	114	1280.	1337.035	2250.	500.	135449.574	368.035	941.	1082.5	1622.5	1885.
01092	ZINC, TOTAL (UG/L AS ZN)	02/15/86-03/20/93	114	4395.	5008.596	10680.	1960.	4294656.42	2072.355	2695.	3210.	6342.5	8390.

** - Less than 9 observations ## - Computed 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: WHIS0079

NPS Station ID: WHIS0079 | LAT/LON: 40.627615/-122.564920 | Agency: 11NPSWRD | Date Created: 02/07/98
Location: BACKGROUND NEAR BRANDY CREEK | FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /RESERV/TYPA/AMBNT | STORET Station ID(s): WHIS_WQCB_15
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 | Depth of Water: 0 | Aquifer:
Major Basin: CALIFORNIA | Elevation: 0 | Water Body Id:
Minor Basin: SACRAMENTO RIVER | ECO Region:
RF1 Index: 18020112 | RF1 Mile Point: 0.000 | Distance from RF1: 0.80 | On/Off RF1:
RF3 Index: 18010211001600.95 | RF3 Mile Point: 5.98 | Distance from RF3: 0.04 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE WHISKEYTOWN-CA SHASTA COUNTY 7.5 MINUTE (TOPOGRAPHIC) QUADRANGLE. THE SITE IS DESCRIBED BY THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD (WQCB) AS "BACKGROUND NEAR BRANDY CREEK." THE SITE IS LOCATED NEAR THE MIDDLE OF WHISKEYTOWN LAKE; JUST NORTH OF THE BRANDY CREEK AREA INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA ARE FROM FOUR BACTERIOLOGICAL SURVEYS PERFORMED BY THE WQCB IN 1986; 1987; 1990 AND 1991. FOR MORE INFORMATION ON THE BACTERIOLOGICAL SURVEYS CONTACT THE WQCB; 415 KNOLLCREST DR. SUITE 100; REDDING CA 96002 (TEL 916-224-4845). FOR MORE INFORMATION ON THE WHISKEYTOWN UNIT OF THE PARK CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; P.O. BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0079

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/15/86-07/07/87	3	7.	7.833	15.	1.5	46.083	6.788	**	**	**	**
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	07/15/86-07/07/87	3	0.845	0.732	1.176	0.176	0.26	0.509	**	**	**	**
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			5.4								
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/15/86-07/07/87	3 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/15/86-07/07/87	3 ##	0.176	0.176	0.176	0.176	0.	0.	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			1.5								

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

EPA Water Quality Criteria Analysis for Station: WHIS0079

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	3	0	0.00	3	0	0.00									
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	Other-Hi Lim.	200.	3	0	0.00	3	0	0.00									

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

Station Inventory for Station: WHIS0080

NPS Station ID: WHIS0080 | LAT/LON: 40.628753/-122.579892 | Agency: 11NPSWRD | Date Created: 02/07/98
Location: PICNIC AREA ON SOUTHWEST SHORE | FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /RESERV/TYPA/AMBNT | STORET Station ID(s): WHIS_WQCB_23
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 | Depth of Water: 0 | Aquifer:
Major Basin: CALIFORNIA | Elevation: 0 | Water Body Id:
Minor Basin: SACRAMENTO RIVER | ECO Region:
RF1 Index: 18020112 | RF1 Mile Point: 0.000 | Distance from RF1: 0.80 | On/Off RF1:
RF3 Index: 18010211001600.95 | RF3 Mile Point: 5.98 | Distance from RF3: 0.04 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE WHISKEYTOWN-CA SHASTA COUNTY 7.5 MINUTE (TOPOGRAPHIC) QUADRANGLE. THE SITE IS DESCRIBED BY THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD (WQCB) AS "PICNIC AREA ON SOUTHWEST SHORE." THE SITE IS LOCATED AT WHISKEYTOWN LAKE IN A COVE JUST NORTH OF THE DRY CREEK CAMPGROUND INSIDE THE WHISKEYTOWN-SHASTA- TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA ARE FROM FOUR BACTERIOLOGICAL SURVEYS PERFORMED BY THE WQCB IN 1986; 1987; 1990 AND 1991. FOR MORE INFORMATION ON THE BACTERIOLOGICAL SURVEYS CONTACT THE WQCB; 415 KNOLLCREST DR. SUITE 100; REDDING CA 96002 (TEL 916-224-4845). FOR MORE INFORMATION ON THE PARK'S WHISKEYTOWN UNIT CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; P.O. BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0080

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/17/91-07/17/91	2	13.	13.	15.	11.	8.	2.828	**	**	**	**
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	07/17/91-07/17/91	2	1.109	1.109	1.176	1.041	0.009	0.095	**	**	**	**
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			12.845								
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/17/91-07/17/91	2 ##	5.25	5.25	9.	1.5	28.125	5.303	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/17/91-07/17/91	2 ##	0.565	0.565	0.954	0.176	0.303	0.55	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			3.674								

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

EPA Water Quality Criteria Analysis for Station: WHIS0080

				Total	Exceed	Prop.	----------6/01-11/09----------			----------11/10-2/20----------			----------2/21-5/31----------			--------------n/a--------------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	2	0	0.00	2	0	0.00									
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	Other-Hi Lim.	200.	2	0	0.00	2	0	0.00									

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

Station Inventory for Station: WHIS0081

NPS Station ID: WHIS0081 | LAT/LON: 40.629170/-122.480560 | Agency: 113BUREC | Date Created: / /
Location: SPRING CR POWER PLANT TAILRACE | FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): 052608 /SA15
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 18020112 | Depth of Water: 20 | Aquifer:
Major Basin: SACRAMENTO VALLEY | Elevation: 0 | Water Body Id:
Minor Basin: | ECO Region:
RF1 Index: 18020112003 | RF1 Mile Point: 1.600 | Distance from RF1: 2.90 | On/Off RF1: OFF
RF3 Index: 18020101000201.12 | RF3 Mile Point: 3.21 | Distance from RF3: 0.04 | On/Off RF3:
Description:
LONGITUDE - 122 28 05 LATITUDE - 40 37 45 MONITORING STATION FOR BUREAU OF RECLAMATION.
DESCRIPTION - LOCATED ON SPRING CREEK POWER PLANT TAILRACE. SAMPLING POINT - LOCATED FROM THE AFTERBAY OF THE SPRING CREEK POWER PLANT TAILRACE. SAMPLES COLLECTED BY SHASTA FIELD OFFICE IN REDDING CALIFORNIA.
ANALYSIS MADE BY MCCLELLAN AFB LAB FOR HEAVY METALS.

Parameter Inventory for Station: WHIS0081

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01027	CADMIUM, TOTAL (UG/L AS CD)	03/11/75-10/13/78	20 ##	5.	7.925	25.	0.5	61.691	7.854	1.	5.	10.	25.
01040	COPPER, DISSOLVED (UG/L AS CU)	02/12/73-09/11/73	3	4.	6.667	14.	2.	41.333	6.429	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	01/09/73-04/06/79	47	2.	3.745	20.	0.	26.846	5.181	1.	1.	4.	15.2
01090	ZINC, DISSOLVED (UG/L AS ZN)	02/12/73-09/11/73	3	3.	4.	6.	3.	3.	1.732	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	01/09/73-04/06/79	47	2.	9.064	110.	1.	389.365	19.732	1.	1.	6.	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 time series plot

EPA Water Quality Criteria Analysis for Station: WHIS0081

				Total	Exceed	Prop.	6/01-11/09			11/10-2/20			2/21-5/31			n/a		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
01027	CADMIUM, TOTAL	Fresh Acute	3.9	7 &	3	0.43	3	3	1.00	1	0	0.00	3	0	0.00			
		Drinking Water	5.	7 &	3	0.43	3	3	1.00	1	0	0.00	3	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	3	0	0.00	2	0	0.00	1	0	0.00						
		Drinking Water	1300.	3	0	0.00	2	0	0.00	1	0	0.00						
01042	COPPER, TOTAL	Fresh Acute	18.	47	2	0.04	22	0	0.00	8	0	0.00	17	2	0.12			
		Drinking Water	1300.	47	0	0.00	22	0	0.00	8	0	0.00	17	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	3	0	0.00	2	0	0.00	1	0	0.00						
		Drinking Water	5000.	3	0	0.00	2	0	0.00	1	0	0.00						
01092	ZINC, TOTAL	Fresh Acute	120.	47	0	0.00	22	0	0.00	8	0	0.00	17	0	0.00			
		Drinking Water	5000.	47	0	0.00	22	0	0.00	8	0	0.00	17	0	0.00			

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

Seasonal Analysis for Season #1: 6/01 to 11/09 - Station WHIS0081

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01042	COPPER, TOTAL (UG/L AS CU)	01/09/73-04/06/79	22 ##	1.	1.409	5.	0.	1.015	1.008	1.	1.	2.	2.7
01092	ZINC, TOTAL (UG/L AS ZN)	01/09/73-04/06/79	22	2.	7.273	60.	1.	292.684	17.108	1.	1.	3.25	43.5

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

Seasonal Analysis for Season #2: 11/10 to 2/20 - Station WHIS0081

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01042	COPPER, TOTAL (UG/L AS CU)	01/09/73-04/06/79	8	2.	3.875	17.	1.	28.982	5.384	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	01/09/73-04/06/79	8	2.	2.75	6.	1.	3.071	1.753	**	**	**	**

** - Less than 9 observations ## - Computed 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: 2/21 to 5/31 - Station WHIS0081

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01042	COPPER, TOTAL (UG/L AS CU)	01/09/73-04/06/79	17	4.	6.706	20.	1.	46.346	6.808	1.	1.	12.5	20.
01092	ZINC, TOTAL (UG/L AS ZN)	01/09/73-04/06/79	17	7.	14.353	110.	1.	679.868	26.074	1.	1.	18.	42.

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

Station Inventory for Station: WHIS0082

NPS Station ID: WHIS0082 LAT/LON: 40.629449/-122.470282 Agency: 113BUREC Date Created: 01/03/87
Location: SPRING CREEK AT SPRING CREEK DEBRIS DAM OUTLET FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): CRSPROUT /SPCKOUTLET /SH18
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 18020112 Depth of Water: 0 Aquifer:
Major Basin: CALIFORNIA Elevation: 0 Water Body Id:
Minor Basin: SACRAMENTO RIVER ECO Region:
RF1 Index: 18020112 RF1 Mile Point: 0.000 Distance from RF1: 0.90 On/Off RF1:
RF3 Index: 18020101001712.46 RF3 Mile Point: 12.46 Distance from RF3: 0.01 On/Off RF3:
Description:
SPRING CREEK AT THE SPRING CREEK DEBRIS DAM OUTLET WORKS

Parameter Inventory for Station: WHIS0082

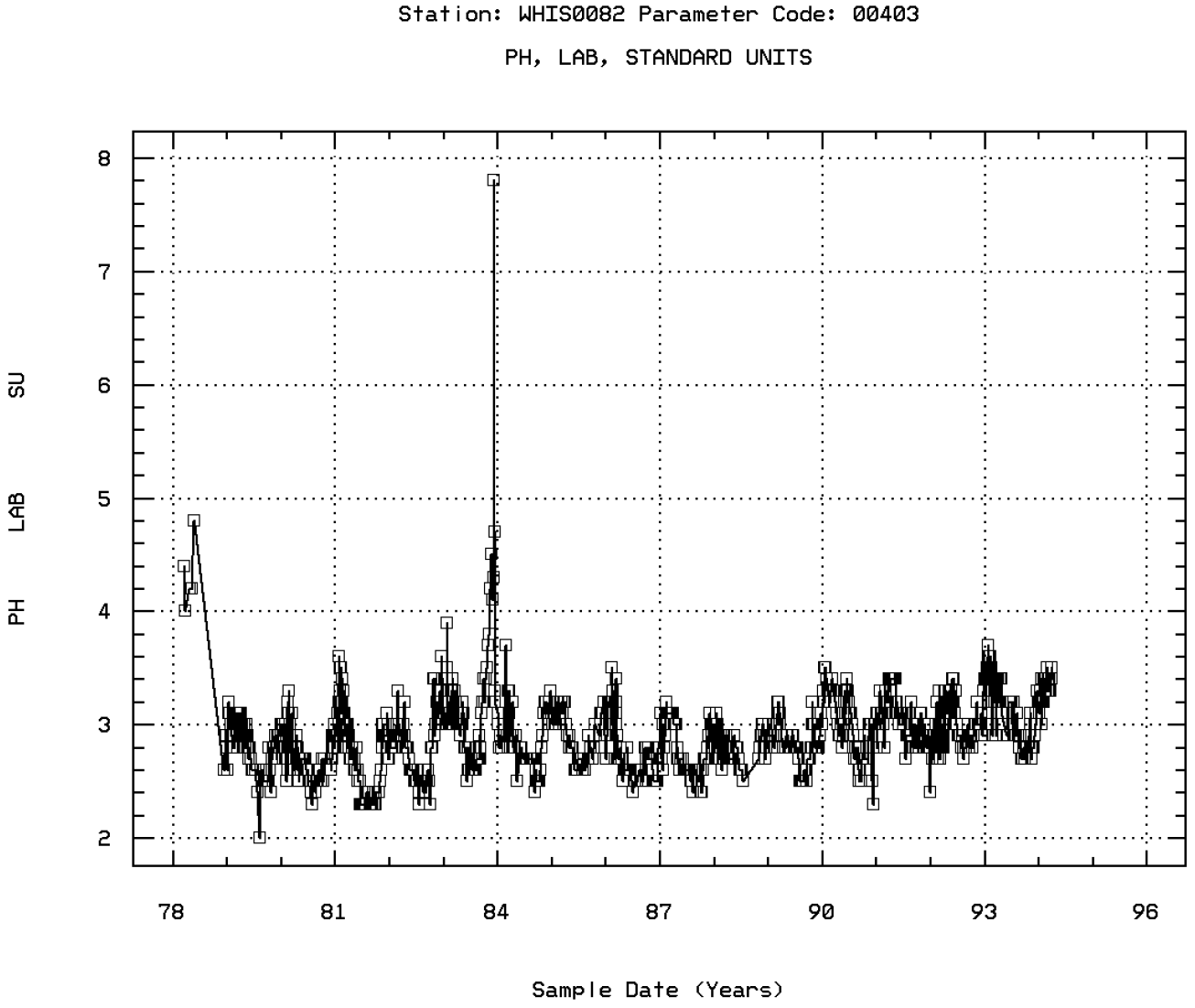
Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/04/69-03/31/94	1823	25.	62.23	782.	0.	13923.699	117.999	0.	5.	55.	150.
00403p	PH, LAB, STANDARD UNITS SU	03/17/78-03/31/94	1249	2.9	2.964	7.8	2.	0.109	0.33	2.6	2.8	3.1	3.3
00403p	CONVERTED PH, LAB, STANDARD UNITS	03/17/78-03/31/94	1249	2.9	2.868	7.8	2.	0.118	0.343	2.6	2.8	3.1	3.3
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/78-03/31/94	1249	1258.925	1355.722	10000.	0.016	851972.685	923.024	501.187	794.328	1584.893	2511.886
01042p	COPPER, TOTAL (UG/L AS CU)	03/24/69-03/31/94	2657	3680.	5353.638	64900.	2.	27245071.545	5219.681	1300.	1940.	6600.	12300.
01092p	ZINC, TOTAL (UG/L AS ZN)	02/02/70-03/31/94	1699	14200.	24312.54	110000.	5.	558292042.127	23628.204	4100.	6500.	35800.	62250.

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

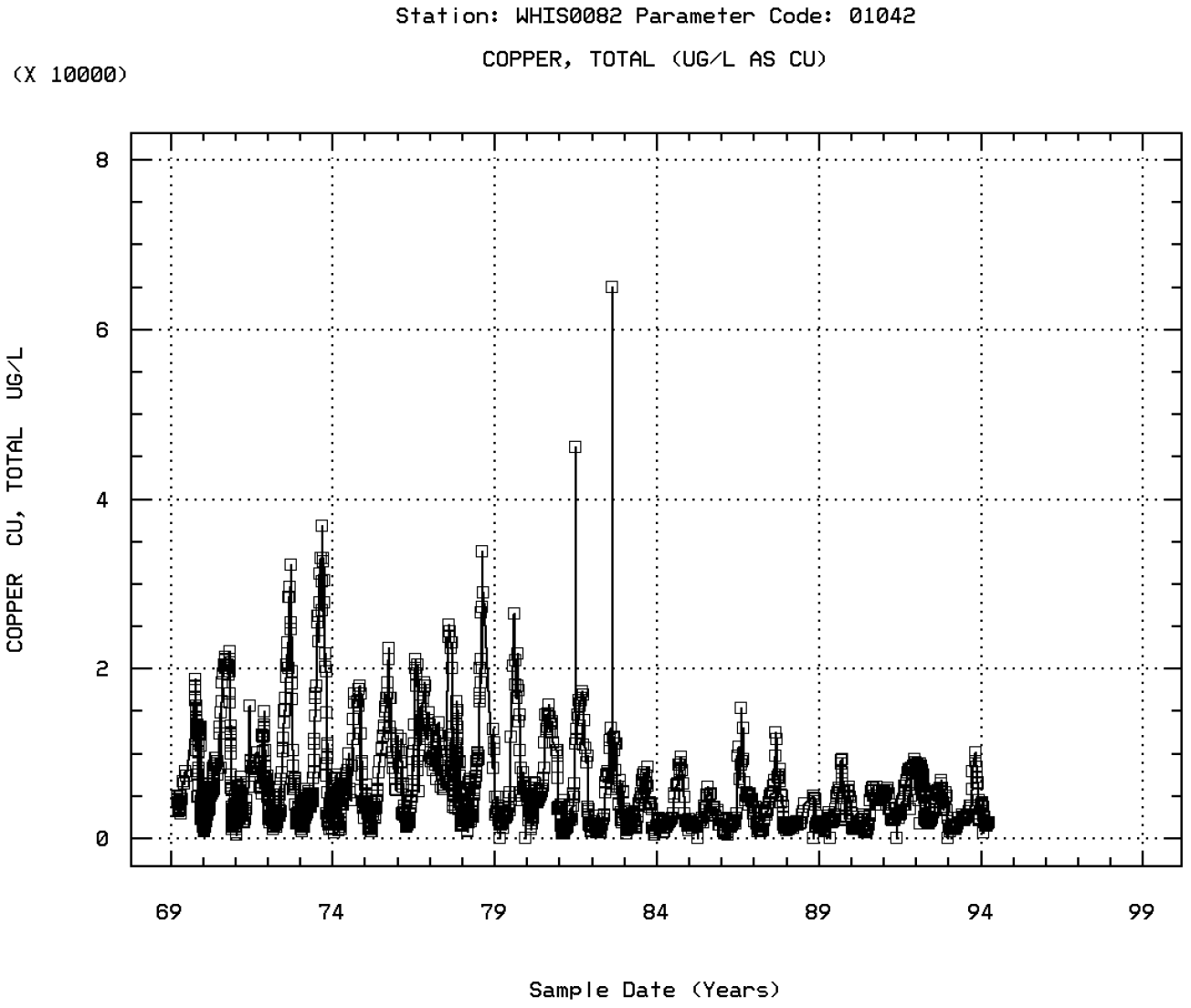
EPA Water Quality Criteria Analysis for Station: WHIS0082

Parameter				Total	Exceed	Prop.	----------6/01-11/09----------			----------11/10-2/20----------			----------2/21-5/31----------			----------n/a----------		
		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00403	PH, LAB	Fresh Chronic	9.	1249	0	0.00	332	0	0.00	421	0	0.00	496	0	0.00			
		Other-Lo Lim.	6.5	1249	1248	1.00	332	332	1.00	421	420	1.00	496	496	1.00			
01042	COPPER, TOTAL	Fresh Acute	18.	2657	2651	1.00	700	698	1.00	996	994	1.00	961	959	1.00			
		Drinking Water	1300.	2657	2396	0.90	700	684	0.98	996	841	0.84	961	871	0.91			
01092	ZINC, TOTAL	Fresh Acute	120.	1699	1696	1.00	519	518	1.00	554	553	1.00	626	625	1.00			
		Drinking Water	5000.	1699	1411	0.83	519	507	0.98	554	398	0.72	626	506	0.81			

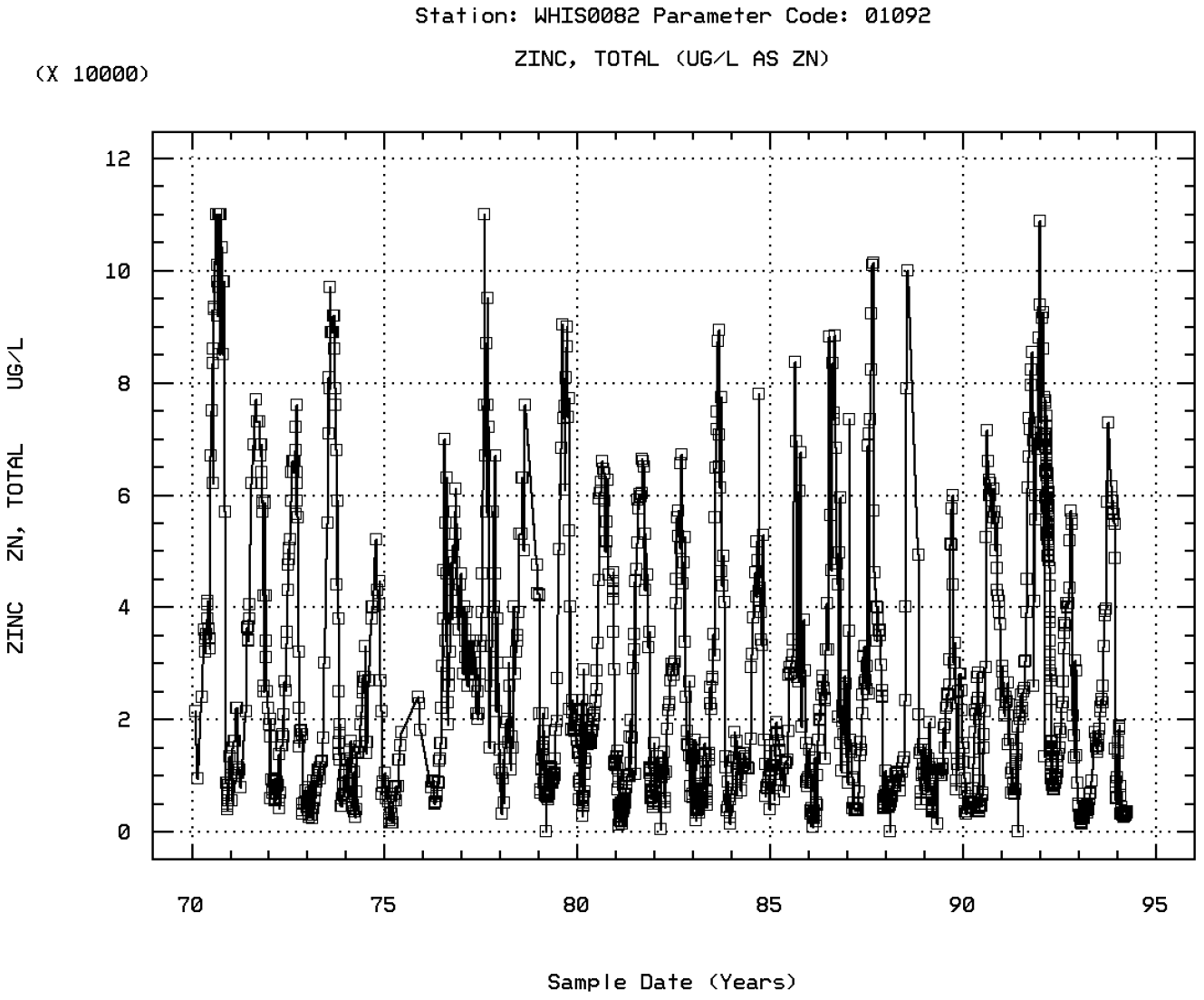
& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter



SPRING CREEK AT SPRING CREEK DEBRIS DAM



SPRING CREEK AT SPRING CREEK DEBRIS DAM



SPRING CREEK AT SPRING CREEK DEBRIS DAM

Annual Analysis for 1969 - Station WHIS0082

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/04/69-03/31/94	99	3.	57.111	350.	3.	10115.141	100.574	3.	3.	70.	250.
01042p	COPPER, TOTAL (UG/L AS CU)	03/24/69-03/31/94	144	9150.	8755.347	18700.	2180.	25382134.144	5038.068	2780.	3685.	13000.	15100.

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0082

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/04/69-03/31/94	200	70.	153.145	708.	2.	39617.481	199.041	14.1	35.	150.	500.
01042p	COPPER, TOTAL (UG/L AS CU)	03/24/69-03/31/94	242	5130.	6784.463	22000.	850.	35329949.295	5943.9	1740.	2775.	7500.	19700.
01092p	ZINC, TOTAL (UG/L AS ZN)	02/02/70-03/31/94	49	38000.	51783.673	110000.	3950.	1541725144.558	39264.808	5500.	9000.	93250.	104000.

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0082

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/04/69-03/31/94	57	10.	34.175	400.	0.25	3801.395	61.655	0.25	4.	50.	75.
01042p	COPPER, TOTAL (UG/L AS CU)	03/24/69-03/31/94	159	5220.	5587.296	15600.	400.	9762229.982	3124.457	1900.	3000.	7100.	10100.
01092p	ZINC, TOTAL (UG/L AS ZN)	02/02/70-03/31/94	66	34100.	37829.697	77000.	5500.	548111067.599	23411.772	9920.	16200.	62000.	70200.

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0082

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/04/69-03/31/94	115	25.	36.426	150.	2.	1141.036	33.779	2.	10.	50.	77.
01042p	COPPER, TOTAL (UG/L AS CU)	03/24/69-03/31/94	166	2825.	5553.313	32200.	1080.	40560905.926	6368.744	1800.	2180.	5800.	15490.
01092p	ZINC, TOTAL (UG/L AS ZN)	02/02/70-03/31/94	83	16800.	24626.506	76000.	3200.	488509105.936	22102.242	5440.	6900.	43000.	64000.

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0082

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/04/69-03/31/94	200	55.	103.985	606.	3.	17095.593	130.75	5.	35.	150.	249.
01042p	COPPER, TOTAL (UG/L AS CU)	03/24/69-03/31/94	203	4100.	6290.493	36800.	850.	55272216.588	7434.529	1700.	2600.	5050.	16800.
01092p	ZINC, TOTAL (UG/L AS ZN)	02/02/70-03/31/94	57	11400.	30677.018	97000.	2300.	1091534517.732	33038.379	4200.	6500.	63500.	89000.

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0082

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/04/69-03/31/94	88	40.	80.409	600.	3.	17434.107	132.038	8.7	20.	70.	202.
01042p	COPPER, TOTAL (UG/L AS CU)	03/24/69-03/31/94	99	5200.	5923.434	18000.	660.	16398924.82	4049.559	1900.	3500.	7000.	12300.
01092p	ZINC, TOTAL (UG/L AS ZN)	02/02/70-03/31/94	46	14900.	18971.739	52000.	2600.	161348294.686	12702.295	4620.	8825.	27000.	40150.

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0082

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/04/69-03/31/94	90	30.	83.478	500.	2.	12783.241	113.063	4.	10.	65.	250.
01042p	COPPER, TOTAL (UG/L AS CU)	03/24/69-03/31/94	93	3720.	5828.71	22400.	800.	26298298.317	5128.187	1310.	2250.	8000.	15288.
01092p	ZINC, TOTAL (UG/L AS ZN)	02/02/70-03/31/94	25	7900.	8828.	24000.	1500.	41667100.	6455.006	1840.	3800.	12800.	19920.

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0082

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/04/69-03/31/94	75	10.	14.253	35.	0.	151.543	12.31	2.	5.	25.	35.
01042p	COPPER, TOTAL (UG/L AS CU)	03/24/69-03/31/94	79	6300.	7895.316	21100.	1360.	33825973.937	5816.01	1840.	2730.	12100.	17400.
01092p	ZINC, TOTAL (UG/L AS ZN)	02/02/70-03/31/94	44	30750.	30045.455	70000.	5000.	368138350.951	19186.932	6200.	9000.	46000.	56000.

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0082

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/04/69-03/31/94	128	5.	9.117	35.	1.	59.742	7.729	5.	5.	11.	25.
01042p	COPPER, TOTAL (UG/L AS CU)	03/24/69-03/31/94	130	8840.	8776.	25100.	1460.	24627793.178	4962.64	2324.	5680.	10212.5	13580.
01092p	ZINC, TOTAL (UG/L AS ZN)	02/02/70-03/31/94	54	33000.	38814.815	110000.	11000.	422540531.097	20555.791	21000.	28000.	40000.	74000.

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0082

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/04/69-03/31/94	89	38.	88.978	600.	8.	16569.204	128.721	10.	21.	106.	170.
00403p	PH, LAB, STANDARD UNITS SU	03/17/78-03/31/94	7	4.2	3.829	4.8	2.6	0.766	0.875	**	**	**	**
00403p	CONVERTED PH, LAB, STANDARD UNITS	03/17/78-03/31/94	7	4.2	3.12	4.8	2.6	1.351	1.162	**	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/78-03/31/94	7	63.096	757.946	2511.886	15.849	1436261.19	1198.441	**	**	**	**
01042p	COPPER, TOTAL (UG/L AS CU)	03/24/69-03/31/94	94	3935.	6887.128	33800.	850.	48016298.113	6929.379	2000.	2380.	8325.	17700.
01092p	ZINC, TOTAL (UG/L AS ZN)	02/02/70-03/31/94	31	26000.	29496.774	76000.	3200.	362864322.581	19048.998	9700.	15000.	42500.	61000.

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0082

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/04/69-03/31/94	8	40.	56.375	151.	20.	1756.268	41.908	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	03/17/78-03/31/94	85	2.9	2.847	3.2	2.	0.043	0.209	2.5	2.8	3.	3.1
00403p	CONVERTED PH, LAB, STANDARD UNITS	03/17/78-03/31/94	85	2.9	2.786	3.2	2.	0.047	0.217	2.5	2.8	3.	3.1
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/78-03/31/94	85	1258.925	1635.44	10000.	630.957	1421431.535	1192.238	794.328	1000.	1584.893	3162.278
01042p	COPPER, TOTAL (UG/L AS CU)	03/24/69-03/31/94	91	2850.	5198.	26400.	2.	29233577.511	5406.808	1700.	2100.	5430.	14340.
01092p	ZINC, TOTAL (UG/L AS ZN)	02/02/70-03/31/94	91	11100.	20772.945	90300.	8.	501141377.275	22386.187	6300.	7400.	19800.	66800.

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0082

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403p	PH, LAB, STANDARD UNITS SU	03/17/78-03/31/94	83	2.7	2.761	3.3	2.3	0.044	0.209	2.5	2.6	2.9	3.1
00403p	CONVERTED PH, LAB, STANDARD UNITS	03/17/78-03/31/94	83	2.7	2.715	3.3	2.3	0.046	0.214	2.5	2.6	2.9	3.1
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/78-03/31/94	83	1995.262	1929.253	5011.872	501.187	782084.195	884.355	794.328	1258.925	2511.886	3162.278
01042p	COPPER, TOTAL (UG/L AS CU)	03/24/69-03/31/94	83	4650.	6121.325	15700.	1090.	15032562.856	3877.185	2350.	3530.	8210.	13020.
01092p	ZINC, TOTAL (UG/L AS ZN)	02/02/70-03/31/94	83	16600.	24129.639	65900.	2720.	321271208.404	17924.04	5910.	12300.	33600.	59140.

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0082

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/04/69-03/31/94	59	52.	50.78	96.	2.	919.52	30.324	21.	21.	81.	88.
00403p	PH, LAB, STANDARD UNITS SU	03/17/78-03/31/94	134	2.9	2.892	3.6	2.3	0.086	0.293	2.4	2.8	3.1	3.2
00403p	CONVERTED PH, LAB, STANDARD UNITS	03/17/78-03/31/94	134	2.9	2.785	3.6	2.3	0.097	0.312	2.4	2.8	3.1	3.2
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/78-03/31/94	134	1258.925	1640.123	5011.872	251.189	1741345.75	1319.601	630.957	794.328	1584.893	3981.072
01042p	COPPER, TOTAL (UG/L AS CU)	03/24/69-03/31/94	134	1495.	3765.224	46100.	550.	31532777.017	5615.405	935.	1315.	3470.	11350.
01092p	ZINC, TOTAL (UG/L AS ZN)	02/02/70-03/31/94	132	5945.	13610.53	66400.	1270.	282907241.701	16819.847	3637.	4720.	11375.	45340.

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Annual Analysis for 1982 - Station WHIS0082

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403p	PH, LAB, STANDARD UNITS SU	03/17/78-03/31/94	58	2.8	2.834	3.6	2.3	0.096	0.31	2.49	2.575	3.	3.3
00403p	CONVERTED PH, LAB, STANDARD UNITS	03/17/78-03/31/94	58	2.8	2.736	3.6	2.3	0.106	0.325	2.49	2.575	3.	3.3
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/78-03/31/94	58	1584.893	1836.535	5011.872	251.189	1431869.743	1196.608	501.187	1000.	2674.484	3244.157
01042p	COPPER, TOTAL (UG/L AS CU)	03/24/69-03/31/94	58	2875.	5527.069	64900.	640.	75938270.206	8714.257	856.	1330.	7202.5	11230.
01092p	ZINC, TOTAL (UG/L AS ZN)	02/02/70-03/31/94	55	15350.	22827.818	67200.	390.	299882158.114	17317.106	6246.	10200.	29800.	52592.

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Annual Analysis for 1983 - Station WHIS0082

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403p	PH, LAB, STANDARD UNITS SU	03/17/78-03/31/94	83	3.1	3.202	7.8	2.5	0.433	0.658	2.7	3.	3.3	3.76
00403p	CONVERTED PH, LAB, STANDARD UNITS	03/17/78-03/31/94	83	3.1	3.014	7.8	2.5	0.469	0.685	2.7	3.	3.3	3.76
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/78-03/31/94	83	794.328	968.233	3162.278	0.016	483180.354	695.112	174.904	501.187	1000.	1995.262
01042p	COPPER, TOTAL (UG/L AS CU)	03/24/69-03/31/94	82	2250.	2852.683	8330.	390.	3609143.33	1899.775	1109.	1407.5	3887.5	6256.
01092p	ZINC, TOTAL (UG/L AS ZN)	02/02/70-03/31/94	82	7880.	19386.951	89300.	1450.	518470139.973	22769.939	3915.	5682.5	23572.5	63778.

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0082

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403p	PH, LAB, STANDARD UNITS SU	03/17/78-03/31/94	49	2.9	2.89	3.7	2.4	0.072	0.268	2.5	2.7	3.1	3.2
00403p	CONVERTED PH, LAB, STANDARD UNITS	03/17/78-03/31/94	49	2.9	2.816	3.7	2.4	0.077	0.278	2.5	2.7	3.1	3.2
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/78-03/31/94	49	1258.925	1527.582	3981.072	199.526	762451.872	873.185	630.957	794.328	1995.262	3162.278
01042p	COPPER, TOTAL (UG/L AS CU)	03/24/69-03/31/94	49	2110.	3424.49	9620.	720.	6936666.922	2633.755	1280.	1625.	5745.	8150.
01092p	ZINC, TOTAL (UG/L AS ZN)	02/02/70-03/31/94	49	12930.	20958.367	78000.	3920.	276216209.779	16619.754	7430.	9705.	33650.	46220.

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

Annual Analysis for 1985 - Station WHIS0082

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403p	PH, LAB, STANDARD UNITS SU	03/17/78-03/31/94	43	2.9	2.909	3.2	2.6	0.04	0.2	2.6	2.7	3.1	3.2
00403p	CONVERTED PH, LAB, STANDARD UNITS	03/17/78-03/31/94	43	2.9	2.865	3.2	2.6	0.042	0.205	2.6	2.7	3.1	3.2
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/78-03/31/94	43	1258.925	1364.565	2511.886	630.957	384497.051	620.078	630.957	794.328	1995.262	2511.886
01042p	COPPER, TOTAL (UG/L AS CU)	03/24/69-03/31/94	43	2090.	2539.302	5990.	40.	1718339.978	1310.855	1432.	1600.	3260.	5062.
01092p	ZINC, TOTAL (UG/L AS ZN)	02/02/70-03/31/94	43	16160.	22866.744	83610.	5730.	316541417.719	17791.611	8478.	11280.	28630.	51432.

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

Annual Analysis for 1986 - Station WHIS0082

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/04/69-03/31/94	17	562.	477.059	688.	50.	44589.059	211.161	72.4	300.	685.	688.
00403p	PH, LAB, STANDARD UNITS SU	03/17/78-03/31/94	74	2.8	2.88	3.5	2.4	0.081	0.285	2.5	2.6	3.2	3.2
00403p	CONVERTED PH, LAB, STANDARD UNITS	03/17/78-03/31/94	74	2.8	2.794	3.5	2.4	0.089	0.298	2.5	2.6	3.2	3.2
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/78-03/31/94	74	1584.893	1608.568	3981.072	316.228	921100.27	959.74	630.957	630.957	2511.886	3162.278
01042p	COPPER, TOTAL (UG/L AS CU)	03/24/69-03/31/94	74	1620.	3007.635	15340.	460.	10467250.838	3235.313	600.	647.5	4650.	8800.
01092p	ZINC, TOTAL (UG/L AS ZN)	02/02/70-03/31/94	75	12900.	20134.667	88400.	740.	517600617.117	22750.838	2570.	2990.	26400.	57636.

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

Annual Analysis for 1987 - Station WHIS0082

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/04/69-03/31/94	26	20.	27.038	53.	5.	235.478	15.345	10.	18.	44.	53.
00403p	PH, LAB, STANDARD UNITS SU	03/17/78-03/31/94	65	2.8	2.818	3.2	2.4	0.052	0.227	2.56	2.6	3.05	3.1
00403p	CONVERTED PH, LAB, STANDARD UNITS	03/17/78-03/31/94	65	2.8	2.761	3.2	2.4	0.055	0.234	2.56	2.6	3.05	3.1
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/78-03/31/94	65	1584.893	1732.923	3981.072	630.957	793255.7	890.649	794.328	897.164	2511.886	2772.043
01042p	COPPER, TOTAL (UG/L AS CU)	03/24/69-03/31/94	65	2100.	3374.538	12390.	740.	7413846.659	2722.838	900.	1230.	5090.	7106.
01092p	ZINC, TOTAL (UG/L AS ZN)	02/02/70-03/31/94	65	16020.	25333.308	101300.	3670.	663063493.966	25750.019	3920.	4895.	35400.	71922.

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0082

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/04/69-03/31/94	69	47.	35.087	64.	0.	226.904	15.063	13.	21.	47.	47.
00403p	PH, LAB, STANDARD UNITS SU	03/17/78-03/31/94	69	2.8	2.826	3.1	2.5	0.017	0.129	2.7	2.7	2.9	3.
00403p	CONVERTED PH, LAB, STANDARD UNITS	03/17/78-03/31/94	69	2.8	2.807	3.1	2.5	0.017	0.131	2.7	2.7	2.9	3.
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/78-03/31/94	69	1584.893	1559.977	3162.278	794.328	231504.591	481.149	1000.	1258.925	1995.262	1995.262
01042p	COPPER, TOTAL (UG/L AS CU)	03/24/69-03/31/94	69	1470.	1712.812	5000.	4.	914571.92	956.333	1130.	1195.	1735.	3200.
01092p	ZINC, TOTAL (UG/L AS ZN)	02/02/70-03/31/94	69	7200.	11380.797	100000.	5.	242976792.37	15587.713	4540.	4865.	10550.	15450.

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0082

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/04/69-03/31/94	75	20.	35.28	782.	0.	8000.529	89.446	2.8	12.	37.	47.8
00403p	PH, LAB, STANDARD UNITS SU	03/17/78-03/31/94	74	2.9	2.877	3.2	2.5	0.031	0.177	2.6	2.8	3.	3.1
00403p	CONVERTED PH, LAB, STANDARD UNITS	03/17/78-03/31/94	74	2.9	2.84	3.2	2.5	0.033	0.181	2.6	2.8	3.	3.1
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/78-03/31/94	74	1258.925	1443.891	3162.278	630.957	400467.546	632.825	794.328	1000.	1584.893	2511.886

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0082

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01042p	COPPER, TOTAL (UG/L AS CU)	03/24/69-03/31/94	75	2120.	2928.973	9300.	3.	4790015.54	2188.61	766.	1460.	4700.	5900.
01092p	ZINC, TOTAL (UG/L AS ZN)	02/02/70-03/31/94	75	11000.	15613.467	60000.	1380.	162602795.928	12751.58	4280.	7400.	22000.	30240.

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

Annual Analysis for 1990 - Station WHIS0082

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/04/69-03/31/94	68	11.	22.559	124.	0.	964.041	31.049	0.	0.	27.	70.6
00403p	PH, LAB, STANDARD UNITS SU	03/17/78-03/31/94	68	3.1	3.046	3.5	2.3	0.073	0.27	2.69	2.9	3.3	3.3
00403p	CONVERTED PH, LAB, STANDARD UNITS	03/17/78-03/31/94	68	3.1	2.954	3.5	2.3	0.081	0.285	2.69	2.9	3.3	3.3
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/78-03/31/94	68	794.328	1111.639	5011.872	316.228	723150.044	850.382	501.187	501.187	1258.925	2046.925
01042p	COPPER, TOTAL (UG/L AS CU)	03/24/69-03/31/94	68	1770.	2490.588	6000.	620.	2965620.544	1722.098	709.	1025.	4000.	5000.
01092p	ZINC, TOTAL (UG/L AS ZN)	02/02/70-03/31/94	68	14850.	23170.588	71400.	3200.	466828674.276	21606.218	3690.	4700.	41750.	60000.

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

Annual Analysis for 1991 - Station WHIS0082

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/04/69-03/31/94	56	0.	5.982	54.	0.	129.	11.358	0.	0.	9.	14.5
00403p	PH, LAB, STANDARD UNITS SU	03/17/78-03/31/94	56	3.1	3.046	3.4	2.4	0.045	0.213	2.8	2.9	3.2	3.4
00403p	CONVERTED PH, LAB, STANDARD UNITS	03/17/78-03/31/94	56	3.1	2.993	3.4	2.4	0.048	0.22	2.8	2.9	3.2	3.4
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/78-03/31/94	56	794.328	1015.669	3981.072	398.107	327897.597	572.623	398.107	630.957	1258.925	1584.893
01042p	COPPER, TOTAL (UG/L AS CU)	03/24/69-03/31/94	56	4800.	4777.018	9270.	3.	5444835.109	2333.417	2216.	2735.	6560.	8251.
01092p	ZINC, TOTAL (UG/L AS ZN)	02/02/70-03/31/94	56	24660.	36022.857	108900.	20.	747556504.416	27341.48	8319.	15775.	60972.5	80365.

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0082

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/04/69-03/31/94	163	0.	7.896	54.	0.	181.477	13.471	0.	0.	11.	31.2
00403p	PH, LAB, STANDARD UNITS SU	03/17/78-03/31/94	160	2.9	2.984	3.4	2.7	0.034	0.184	2.8	2.8	3.2	3.2
00403p	CONVERTED PH, LAB, STANDARD UNITS	03/17/78-03/31/94	160	2.9	2.949	3.4	2.7	0.035	0.188	2.8	2.8	3.2	3.2
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/78-03/31/94	160	1258.925	1125.799	1995.262	398.107	182669.689	427.399	630.957	630.957	1584.893	1584.893
01042p	COPPER, TOTAL (UG/L AS CU)	03/24/69-03/31/94	160	5765.	5280.275	8810.	10.	4919305.924	2217.951	2054.	3346.75	7067.5	7870.
01092p	ZINC, TOTAL (UG/L AS ZN)	02/02/70-03/31/94	160	40385.	39020.425	92410.	4500.	584939948.133	24185.532	8712.	13815.	60425.	69580.

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0082

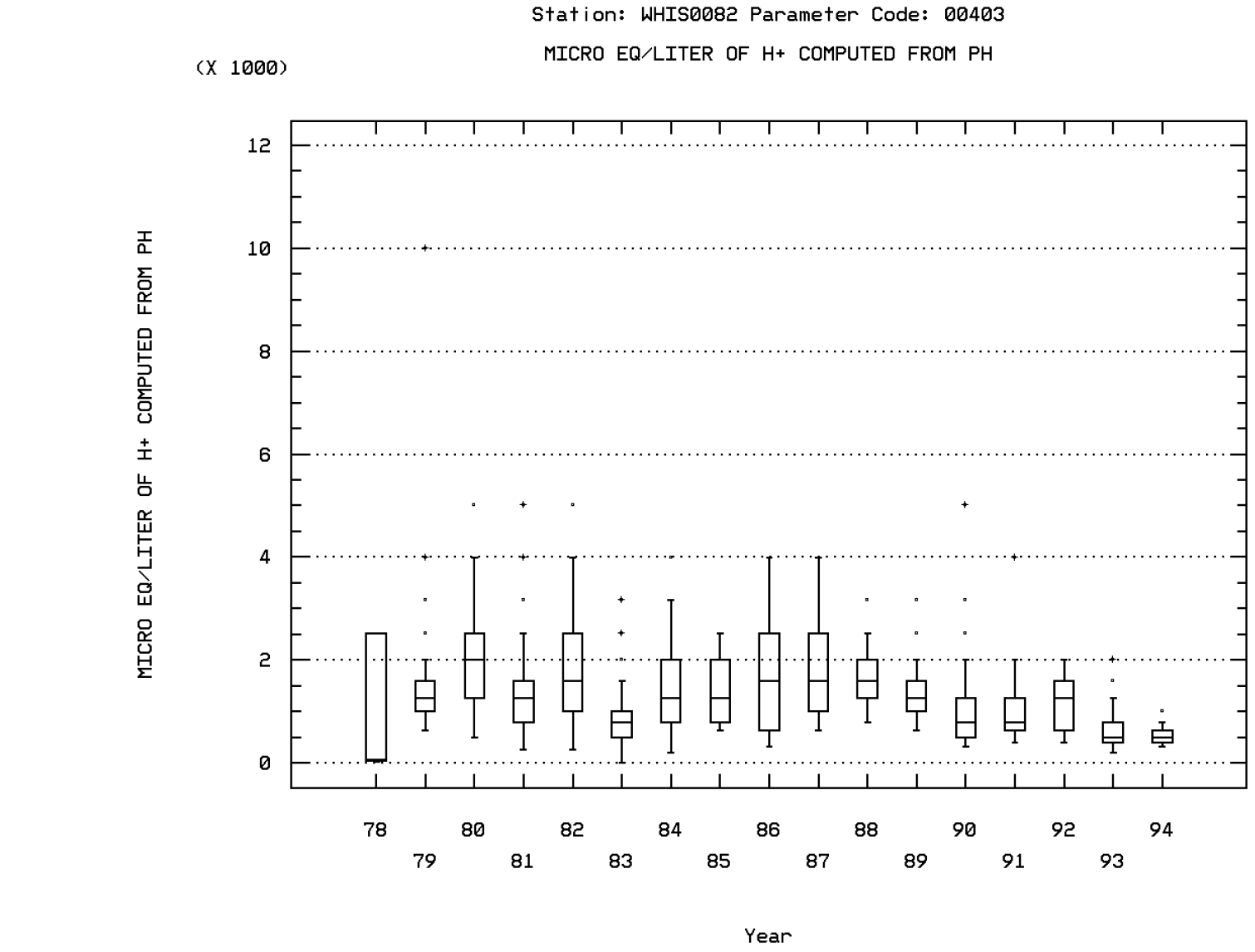
Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/04/69-03/31/94	115	32.	40.67	348.	0.	3288.96	57.349	0.	10.	56.	64.
00403p	PH, LAB, STANDARD UNITS SU	03/17/78-03/31/94	115	3.3	3.249	3.7	2.7	0.058	0.24	2.9	3.1	3.4	3.5
00403p	CONVERTED PH, LAB, STANDARD UNITS	03/17/78-03/31/94	115	3.3	3.176	3.7	2.7	0.063	0.251	2.9	3.1	3.4	3.5
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/78-03/31/94	115	501.187	667.536	1995.262	199.526	193623.059	440.026	316.228	398.107	794.328	1258.925
01042p	COPPER, TOTAL (UG/L AS CU)	03/24/69-03/31/94	115	1420.	2202.122	10130.	830.	3618856.599	1902.329	1218.	1300.	2350.	4080.
01092p	ZINC, TOTAL (UG/L AS ZN)	02/02/70-03/31/94	115	4330.	12071.304	72950.	1360.	292469536.003	17101.741	2292.	3110.	14130.	43242.

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

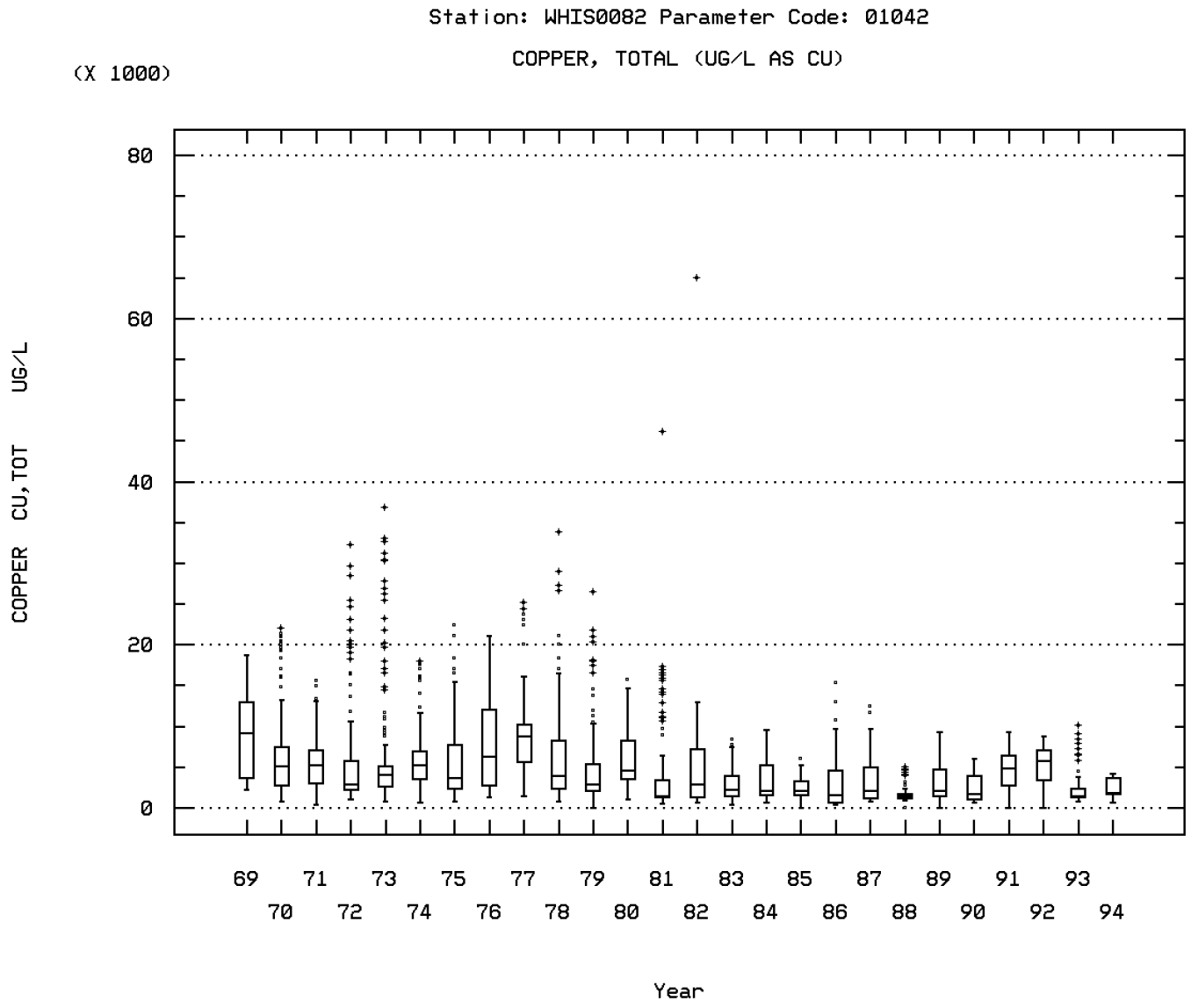
Annual Analysis for 1994 - Station WHIS0082

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/04/69-03/31/94	26	15.	12.5	25.	0.	80.5	8.972	0.	0.	20.	25.
00403p	PH, LAB, STANDARD UNITS SU	03/17/78-03/31/94	26	3.3	3.315	3.5	3.	0.017	0.129	3.17	3.2	3.4	3.5
00403p	CONVERTED PH, LAB, STANDARD UNITS	03/17/78-03/31/94	26	3.3	3.296	3.5	3.	0.017	0.13	3.17	3.2	3.4	3.5
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/78-03/31/94	26	501.187	505.386	1000.	316.228	25861.903	160.816	316.228	398.107	630.957	679.969
01042p	COPPER, TOTAL (UG/L AS CU)	03/24/69-03/31/94	26	1850.	2403.077	4140.	710.	1106246.154	1051.782	1444.	1690.	3695.	4015.
01092p	ZINC, TOTAL (UG/L AS ZN)	02/02/70-03/31/94	26	3360.	6610.769	18890.	2610.	33990751.385	5830.159	2680.	3012.5	9575.	18381.

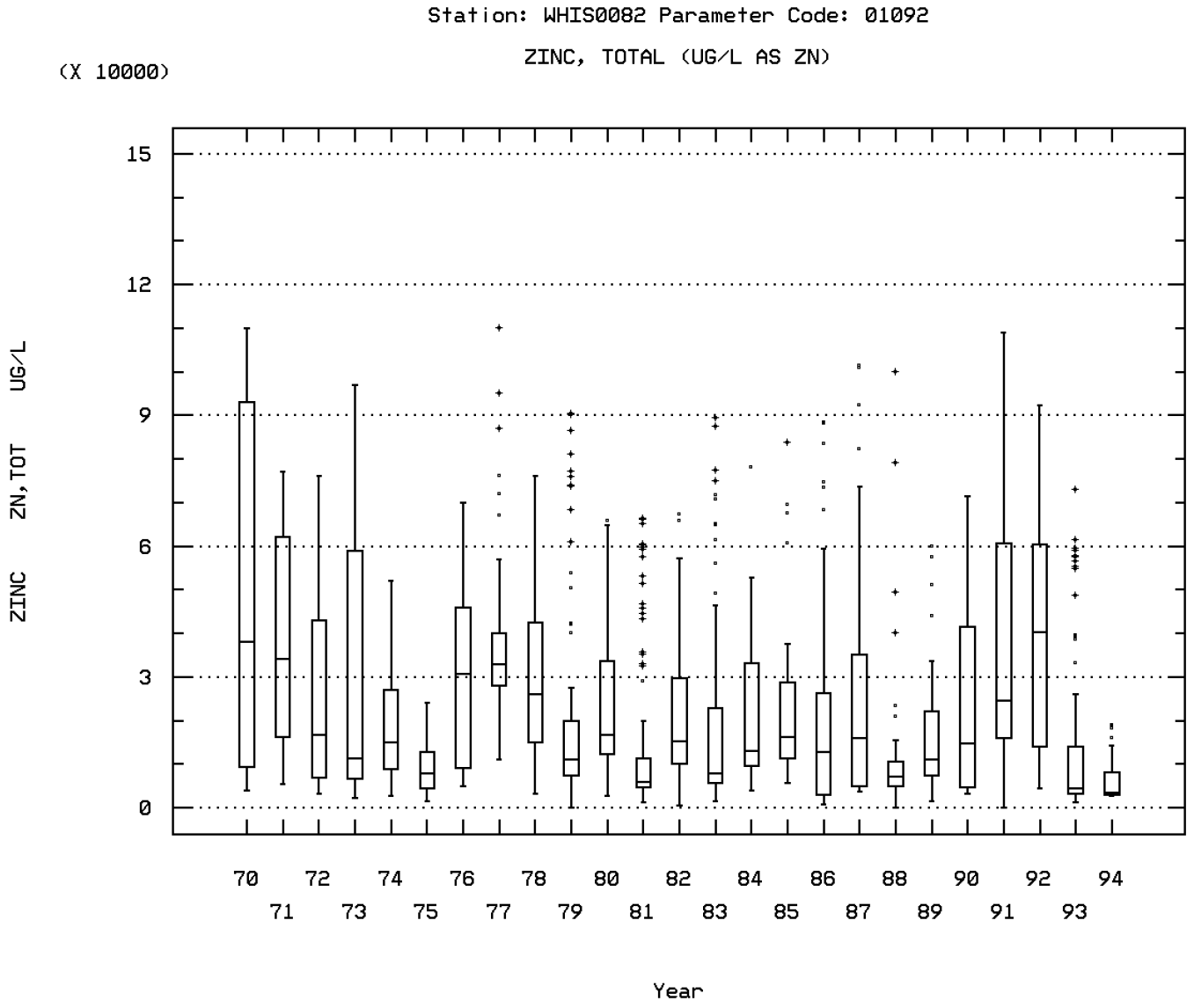
** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot



SPRING CREEK AT SPRING CREEK DEBRIS DAM



SPRING CREEK AT SPRING CREEK DEBRIS DAM



SPRING CREEK AT SPRING CREEK DEBRIS DAM

Seasonal Analysis for Season #1: 6/01 to 11/09 - Station WHIS0082

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/04/69-03/31/94	443	5.	18.425	684.	0.	5235.054	72.354	2.	3.	12.	24.
00403p	PH, LAB, STANDARD UNITS SU	03/17/78-03/31/94	332	2.7	2.744	3.8	2.	0.075	0.273	2.4	2.6	2.9	3.17
00403p	CONVERTED PH, LAB, STANDARD UNITS	03/17/78-03/31/94	332	2.7	2.669	3.8	2.	0.08	0.283	2.4	2.6	2.9	3.17
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/78-03/31/94	332	1995.262	2141.257	10000.	158.489	1443948.193	1201.644	679.969	1258.925	2511.886	3981.072
01042p	COPPER, TOTAL (UG/L AS CU)	03/24/69-03/31/94	700	8250.	10201.84	64900.	3.	51351937.019	7166.027	2791.	5177.5	13900.	20000.
01092p	ZINC, TOTAL (UG/L AS ZN)	02/02/70-03/31/94	519	40140.	44324.393	110000.	20.	616613498.424	24831.703	14130.	23900.	62000.	78000.

** - Less than 9 observations ## - Computed 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: 11/10 to 2/20 - Station WHIS0082

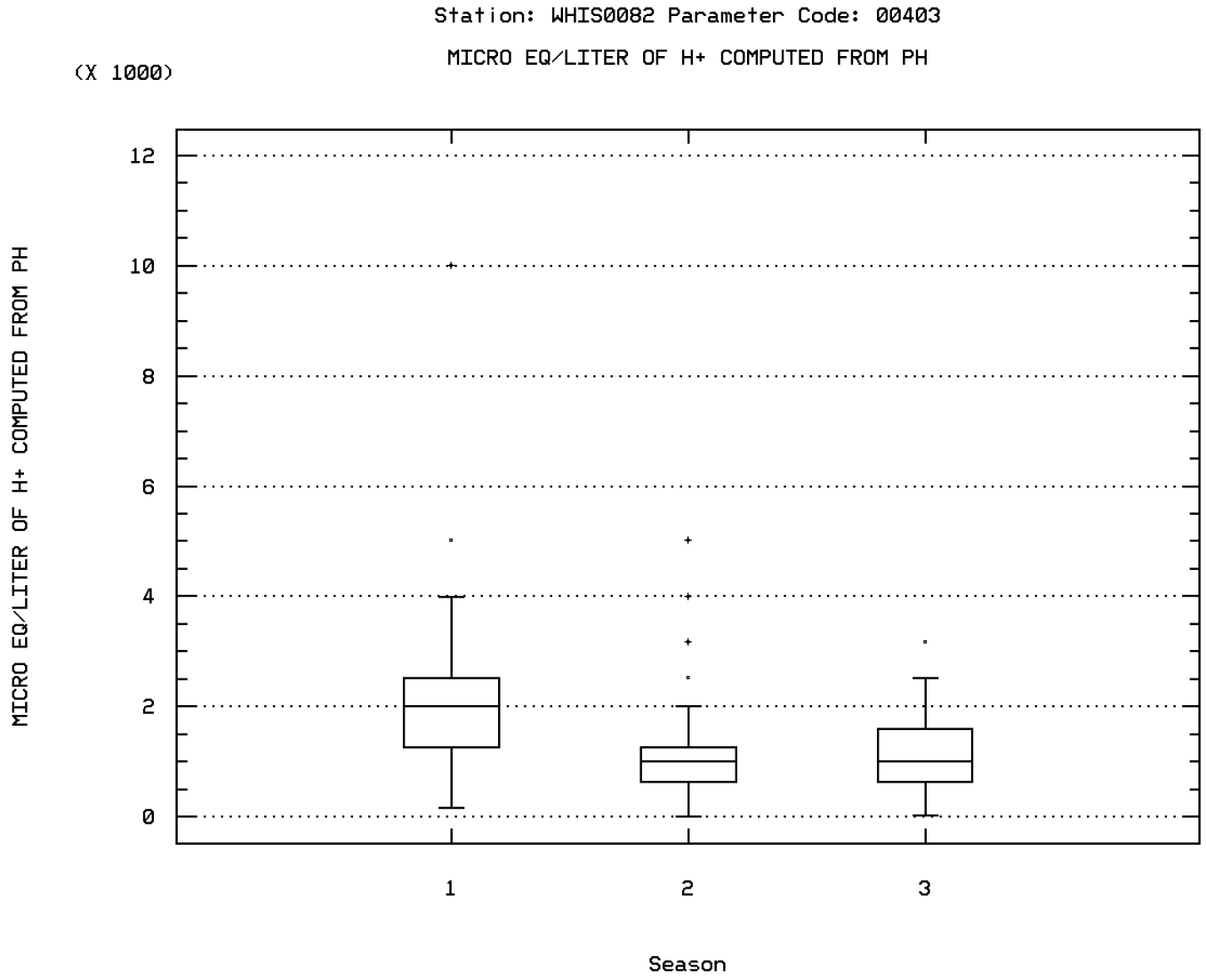
Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/04/69-03/31/94	735	40.	97.443	688.	0.	22277.195	149.255	3.	10.	85.	304.
00403p	PH, LAB, STANDARD UNITS SU	03/17/78-03/31/94	421	3.	3.061	7.8	2.3	0.133	0.364	2.8	2.9	3.2	3.4
00403p	CONVERTED PH, LAB, STANDARD UNITS	03/17/78-03/31/94	421	3.	2.976	7.8	2.3	0.14	0.374	2.8	2.9	3.2	3.4
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/78-03/31/94	421	1000.	1057.952	5011.872	0.016	373520.654	611.163	398.107	630.957	1258.925	1584.893
01042p	COPPER, TOTAL (UG/L AS CU)	03/24/69-03/31/94	996	2780.	3835.248	18000.	6.	9740064.985	3120.908	1190.	1640.	4957.5	8706.
01092p	ZINC, TOTAL (UG/L AS ZN)	02/02/70-03/31/94	554	8945.	15302.778	108900.	5.	286918428.889	16938.667	2920.	4765.	17925.	39000.

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

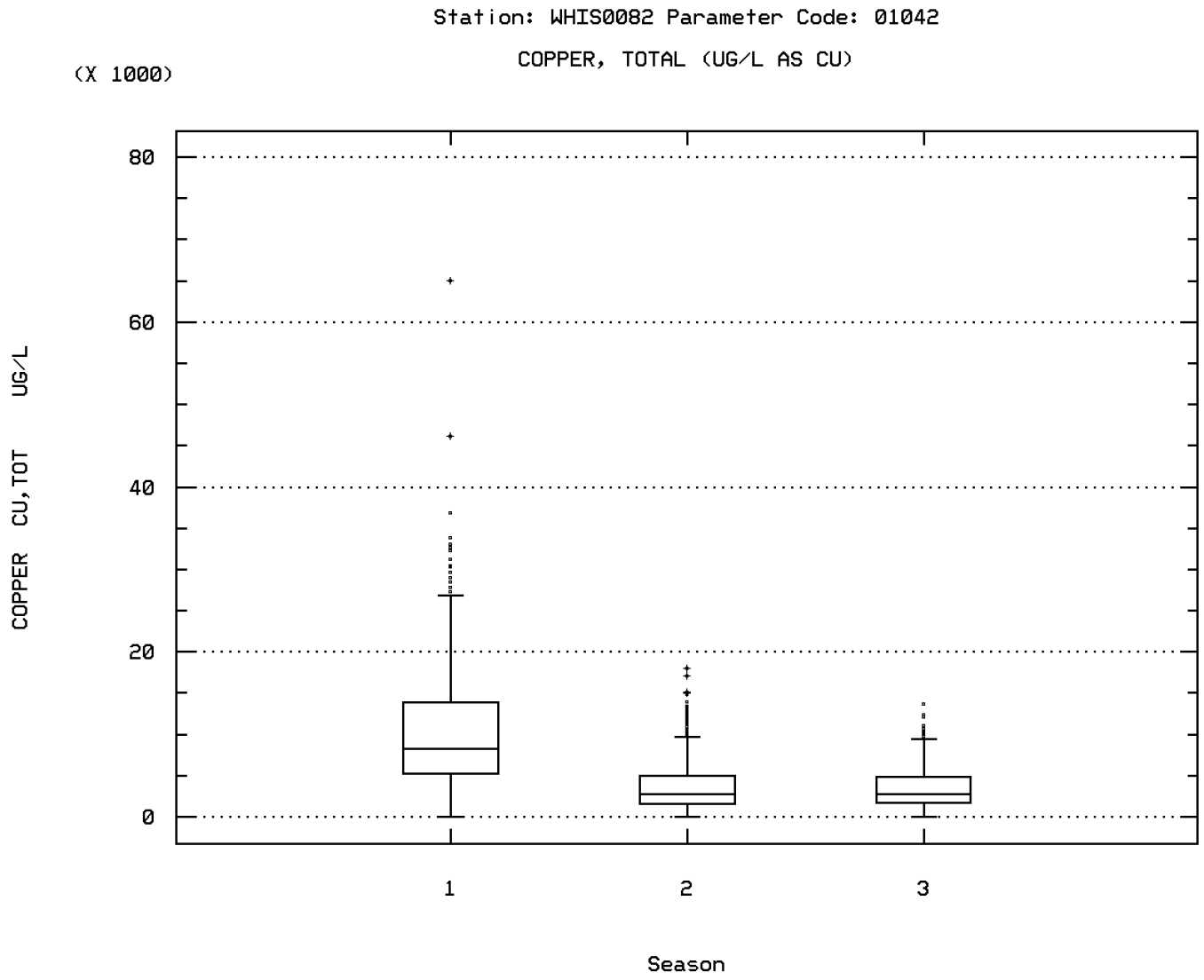
Seasonal Analysis for Season #3: 2/21 to 5/31 - Station WHIS0082

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/04/69-03/31/94	645	35.	52.191	782.	0.	7573.251	87.024	0.	10.	55.	92.
00403p	PH, LAB, STANDARD UNITS SU	03/17/78-03/31/94	496	3.	3.029	4.8	2.5	0.067	0.258	2.8	2.8	3.2	3.3
00403p	CONVERTED PH, LAB, STANDARD UNITS	03/17/78-03/31/94	496	3.	2.966	4.8	2.5	0.071	0.266	2.8	2.8	3.2	3.3
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/78-03/31/94	496	1000.	1082.665	3162.278	15.849	301535.142	549.122	501.187	630.957	1584.893	1584.893
01042p	COPPER, TOTAL (UG/L AS CU)	03/24/69-03/31/94	961	2760.	3395.86	13600.	2.	4524268.496	2127.033	1300.	1700.	4865.	6600.
01092p	ZINC, TOTAL (UG/L AS ZN)	02/02/70-03/31/94	626	9595.	15694.74	74100.	8.	272959749.348	16521.494	4044.	5565.	16350.	43773.

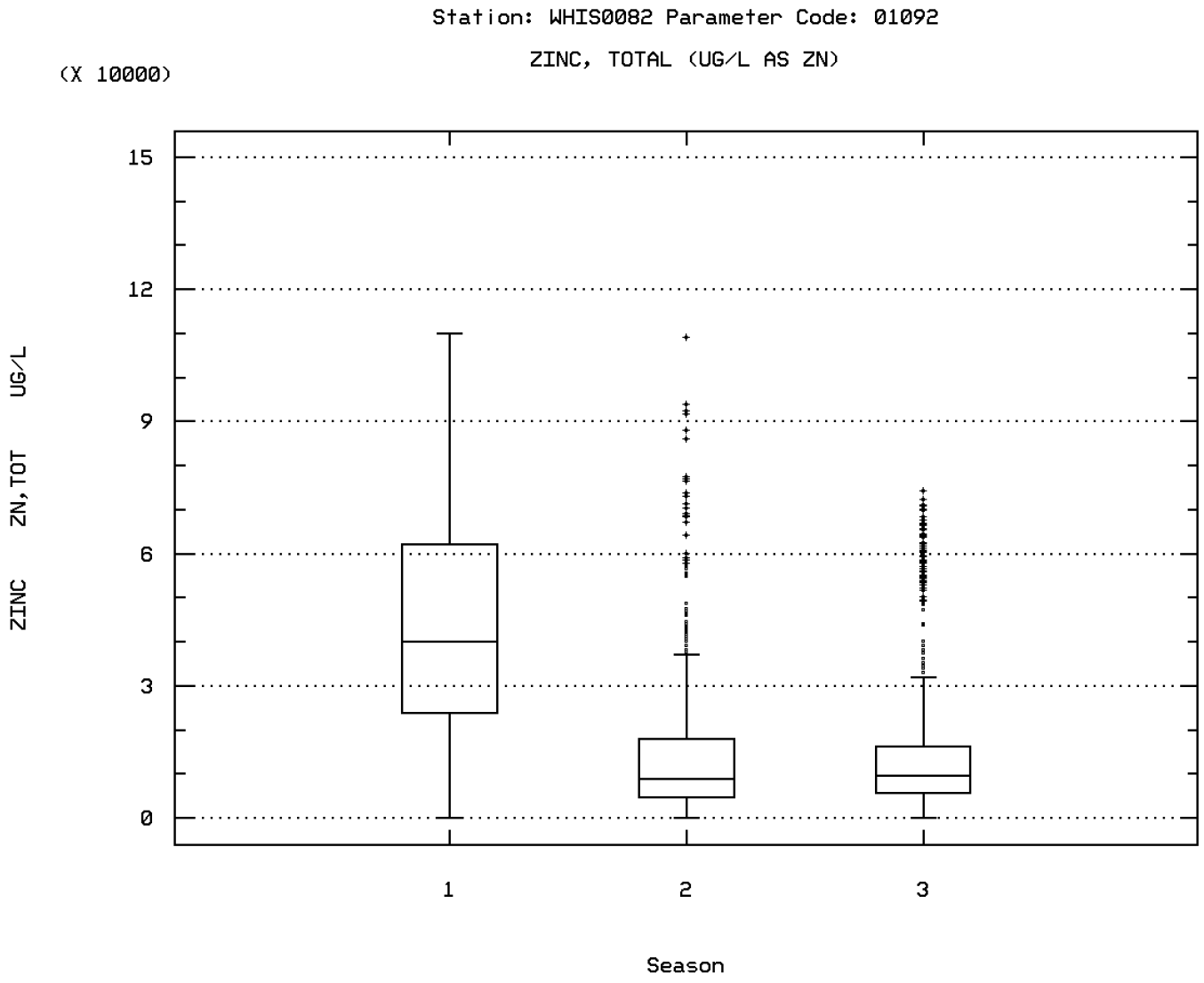
** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot



SPRING CREEK AT SPRING CREEK DEBRIS DAM



SPRING CREEK AT SPRING CREEK DEBRIS DAM



SPRING CREEK AT SPRING CREEK DEBRIS DAM

Station Inventory for Station: WHIS0083

NPS Station ID: WHIS0083 LAT/LON: 40.630003/-122.469449 Agency: 113BUREC Date Created: 01/03/87
Location: SPRING CREEK DEBRIS DAM RESERVOIR SPILL FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): CRSPRSPL /SPCKSPILL /SH20
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 18020112 Depth of Water: 0 Aquifer:
Major Basin: CALIFORNIA Elevation: 0 Water Body Id:
Minor Basin: SACRAMENTO RIVER ECO Region:
RF1 Index: 18020112 RF1 Mile Point: 0.000 Distance from RF1: 1.60 On/Off RF1:
RF3 Index: 18020112000300.00 RF3 Mile Point: 0.00 Distance from RF3: 0.05 On/Off RF3:
Description:
SPRING CREEK DEBRIS DAM RESERVOIR SPILL, ON SPRING CREEK

Parameter Inventory for Station: WHIS0083

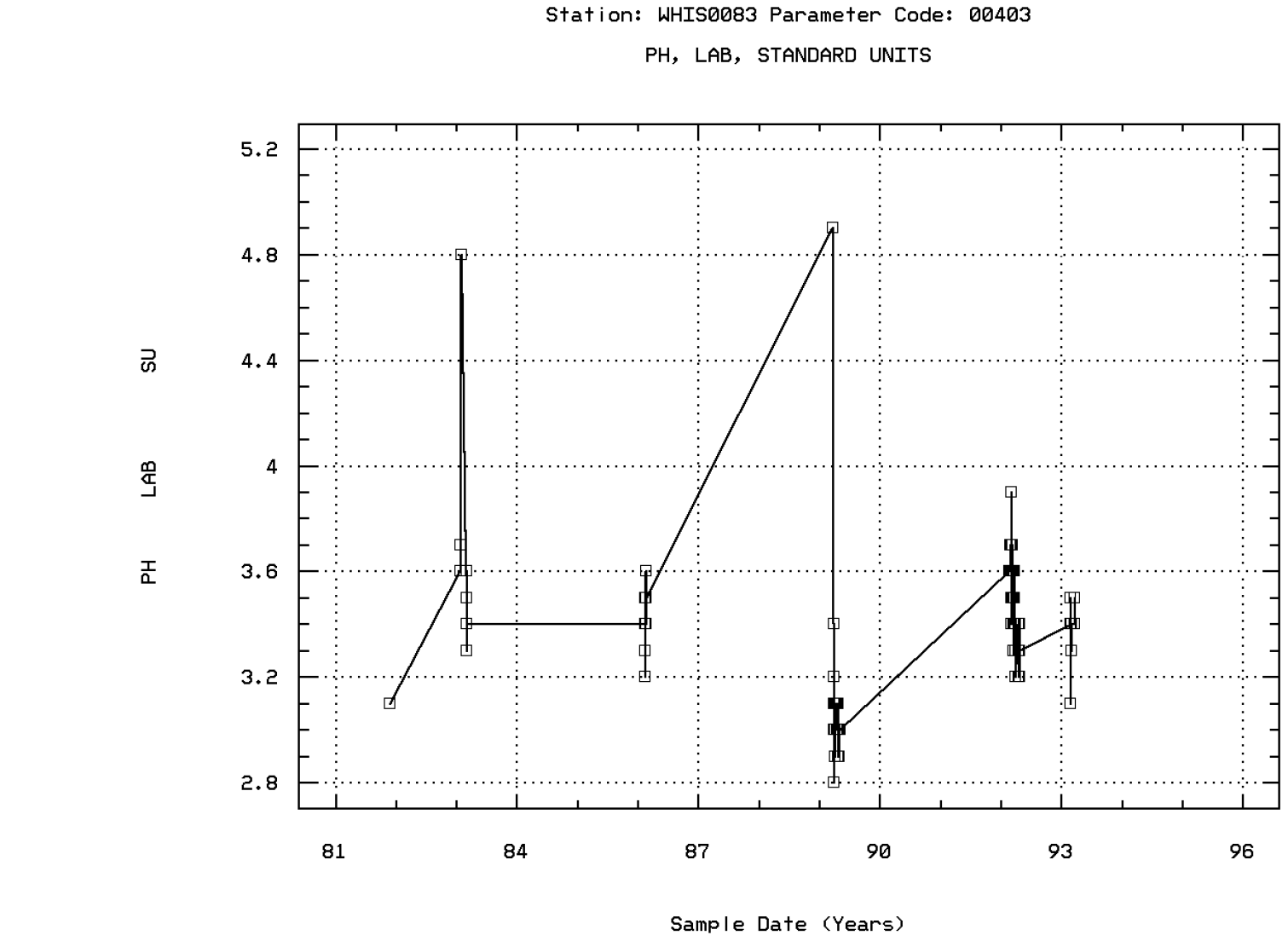
Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00062	ELEVATION, RESERVOIR SURFACE WATER IN FEET	03/24/89-05/04/89	48	795.9	796.071	797.4	795.2	0.213	0.462	795.8	795.8	796.275	796.9
00403p	PH, LAB, STANDARD UNITS SU	11/24/81-03/19/93	177	3.4	3.371	4.9	2.8	0.073	0.269	3.	3.1	3.5	3.6
00403p	CONVERTED PH, LAB, STANDARD UNITS	11/24/81-03/19/93	177	3.4	3.302	4.9	2.8	0.077	0.278	3.	3.1	3.5	3.6
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/24/81-03/19/93	177	398.107	499.049	1584.893	12.589	78401.108	280.002	251.189	316.228	794.328	1000.
01042p	COPPER, TOTAL (UG/L AS CU)	01/21/76-03/19/93	185	890.	949.557	2640.	100.	140786.944	375.216	516.	670.	1185.	1500.
01092p	ZINC, TOTAL (UG/L AS ZN)	01/20/78-03/19/93	178	2890.	3141.91	6750.	560.	2465050.568	1570.048	1207.	1760.	4360.	5411.
72034p	FLOW, INSTANTANEOUS SPILLWAY DISCHARGE CFS	01/09/78-03/19/93	188	61.5	122.17	1512.	0.	30705.843	175.231	20.	46.	114.75	312.

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

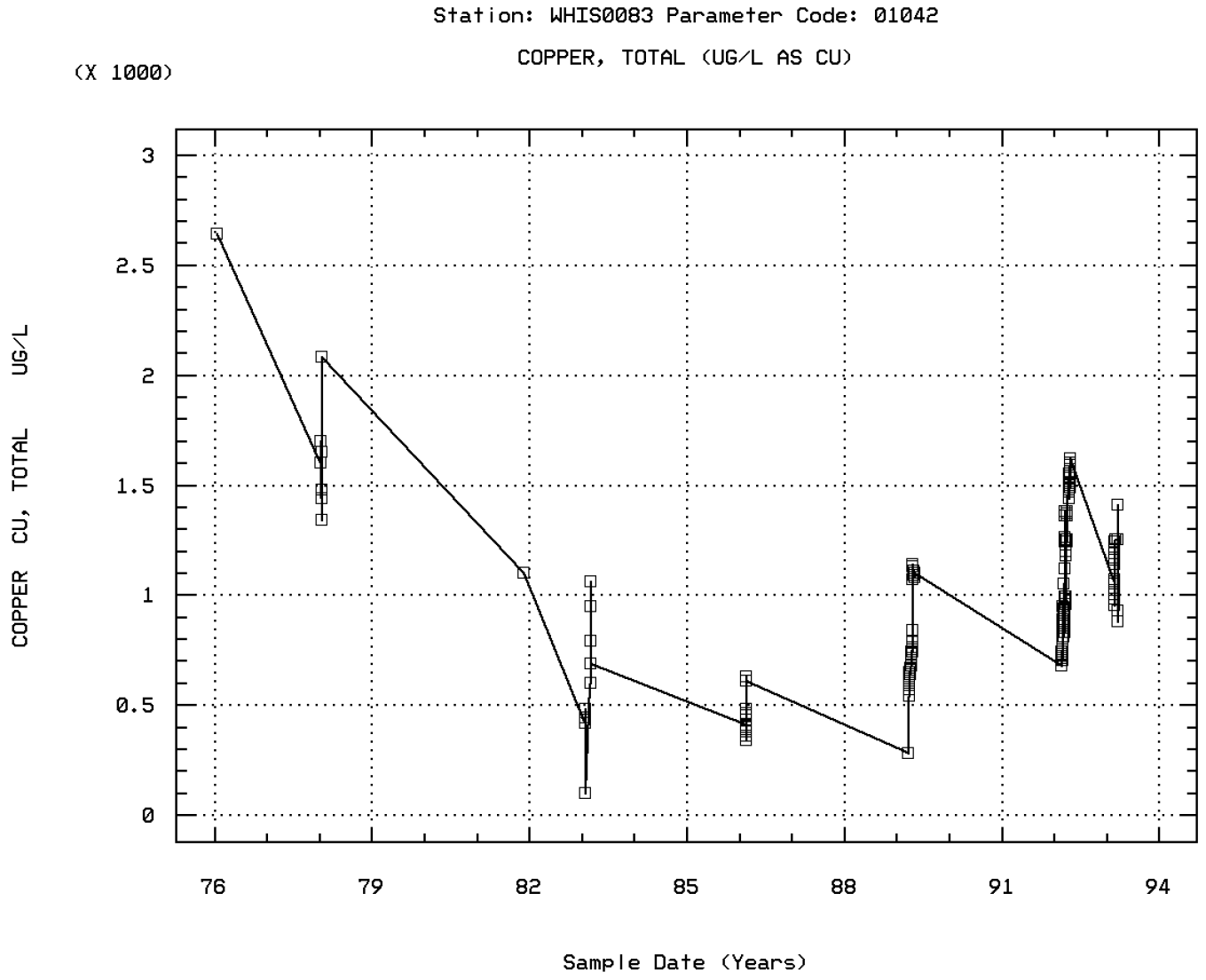
EPA Water Quality Criteria Analysis for Station: WHIS0083

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------6/01-11/09---------- Obs	Exceed	Prop.	----------11/10-2/20---------- Obs	Exceed	Prop.	----------2/21-5/31---------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.
00403	PH, LAB	Fresh Chronic	9.	177	0	0.00				23	0	0.00	154	0	0.00			
		Other-Lo Lim.	6.5	177	177	1.00				23	23	1.00	154	154	1.00			
01042	COPPER, TOTAL	Fresh Acute	18.	185	185	1.00				31	31	1.00	154	154	1.00			
		Drinking Water	1300.	185	32	0.17				31	8	0.26	154	24	0.16			
01092	ZINC, TOTAL	Fresh Acute	120.	178	178	1.00				24	24	1.00	154	154	1.00			
		Drinking Water	5000.	178	36	0.20				24	1	0.04	154	35	0.23			

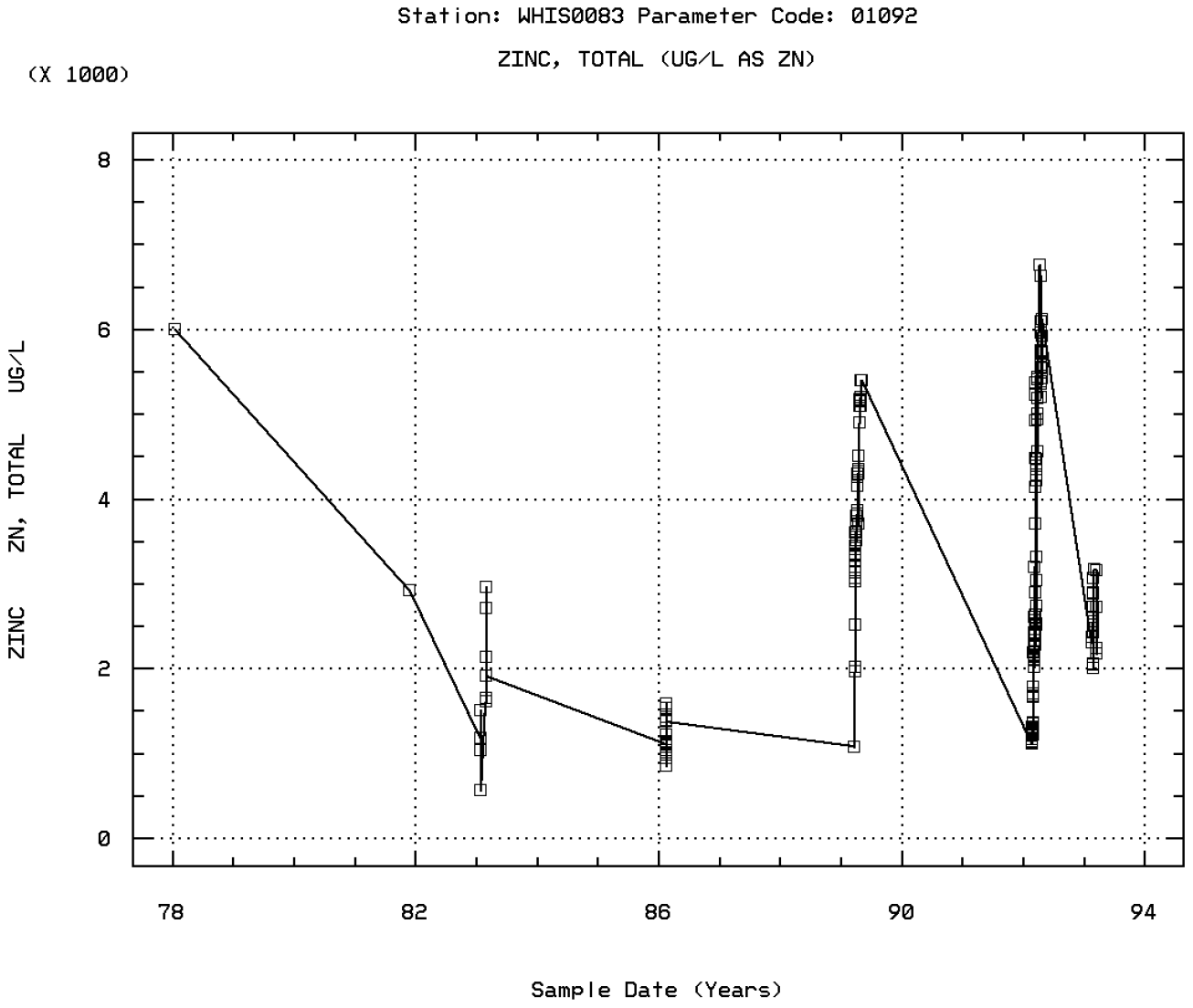
& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter



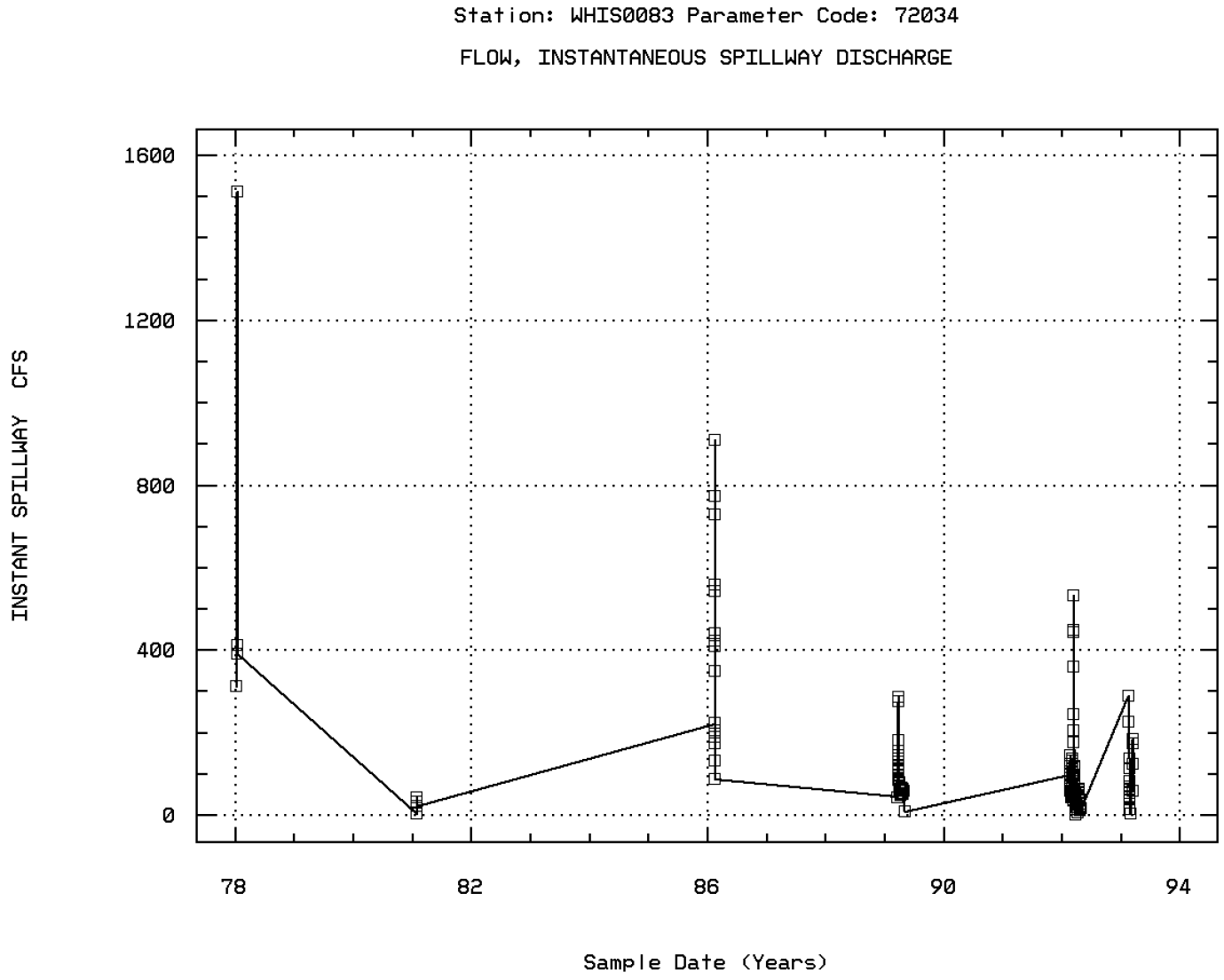
SPRING CREEK DEBRIS DAM RESERVOIR SPILL



SPRING CREEK DEBRIS DAM RESERVOIR SPILL



SPRING CREEK DEBRIS DAM RESERVOIR SPILL



SPRING CREEK DEBRIS DAM RESERVOIR SPILL

Annual Analysis for 1976 - Station WHIS0083

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01042	COPPER, TOTAL (UG/L AS CU)	01/21/76-03/19/93	1	2640.	2640.	2640.	2640.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0083

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01042	COPPER, TOTAL (UG/L AS CU)	01/21/76-03/19/93	7	1600.	1612.857	2080.	1340.	58223.81	241.296	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	01/20/78-03/19/93	1	6000.	6000.	6000.	6000.	0.	0.	**	**	**	**
72034	FLOW, INSTANTANEOUS SPILLWAY DISCHARGE CFS	01/09/78-03/19/93	5	391.	587.8	1512.	312.	268978.2	518.631	**	**	**	**

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

Annual Analysis for 1981 - Station WHIS0083

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403	PH, LAB, STANDARD UNITS SU	11/24/81-03/19/93	1	3.1	3.1	3.1	3.1	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	11/24/81-03/19/93	1	3.1	3.1	3.1	3.1	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/24/81-03/19/93	1	794.328	794.328	794.328	794.328	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	01/21/76-03/19/93	1	1100.	1100.	1100.	1100.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	01/20/78-03/19/93	1	2920.	2920.	2920.	2920.	0.	0.	**	**	**	**
72034	FLOW, INSTANTANEOUS SPILLWAY DISCHARGE CFS	01/09/78-03/19/93	4	26.5	24.5	43.	2.	299.	17.292	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0083

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403	PH, LAB, STANDARD UNITS SU	11/24/81-03/19/93	10	3.55	3.64	4.8	3.3	0.185	0.43	3.31	3.4	3.7	4.69
00403	CONVERTED PH, LAB, STANDARD UNITS	11/24/81-03/19/93	10	3.547	3.533	4.8	3.3	0.198	0.444	3.31	3.4	3.7	4.69
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/24/81-03/19/93	10	283.708	292.902	501.187	15.849	19423.077	139.367	34.217	199.526	398.107	490.879
01042	COPPER, TOTAL (UG/L AS CU)	01/21/76-03/19/93	10	600.	613.	1060.	100.	77667.778	278.689	132.	435.	830.	1049.
01092	ZINC, TOTAL (UG/L AS ZN)	01/20/78-03/19/93	10	1630.	1727.	2960.	560.	543378.889	737.142	608.	1145.	2282.5	2935.

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

Annual Analysis for 1986 - Station WHIS0083

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403	PH, LAB, STANDARD UNITS SU	11/24/81-03/19/93	16	3.5	3.463	3.6	3.2	0.013	0.115	3.27	3.4	3.575	3.6
00403	CONVERTED PH, LAB, STANDARD UNITS	11/24/81-03/19/93	16	3.5	3.448	3.6	3.2	0.013	0.116	3.27	3.4	3.575	3.6
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/24/81-03/19/93	16	316.228	356.786	630.957	251.189	10492.46	102.433	251.189	267.448	398.107	540.118
01042	COPPER, TOTAL (UG/L AS CU)	01/21/76-03/19/93	16	420.	448.75	630.	340.	8238.333	90.765	354.	385.	475.	616.
01092	ZINC, TOTAL (UG/L AS ZN)	01/20/78-03/19/93	16	1135.	1209.375	1590.	850.	46472.917	215.576	920.	1055.	1387.5	1548.
72034	FLOW, INSTANTANEOUS SPILLWAY DISCHARGE CFS	01/09/78-03/19/93	15	408.	408.867	908.	86.	63677.41	252.344	112.4	188.	557.	827.

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0083

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403	PH, LAB, STANDARD UNITS SU	11/24/81-03/19/93	48	3.1	3.102	4.9	2.8	0.08	0.283	2.9	3.	3.1	3.2
00403	CONVERTED PH, LAB, STANDARD UNITS	11/24/81-03/19/93	48	3.1	3.062	4.9	2.8	0.082	0.286	2.9	3.	3.1	3.2
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/24/81-03/19/93	48	794.328	867.944	1584.893	12.589	57915.765	240.657	630.957	794.328	1000.	1258.925
01042	COPPER, TOTAL (UG/L AS CU)	01/21/76-03/19/93	48	670.	764.271	1140.	280.	44381.904	210.67	588.	630.	1012.5	1100.
01092	ZINC, TOTAL (UG/L AS ZN)	01/20/78-03/19/93	48	3800.	3926.458	5400.	1070.	938351.02	968.685	2978.	3342.5	4800.	5200.
72034	FLOW, INSTANTANEOUS SPILLWAY DISCHARGE CFS	01/09/78-03/19/93	48	63.	84.792	286.	9.	2743.7	52.38	50.9	57.	102.5	146.

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

Annual Analysis for 1992 - Station WHIS0083

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403	PH, LAB, STANDARD UNITS SU	11/24/81-03/19/93	82	3.5	3.479	3.9	3.2	0.018	0.133	3.3	3.4	3.6	3.6
00403	CONVERTED PH, LAB, STANDARD UNITS	11/24/81-03/19/93	82	3.5	3.459	3.9	3.2	0.018	0.135	3.3	3.4	3.6	3.6
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/24/81-03/19/93	82	316.228	347.266	630.957	125.893	11398.284	106.763	251.189	251.189	398.107	501.187
01042	COPPER, TOTAL (UG/L AS CU)	01/21/76-03/19/93	82	940.	1075.61	1620.	680.	94565.673	307.515	720.	825.	1372.5	1544.
01092	ZINC, TOTAL (UG/L AS ZN)	01/20/78-03/19/93	82	2590.	3339.878	6750.	1120.	3169966.652	1780.44	1233.	1695.	5255.	5744.
72034	FLOW, INSTANTANEOUS SPILLWAY DISCHARGE CFS	01/09/78-03/19/93	96	52.5	81.708	531.	0.	9967.156	99.836	18.	37.25	87.25	139.1

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

Annual Analysis for 1993 - Station WHIS0083

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403	PH, LAB, STANDARD UNITS SU	11/24/81-03/19/93	20	3.4	3.38	3.5	3.1	0.017	0.132	3.1	3.4	3.5	3.5
00403	CONVERTED PH, LAB, STANDARD UNITS	11/24/81-03/19/93	20	3.4	3.358	3.5	3.1	0.018	0.134	3.1	3.4	3.5	3.5
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/24/81-03/19/93	20	398.107	438.131	794.328	316.228	25778.261	160.556	316.228	316.228	398.107	794.328
01042	COPPER, TOTAL (UG/L AS CU)	01/21/76-03/19/93	20	1150.	1122.15	1410.	880.	17626.134	132.763	932.3	1027.5	1232.5	1250.
01092	ZINC, TOTAL (UG/L AS ZN)	01/20/78-03/19/93	20	2585.	2569.	3170.	2000.	133735.789	365.699	2042.	2255.	2842.5	3151.
72034	FLOW, INSTANTANEOUS SPILLWAY DISCHARGE CFS	01/09/78-03/19/93	20	62.	94.2	287.	4.	5413.221	73.575	15.4	47.5	132.5	221.7

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

Seasonal Analysis for Season #2: 11/10 to 2/20 - Station WHIS0083

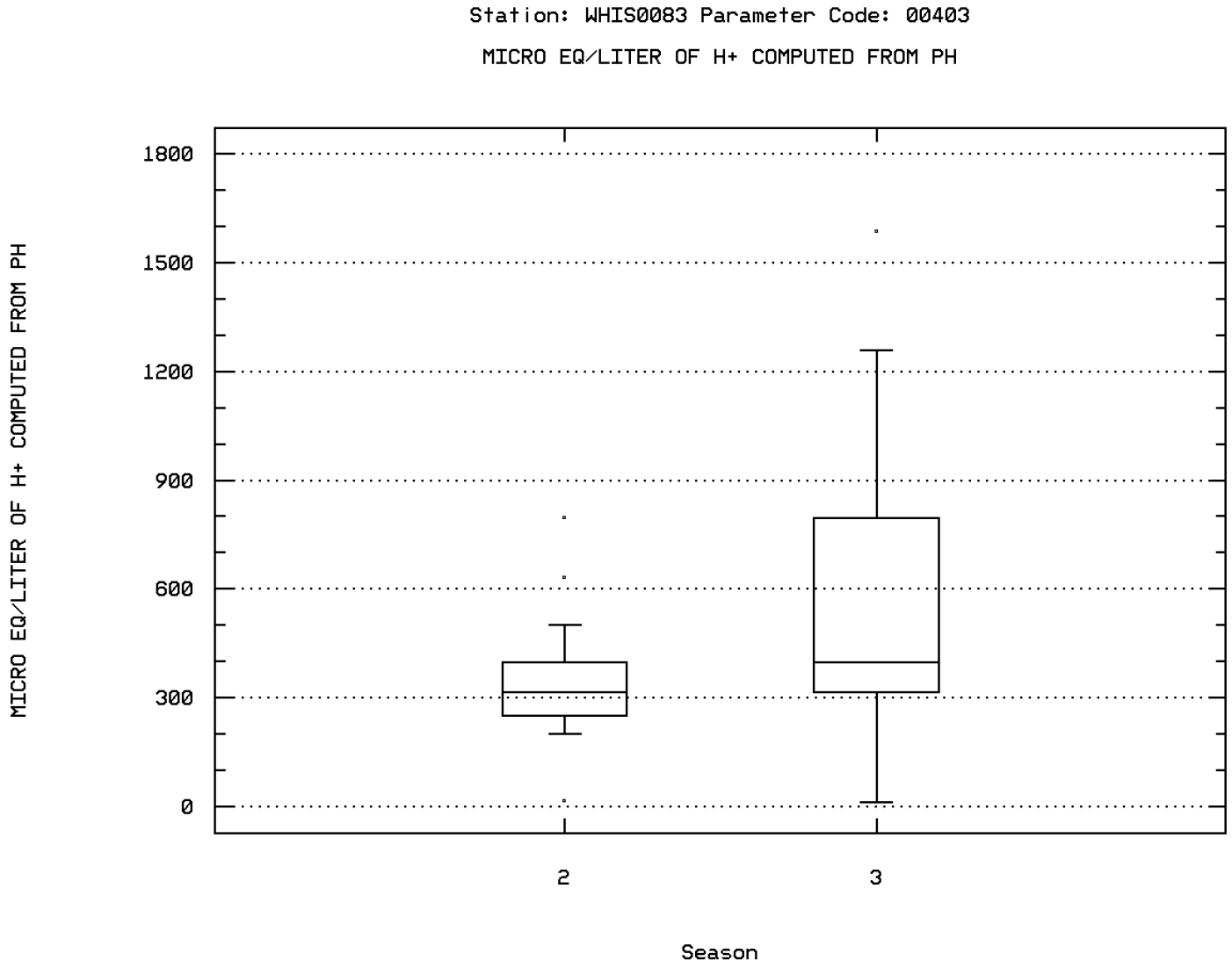
Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403p	PH, LAB, STANDARD UNITS SU	11/24/81-03/19/93	23	3.5	3.53	4.8	3.1	0.098	0.313	3.24	3.4	3.6	3.7
00403p	CONVERTED PH, LAB, STANDARD UNITS	11/24/81-03/19/93	23	3.5	3.465	4.8	3.1	0.102	0.32	3.24	3.4	3.6	3.7
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/24/81-03/19/93	23	316.228	342.753	794.328	15.849	23841.074	154.406	199.526	251.189	398.107	579.049
01042p	COPPER, TOTAL (UG/L AS CU)	01/21/76-03/19/93	31	480.	831.29	2640.	100.	383964.946	619.649	364.	410.	1340.	1690.
01092p	ZINC, TOTAL (UG/L AS ZN)	01/20/78-03/19/93	24	1200.	1551.25	6000.	560.	1167237.5	1080.388	900.	1055.	1525.	2645.
72034p	FLOW, INSTANTANEOUS SPILLWAY DISCHARGE CFS	01/09/78-03/19/93	26	312.	372.423	1512.	2.	109323.614	330.641	28.3	161.5	465.75	813.5

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

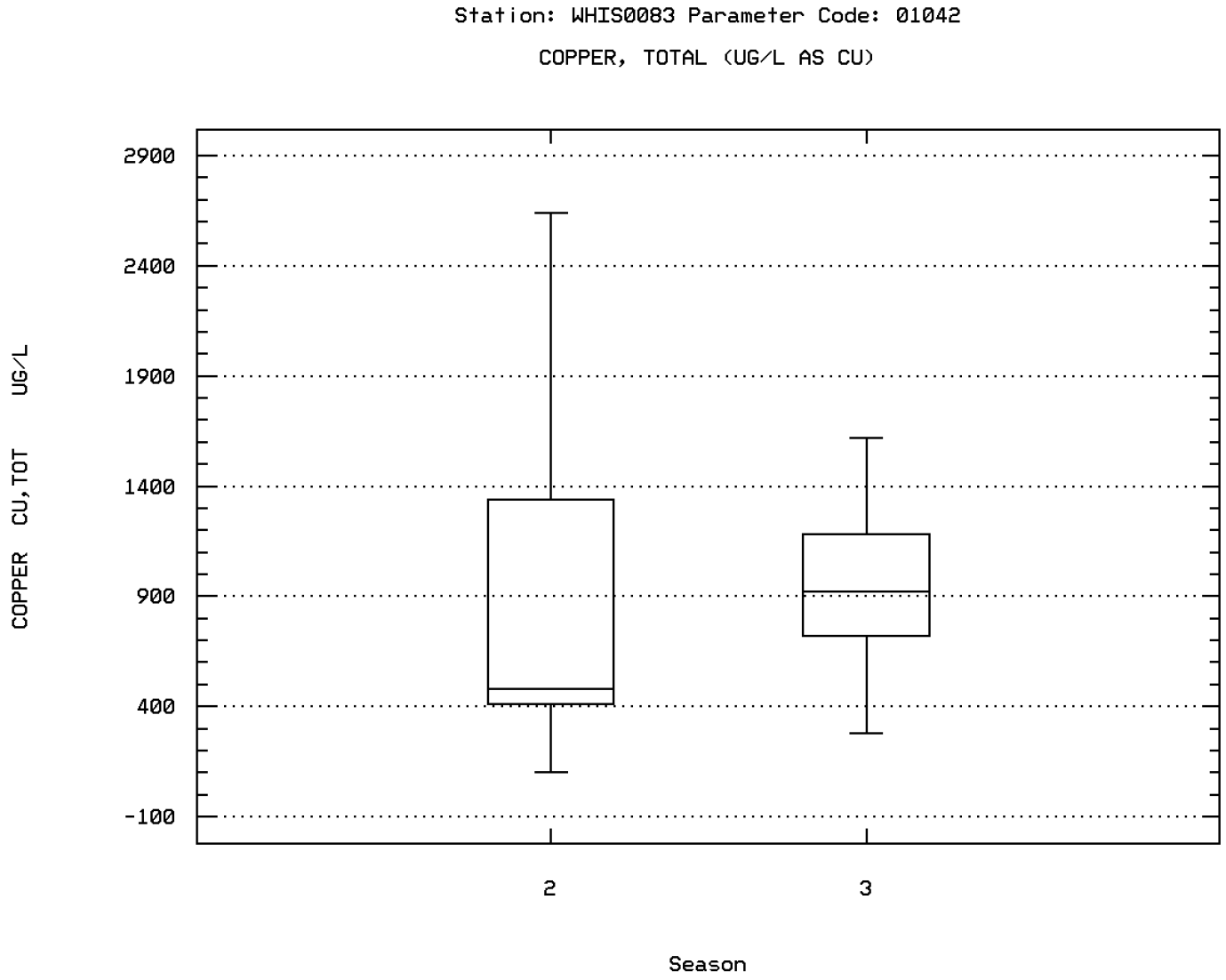
Seasonal Analysis for Season #3: 2/21 to 5/31 - Station WHIS0083

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403p	PH, LAB, STANDARD UNITS SU	11/24/81-03/19/93	154	3.4	3.347	4.9	2.8	0.065	0.255	3.	3.1	3.5	3.6
00403p	CONVERTED PH, LAB, STANDARD UNITS	11/24/81-03/19/93	154	3.4	3.282	4.9	2.8	0.069	0.263	3.	3.1	3.5	3.6
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/24/81-03/19/93	154	398.107	522.392	1584.893	12.589	82538.084	287.294	251.189	316.228	794.328	1000.
01042p	COPPER, TOTAL (UG/L AS CU)	01/21/76-03/19/93	154	920.	973.364	1620.	280.	90620.73	301.033	635.	720.	1182.5	1485.
01092p	ZINC, TOTAL (UG/L AS ZN)	01/20/78-03/19/93	154	3165.	3389.805	6750.	1070.	2217510.419	1489.131	1310.	2185.	4645.	5425.
72034p	FLOW, INSTANTANEOUS SPILLWAY DISCHARGE CFS	01/09/78-03/19/93	162	59.5	82.006	531.	0.	6952.068	83.379	18.6	43.75	91.75	141.9

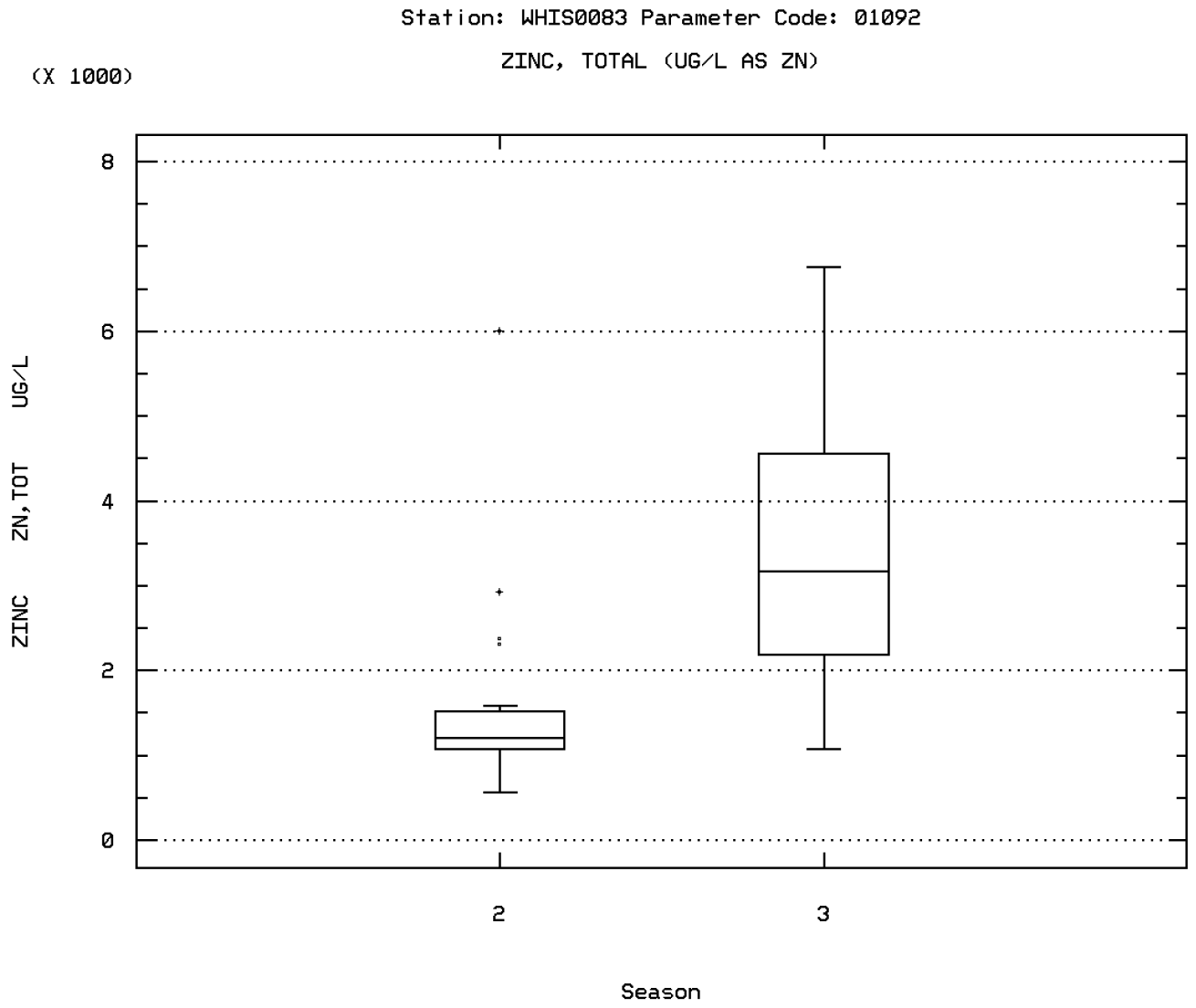
** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot



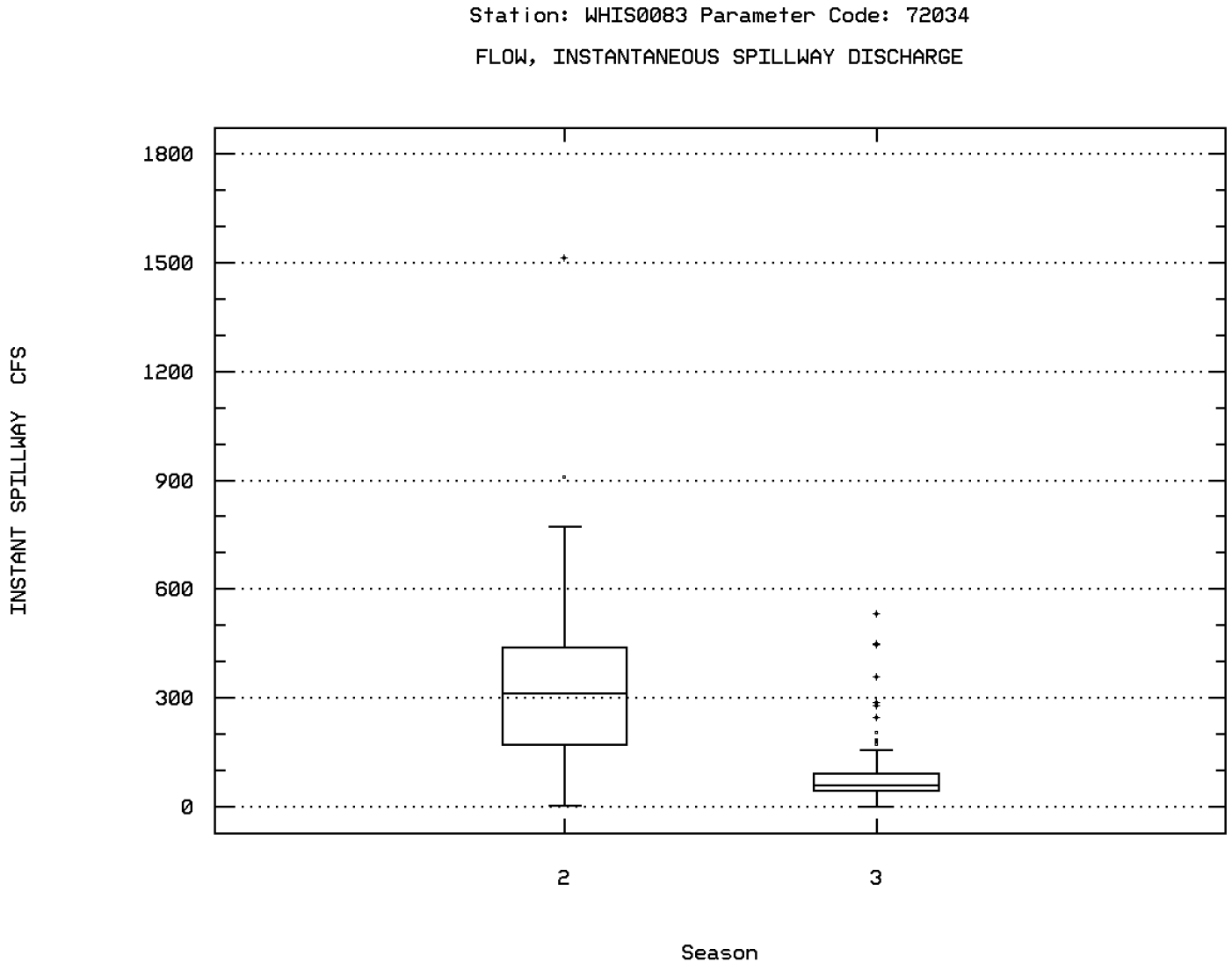
SPRING CREEK DEBRIS DAM RESERVOIR SPILL



SPRING CREEK DEBRIS DAM RESERVOIR SPILL



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SPRING CREEK DEBRIS DAM RESERVOIR SPILL

Station Inventory for Station: WHIS0084

NPS Station ID: WHIS0084 LAT/LON: 40.630282/-122.473893 Agency: 113BUREC Date Created: 01/03/87
Location: SPRING CREEK DEBRIS DAM RESERVOIR SURFACE @ DAM FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): CRSPRSRF /SPCKSURFAC /SH19
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 18020112 Depth of Water: 0 Aquifer:
Major Basin: CALIFORNIA Elevation: 0 Water Body Id:
Minor Basin: SACRAMENTO RIVER ECO Region:
RF1 Index: 18020112 RF1 Mile Point: 0.000 Distance from RF1: 2.00 On/Off RF1:
RF3 Index: 18020112000300.00 RF3 Mile Point: 0.00 Distance from RF3: 0.00 On/Off RF3:
Description:
SPRING CREEK DEBRIS DAM RESERVOIR SURFACE AT THE DAM, ON SPRING CREEK

Parameter Inventory for Station: WHIS0084

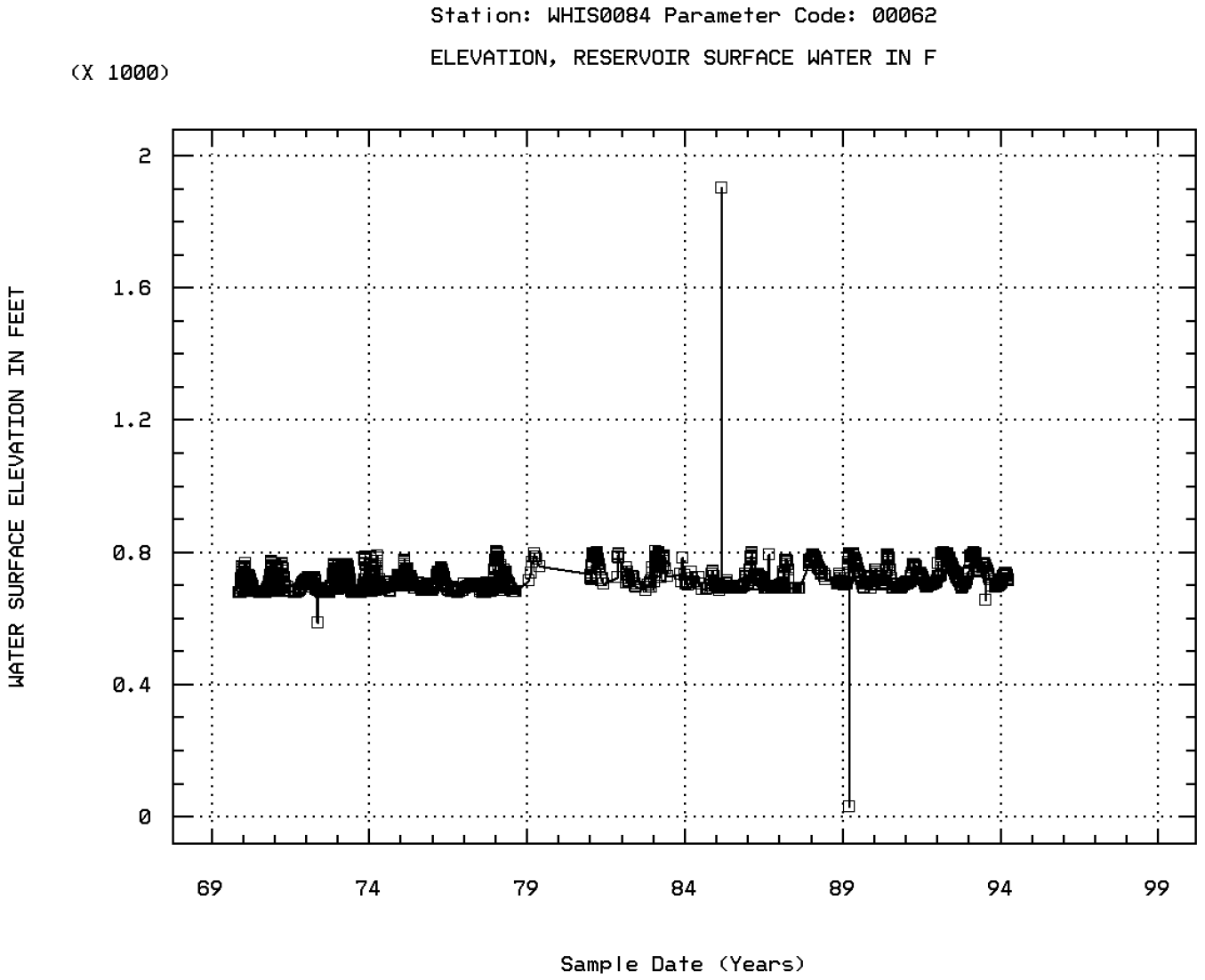
Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	11/21/69-03/31/94	2260	719.85	729.454	1901.	30.	2320.786	48.175	685.1	695.8	762.4	791.4
00403p	PH, LAB, STANDARD UNITS SU	03/19/79-03/31/94	576	3.2	3.186	6.6	2.4	0.126	0.355	2.8	3.	3.4	3.5
00403p	CONVERTED PH, LAB, STANDARD UNITS	03/19/79-03/31/94	576	3.2	3.08	6.6	2.4	0.137	0.37	2.8	3.	3.4	3.5
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/19/79-03/31/94	576	630.957	831.105	3981.072	0.251	343518.942	586.105	316.228	398.107	1000.	1584.893
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/23/86-01/23/86	6	15.	94.167	491.	10.	37807.767	194.442	**	**	**	**
01042p	COPPER, TOTAL (UG/L AS CU)	12/11/69-03/31/94	659	1260.	1727.95	12300.	2.	2128019.032	1458.773	580.	900.	1990.	3200.
01092p	ZINC, TOTAL (UG/L AS ZN)	10/22/70-03/31/94	652	4500.	8280.796	74600.	9.	132849915.711	11526.054	1550.	2322.5	8202.5	18405.
72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	01/26/79-01/23/86	100	722.75	727.551	795.27	680.	956.135	30.921	690.	700.	750.	771.8

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

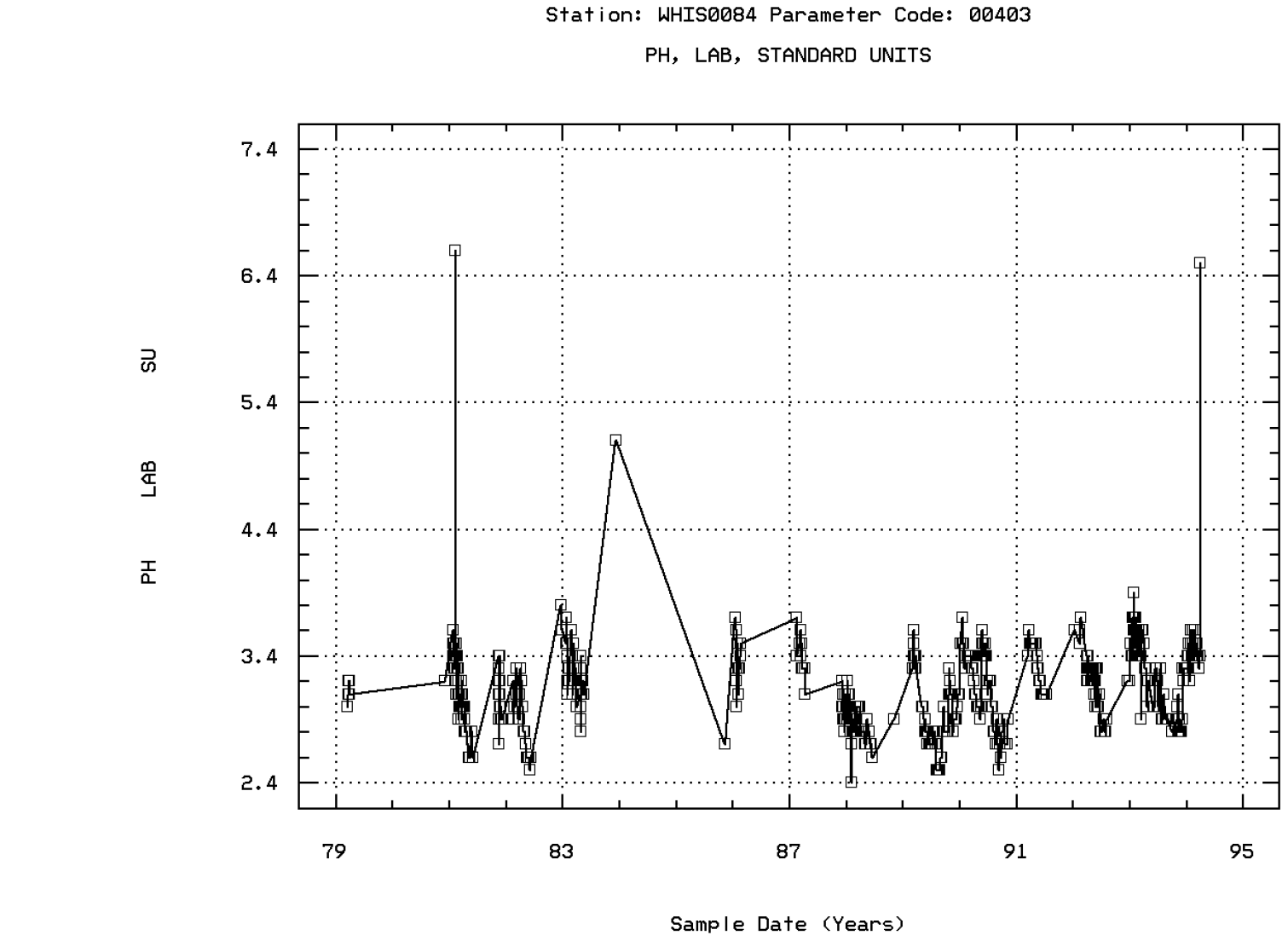
EPA Water Quality Criteria Analysis for Station: WHIS0084

				Total	Exceed	Prop.	----------6/01-11/09----------			----------11/10-2/20----------			----------2/21-5/31----------			--------------n/a--------------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00403	PH, LAB	Fresh Chronic	9.	576	0	0.00	106	0	0.00	212	0	0.00	258	0	0.00			
		Other-Lo Lim.	6.5	576	575	1.00	106	106	1.00	212	211	1.00	258	258	1.00			
01042	COPPER, TOTAL	Fresh Acute	18.	659	658	1.00	107	106	0.99	230	230	1.00	322	322	1.00			
		Drinking Water	1300.	659	323	0.49	107	90	0.84	230	69	0.30	322	164	0.51			
01092	ZINC, TOTAL	Fresh Acute	120.	652	651	1.00	107	106	0.99	223	223	1.00	322	322	1.00			
		Drinking Water	5000.	652	307	0.47	107	92	0.86	223	52	0.23	322	163	0.51			

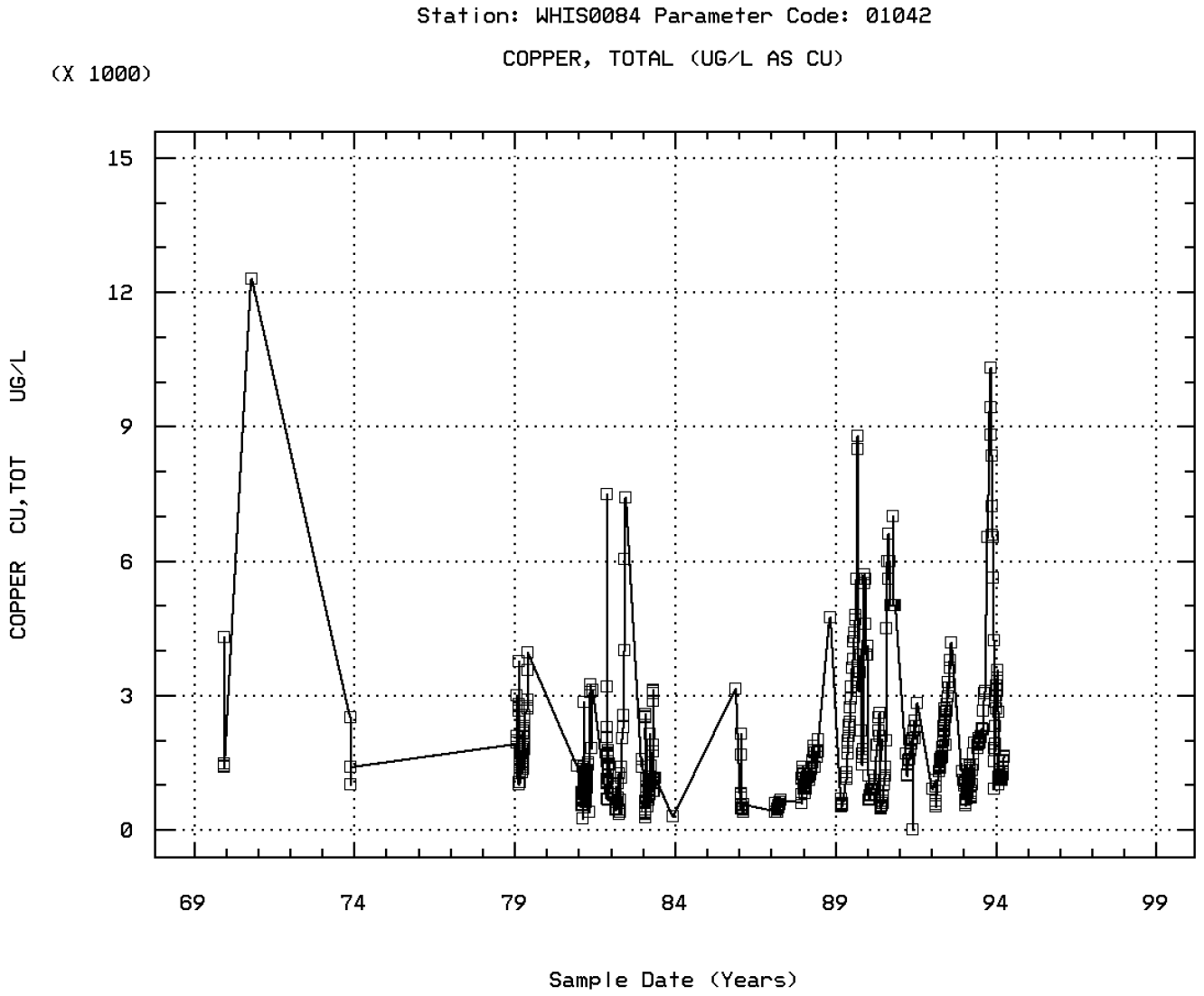
& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter



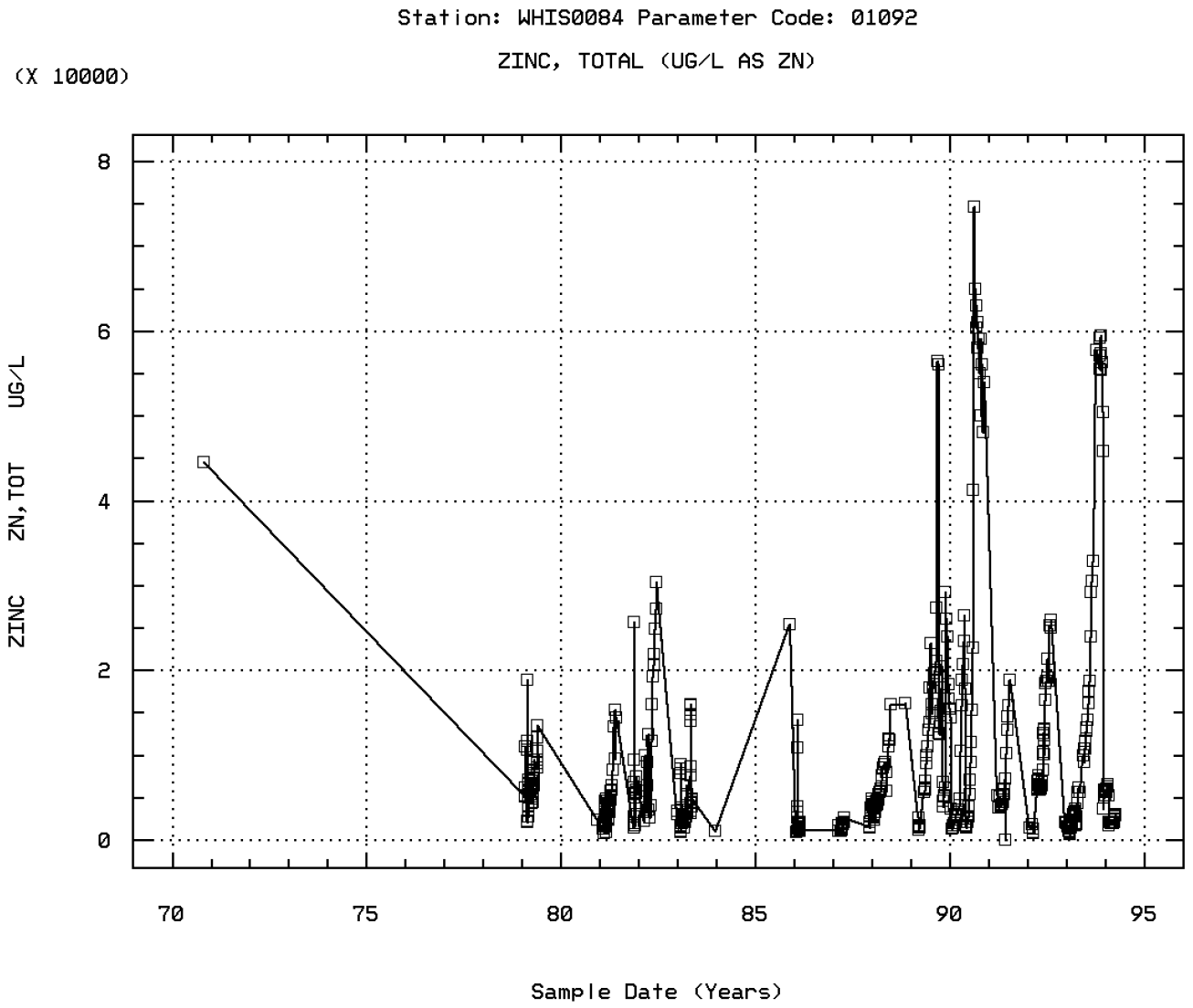
SPRING CREEK DEBRIS DAM RESERVOIR SURFA



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SPRING CREEK DEBRIS DAM RESERVOIR SURFA

Annual Analysis for 1969 - Station WHIS0084

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	11/21/69-03/31/94	53	705.	706.94	756.	679.1	786.955	28.053	679.1	679.1	728.1	753.18
01042p	COPPER, TOTAL (UG/L AS CU)	12/11/69-03/31/94	4	1450.	2147.5	4300.	1390.	2060625.	1435.488	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0084

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	11/21/69-03/31/94	218	702.05	707.109	771.1	679.1	616.261	24.825	679.5	681.825	724.525	746.01
01042p	COPPER, TOTAL (UG/L AS CU)	12/11/69-03/31/94	1	12300.	12300.	12300.	12300.	0.	0.	**	**	**	**
01092p	ZINC, TOTAL (UG/L AS ZN)	10/22/70-03/31/94	1	44500.	44500.	44500.	44500.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0084

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	11/21/69-03/31/94	132	695.75	704.062	765.2	679.1	461.618	21.485	684.2	688.3	711.1	740.23

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

Annual Analysis for 1972 - Station WHIS0084

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	11/21/69-03/31/94	148	705.35	704.538	762.5	587.2	468.404	21.643	679.2	688.425	716.175	727.58

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

Annual Analysis for 1973 - Station WHIS0084

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	11/21/69-03/31/94	202	735.05	727.789	787.	679.2	1042.692	32.291	679.67	697.775	756.5	763.5
01042p	COPPER, TOTAL (UG/L AS CU)	12/11/69-03/31/94	3	1400.	1633.333	2500.	1000.	603333.333	776.745	**	**	**	**

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

Annual Analysis for 1974 - Station WHIS0084

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	11/21/69-03/31/94	97	695.1	706.879	789.1	681.	678.433	26.047	684.	689.	721.55	745.12

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

Annual Analysis for 1975 - Station WHIS0084

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	11/21/69-03/31/94	91	708.8	714.552	777.	684.	450.295	21.22	690.36	700.8	724.4	747.7

** - 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 1976 - Station WHIS0084

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	11/21/69-03/31/94	72	700.8	709.661	751.6	679.	603.535	24.567	679.5	685.525	734.875	743.89

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0084

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	11/21/69-03/31/94	129	695.1	698.305	750.5	679.2	275.455	16.597	683.9	685.5	704.	722.5

** - 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 1978 - Station WHIS0084

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	11/21/69-03/31/94	97	718.8	728.569	802.	681.5	1601.26	40.016	681.6	693.85	755.9	796.42

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

Annual Analysis for 1979 - Station WHIS0084

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	11/21/69-03/31/94	75	780.2	772.757	795.3	714.5	487.751	22.085	736.2	757.7	786.8	795.3
00403p	PH, LAB, STANDARD UNITS SU	03/19/79-03/31/94	5	3.1	3.12	3.2	3.	0.007	0.084	**	**	**	**
00403p	CONVERTED PH, LAB, STANDARD UNITS	03/19/79-03/31/94	5	3.1	3.113	3.2	3.	0.007	0.084	**	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/19/79-03/31/94	5	794.328	770.114	1000.	630.957	23187.345	152.274	**	**	**	**
01042p	COPPER, TOTAL (UG/L AS CU)	12/11/69-03/31/94	79	1750.	1905.443	3950.	1000.	364994.352	604.148	1350.	1600.	2100.	2750.
01092p	ZINC, TOTAL (UG/L AS ZN)	10/22/70-03/31/94	79	6300.	6724.051	18800.	2040.	6633644.92	2575.586	4400.	5800.	7400.	10500.

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0084

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403p	PH, LAB, STANDARD UNITS SU	03/19/79-03/31/94	1	3.2	3.2	3.2	3.2	0.	0.	**	**	**	**
00403p	CONVERTED PH, LAB, STANDARD UNITS	03/19/79-03/31/94	1	3.2	3.2	3.2	3.2	0.	0.	**	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/19/79-03/31/94	1	630.957	630.957	630.957	630.957	0.	0.	**	**	**	**
01042p	COPPER, TOTAL (UG/L AS CU)	12/11/69-03/31/94	1	1420.	1420.	1420.	1420.	0.	0.	**	**	**	**
01092p	ZINC, TOTAL (UG/L AS ZN)	10/22/70-03/31/94	1	2330.	2330.	2330.	2330.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0084

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	11/21/69-03/31/94	121	786.8	771.642	797.5	702.4	799.634	28.278	721.12	758.1	791.65	794.1
00403p	PH, LAB, STANDARD UNITS SU	03/19/79-03/31/94	102	3.1	3.159	6.6	2.6	0.171	0.413	2.9	3.	3.325	3.4
00403p	CONVERTED PH, LAB, STANDARD UNITS	03/19/79-03/31/94	102	3.1	3.07	6.6	2.6	0.179	0.423	2.9	3.	3.325	3.4
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/19/79-03/31/94	102	794.328	851.894	2511.886	0.251	224547.762	473.865	398.107	475.417	1000.	1258.925
01042p	COPPER, TOTAL (UG/L AS CU)	12/11/69-03/31/94	102	1065.	1210.294	7500.	240.	718535.556	847.665	673.	757.5	1302.5	1762.
01092p	ZINC, TOTAL (UG/L AS ZN)	10/22/70-03/31/94	102	3540.	4053.039	25700.	800.	11039009.484	3322.5	1723.	2110.	4567.5	6364.

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0084

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	11/21/69-03/31/94	24	714.75	715.588	754.3	684.6	365.911	19.129	693.25	697.95	728.05	747.4
00403p	PH, LAB, STANDARD UNITS SU	03/19/79-03/31/94	22	2.95	2.977	3.8	2.5	0.112	0.335	2.6	2.675	3.2	3.51
00403p	CONVERTED PH, LAB, STANDARD UNITS	03/19/79-03/31/94	22	2.947	2.874	3.8	2.5	0.124	0.351	2.6	2.675	3.2	3.51
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/19/79-03/31/94	22	1129.463	1337.012	3162.278	158.489	729490.179	854.102	326.188	630.957	2124.418	2511.886
01042p	COPPER, TOTAL (UG/L AS CU)	12/11/69-03/31/94	22	1095.	1720.	7420.	340.	3445628.571	1856.24	408.	575.	2100.	5431.
01092p	ZINC, TOTAL (UG/L AS ZN)	10/22/70-03/31/94	22	7845.	11182.727	30400.	2190.	82282639.827	9070.978	2638.	3417.5	19620.	26580.

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0084

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	11/21/69-03/31/94	52	779.	768.667	800.8	709.5	517.775	22.755	727.56	757.	782.35	790.69
00403p	PH, LAB, STANDARD UNITS SU	03/19/79-03/31/94	48	3.2	3.298	5.1	2.8	0.107	0.327	3.	3.125	3.4	3.51
00403p	CONVERTED PH, LAB, STANDARD UNITS	03/19/79-03/31/94	48	3.2	3.228	5.1	2.8	0.112	0.335	3.	3.125	3.4	3.51
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/19/79-03/31/94	48	630.957	591.677	1584.893	7.943	78496.359	280.172	309.724	398.107	753.486	1000.
01042p	COPPER, TOTAL (UG/L AS CU)	12/11/69-03/31/94	48	960.	1204.583	3130.	260.	659344.504	812.	397.	682.5	1355.	2609.
01092p	ZINC, TOTAL (UG/L AS ZN)	10/22/70-03/31/94	48	3115.	4571.042	15920.	970.	15236392.509	3903.382	1436.	2045.	5210.	9452.

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0084

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	11/21/69-03/31/94	29	704.4	708.062	743.9	687.3	294.176	17.152	689.4	691.3	722.1	739.1

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

Annual Analysis for 1985 - Station WHIS0084

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	11/21/69-03/31/94	42	695.55	727.493	1901.	685.3	34500.367	185.743	691.7	693.3	700.25	719.92
00403p	PH, LAB, STANDARD UNITS SU	03/19/79-03/31/94	1	2.7	2.7	2.7	2.7	0.	0.	**	**	**	**
00403p	CONVERTED PH, LAB, STANDARD UNITS	03/19/79-03/31/94	1	2.7	2.7	2.7	2.7	0.	0.	**	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/19/79-03/31/94	1	1995.262	1995.262	1995.262	1995.262	0.	0.	**	**	**	**
01042p	COPPER, TOTAL (UG/L AS CU)	12/11/69-03/31/94	1	3140.	3140.	3140.	3140.	0.	0.	**	**	**	**
01092p	ZINC, TOTAL (UG/L AS ZN)	10/22/70-03/31/94	1	25350.	25350.	25350.	25350.	0.	0.	**	**	**	**

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

Annual Analysis for 1986 - Station WHIS0084

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	11/21/69-03/31/94	78	729.45	737.978	799.9	690.7	1768.917	42.058	690.99	691.425	786.175	798.
00403p	PH, LAB, STANDARD UNITS SU	03/19/79-03/31/94	15	3.3	3.333	3.7	3.	0.042	0.206	3.	3.2	3.5	3.64
00403p	CONVERTED PH, LAB, STANDARD UNITS	03/19/79-03/31/94	15	3.3	3.288	3.7	3.	0.045	0.211	3.	3.2	3.5	3.64
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/19/79-03/31/94	15	501.187	515.248	1000.	199.526	61727.762	248.451	230.524	316.228	630.957	1000.
01042p	COPPER, TOTAL (UG/L AS CU)	12/11/69-03/31/94	15	540.	734.667	2140.	400.	250783.81	500.783	430.	460.	780.	1864.
01092p	ZINC, TOTAL (UG/L AS ZN)	10/22/70-03/31/94	15	1840.	3304.667	14190.	950.	15234740.952	3903.171	986.	1160.	3240.	12234.

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

Annual Analysis for 1987 - Station WHIS0084

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	11/21/69-03/31/94	49	720.8	729.218	775.9	690.9	1366.438	36.965	691.	691.4	771.6	775.
00403p	PH, LAB, STANDARD UNITS SU	03/19/79-03/31/94	23	3.3	3.213	3.7	2.8	0.063	0.251	2.9	3.	3.4	3.56
00403p	CONVERTED PH, LAB, STANDARD UNITS	03/19/79-03/31/94	23	3.3	3.146	3.7	2.8	0.068	0.26	2.9	3.	3.4	3.56
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/19/79-03/31/94	23	501.187	713.825	1584.893	199.526	157145.879	396.416	277.204	398.107	1000.	1258.925
01042p	COPPER, TOTAL (UG/L AS CU)	12/11/69-03/31/94	23	590.	758.043	1395.	400.	119669.862	345.933	416.	500.	1160.	1290.
01092p	ZINC, TOTAL (UG/L AS ZN)	10/22/70-03/31/94	23	1940.	2326.087	4800.	1080.	1360833.992	1166.548	1100.	1420.	3360.	4308.

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0084

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	11/21/69-03/31/94	65	769.3	758.743	791.6	702.9	967.298	31.101	707.96	732.15	787.25	790.8
00403p	PH, LAB, STANDARD UNITS SU	03/19/79-03/31/94	52	2.9	2.898	3.2	2.4	0.024	0.154	2.7	2.8	3.	3.1
00403p	CONVERTED PH, LAB, STANDARD UNITS	03/19/79-03/31/94	52	2.9	2.869	3.2	2.4	0.025	0.157	2.7	2.8	3.	3.1
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/19/79-03/31/94	52	1258.925	1350.627	3981.072	630.957	307194.11	554.251	794.328	1000.	1584.893	1995.262
01042p	COPPER, TOTAL (UG/L AS CU)	12/11/69-03/31/94	52	1170.	1267.692	4750.	820.	320543.59	566.166	926.	970.	1315.	1737.
01092p	ZINC, TOTAL (UG/L AS ZN)	10/22/70-03/31/94	52	4420.	5599.808	16100.	2350.	9850954.864	3138.623	2809.	3795.	5940.	10448.

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0084

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	11/21/69-03/31/94	71	728.3	732.159	795.	30.	8502.72	92.21	701.02	705.1	782.5	791.32
00403p	PH, LAB, STANDARD UNITS SU	03/19/79-03/31/94	58	2.9	2.964	3.6	2.5	0.081	0.285	2.6	2.8	3.125	3.4
00403p	CONVERTED PH, LAB, STANDARD UNITS	03/19/79-03/31/94	58	2.9	2.881	3.6	2.5	0.088	0.296	2.6	2.8	3.125	3.4
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/19/79-03/31/94	58	1258.925	1314.492	3162.278	251.189	598128.268	773.388	398.107	753.486	1584.893	2511.886
01042p	COPPER, TOTAL (UG/L AS CU)	12/11/69-03/31/94	59	2200.	2642.542	8800.	520.	3722912.39	1929.485	550.	1170.	3900.	5500.
01092p	ZINC, TOTAL (UG/L AS ZN)	10/22/70-03/31/94	59	11000.	12481.864	56500.	1220.	126628225.774	11252.921	1540.	4600.	18000.	24000.

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Annual Analysis for 1990 - Station WHIS0084

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	11/21/69-03/31/94	68	716.8	729.312	793.8	691.4	1275.458	35.714	692.05	700.625	750.525	791.44
00403p	PH, LAB, STANDARD UNITS SU	03/19/79-03/31/94	58	3.25	3.176	3.7	2.5	0.09	0.3	2.7	2.9	3.4	3.5
00403p	CONVERTED PH, LAB, STANDARD UNITS	03/19/79-03/31/94	58	3.247	3.068	3.7	2.5	0.102	0.32	2.7	2.9	3.4	3.5

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

Annual Analysis for 1990 - Station WHIS0084

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	03/19/79-03/31/94	58	566.072	854.84	3162.278	199.526	430299.15	655.972	316.228	398.107	1258.925	1995.262
01042p	COPPER, TOTAL (UG/L AS CU)	12/11/69-03/31/94	58	1050.	2132.241	7000.	460.	4157256.292	2038.935	470.	587.5	4050.	5640.
01092p	ZINC, TOTAL (UG/L AS ZN)	10/22/70-03/31/94	58	4450.	18881.034	74600.	1300.	535307230.49	23136.707	1490.	1925.	30125.	59130.

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

Annual Analysis for 1991 - Station WHIS0084

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	11/21/69-03/31/94	56	709.55	719.405	763.2	694.	397.882	19.947	698.3	703.85	734.5	753.51
00403p	PH, LAB, STANDARD UNITS SU	03/19/79-03/31/94	20	3.3	3.325	3.6	3.1	0.029	0.171	3.1	3.125	3.5	3.5
00403p	CONVERTED PH, LAB, STANDARD UNITS	03/19/79-03/31/94	20	3.3	3.293	3.6	3.1	0.03	0.174	3.1	3.125	3.5	3.5
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/19/79-03/31/94	20	501.187	509.154	794.328	251.189	39530.517	198.823	316.228	316.228	753.486	794.328
01042p	COPPER, TOTAL (UG/L AS CU)	12/11/69-03/31/94	20	1950.	1799.1	2820.	2.	329294.095	573.842	1203.	1557.5	2037.5	2408.
01092p	ZINC, TOTAL (UG/L AS ZN)	10/22/70-03/31/94	20	5245.	7071.95	18870.	9.	23344928.682	4831.659	3805.	4072.5	9435.	15774.

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0084

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	11/21/69-03/31/94	167	795.2	776.294	798.5	690.8	1010.102	31.782	719.62	765.7	795.8	796.22
00403p	PH, LAB, STANDARD UNITS SU	03/19/79-03/31/94	52	3.2	3.227	3.7	2.8	0.046	0.214	2.9	3.125	3.3	3.57
00403p	CONVERTED PH, LAB, STANDARD UNITS	03/19/79-03/31/94	52	3.2	3.175	3.7	2.8	0.049	0.221	2.9	3.125	3.3	3.57
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/19/79-03/31/94	52	630.957	667.913	1584.893	199.526	121505.213	348.576	270.7	501.187	753.486	1258.925
01042p	COPPER, TOTAL (UG/L AS CU)	12/11/69-03/31/94	52	1630.	1898.231	4180.	520.	632421.005	795.249	1009.	1437.5	2375.	3106.
01092p	ZINC, TOTAL (UG/L AS ZN)	10/22/70-03/31/94	52	6960.	9068.654	25950.	840.	41024207.956	6405.014	1620.	5990.	12227.5	19001.

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Annual Analysis for 1993 - Station WHIS0084

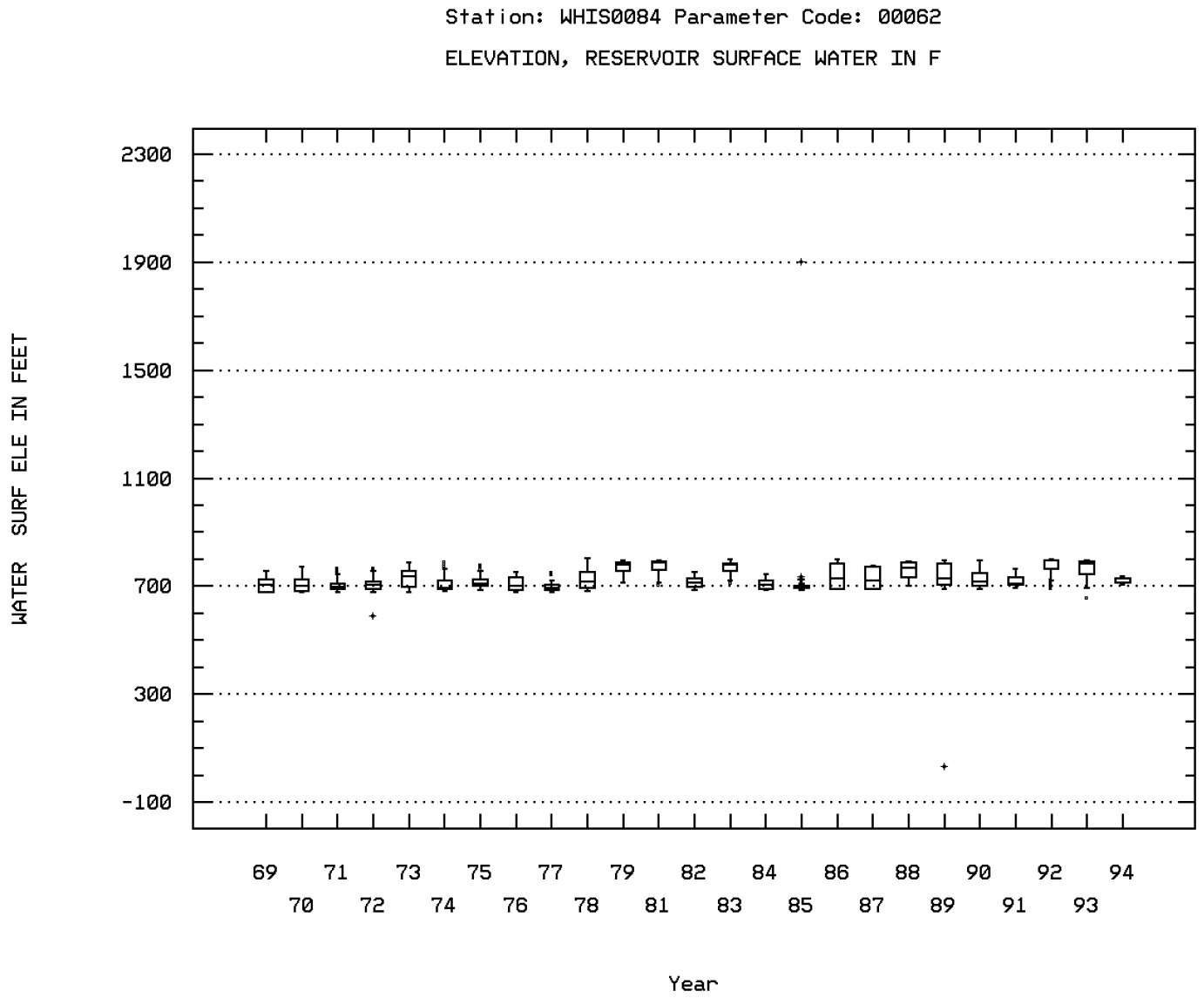
Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	11/21/69-03/31/94	98	785.5	763.305	797.3	654.6	1312.779	36.232	696.17	742.675	790.675	793.93
00403p	PH, LAB, STANDARD UNITS SU	03/19/79-03/31/94	93	3.4	3.342	3.9	2.8	0.077	0.277	2.9	3.15	3.6	3.6
00403p	CONVERTED PH, LAB, STANDARD UNITS	03/19/79-03/31/94	93	3.4	3.248	3.9	2.8	0.085	0.292	2.9	3.15	3.6	3.6
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/19/79-03/31/94	93	398.107	564.709	1584.893	125.893	164945.322	406.135	251.189	251.189	712.643	1258.925
01042p	COPPER, TOTAL (UG/L AS CU)	12/11/69-03/31/94	93	1180.	1982.624	10320.	550.	4182566.194	2045.132	716.2	910.	1960.	5060.
01092p	ZINC, TOTAL (UG/L AS ZN)	10/22/70-03/31/94	93	2980.	10688.71	59400.	630.	285959637.447	16910.341	1148.	1685.	10345.	48548.

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

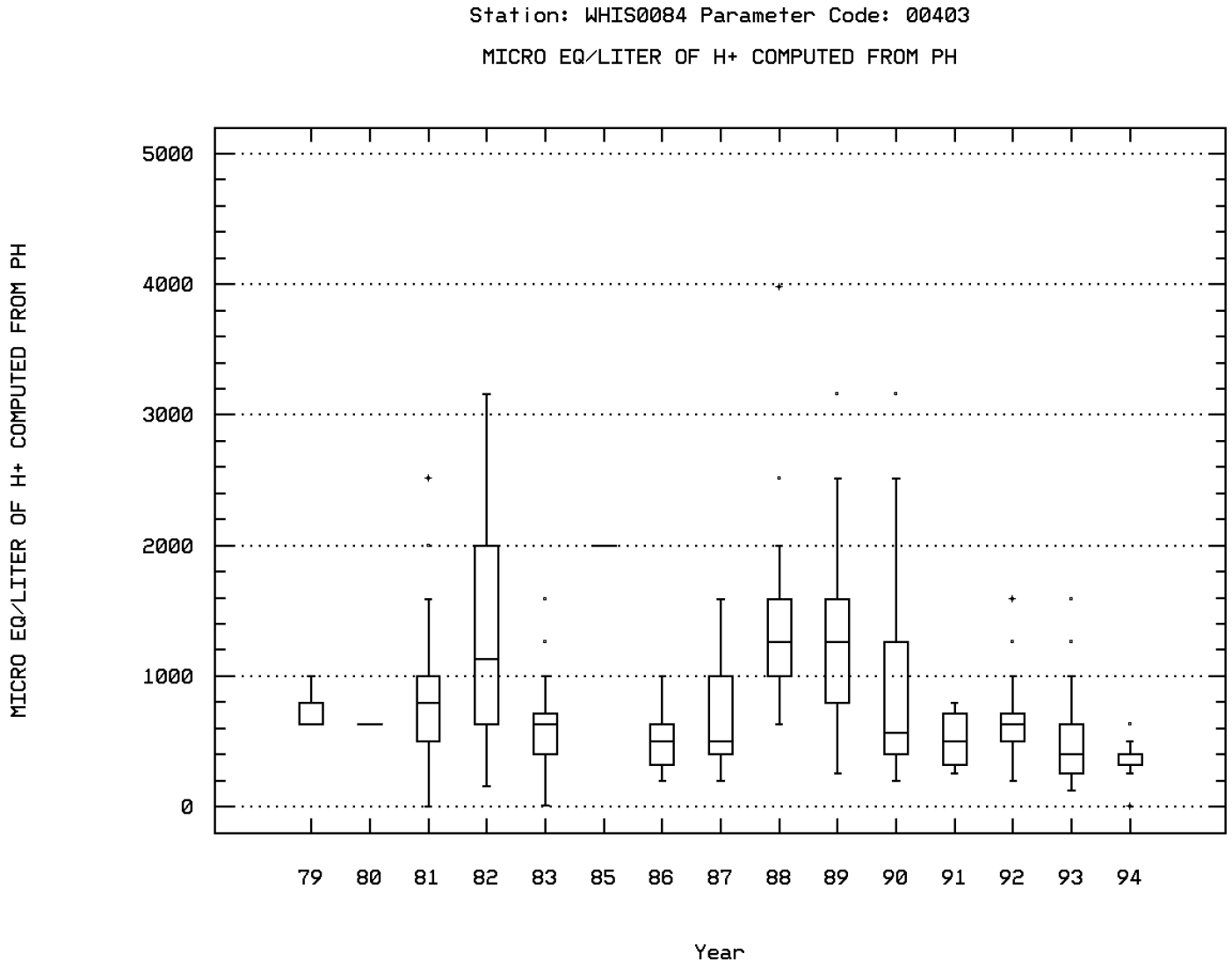
Annual Analysis for 1994 - Station WHIS0084

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	11/21/69-03/31/94	26	727.9	723.373	737.8	704.	124.922	11.177	706.04	713.	730.675	737.
00403p	PH, LAB, STANDARD UNITS SU	03/19/79-03/31/94	26	3.4	3.535	6.5	3.2	0.378	0.614	3.27	3.375	3.5	3.6
00403p	CONVERTED PH, LAB, STANDARD UNITS	03/19/79-03/31/94	26	3.4	3.419	6.5	3.2	0.391	0.626	3.27	3.375	3.5	3.6
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/19/79-03/31/94	26	398.107	380.73	630.957	0.316	16252.306	127.485	251.189	316.228	423.877	540.118
01042p	COPPER, TOTAL (UG/L AS CU)	12/11/69-03/31/94	26	1260.	1757.692	3560.	1000.	730506.462	854.697	1107.	1167.5	2647.5	3271.
01092p	ZINC, TOTAL (UG/L AS ZN)	10/22/70-03/31/94	26	2145.	3231.154	6620.	1730.	3211858.615	1792.166	1920.	2017.5	5367.5	6332.

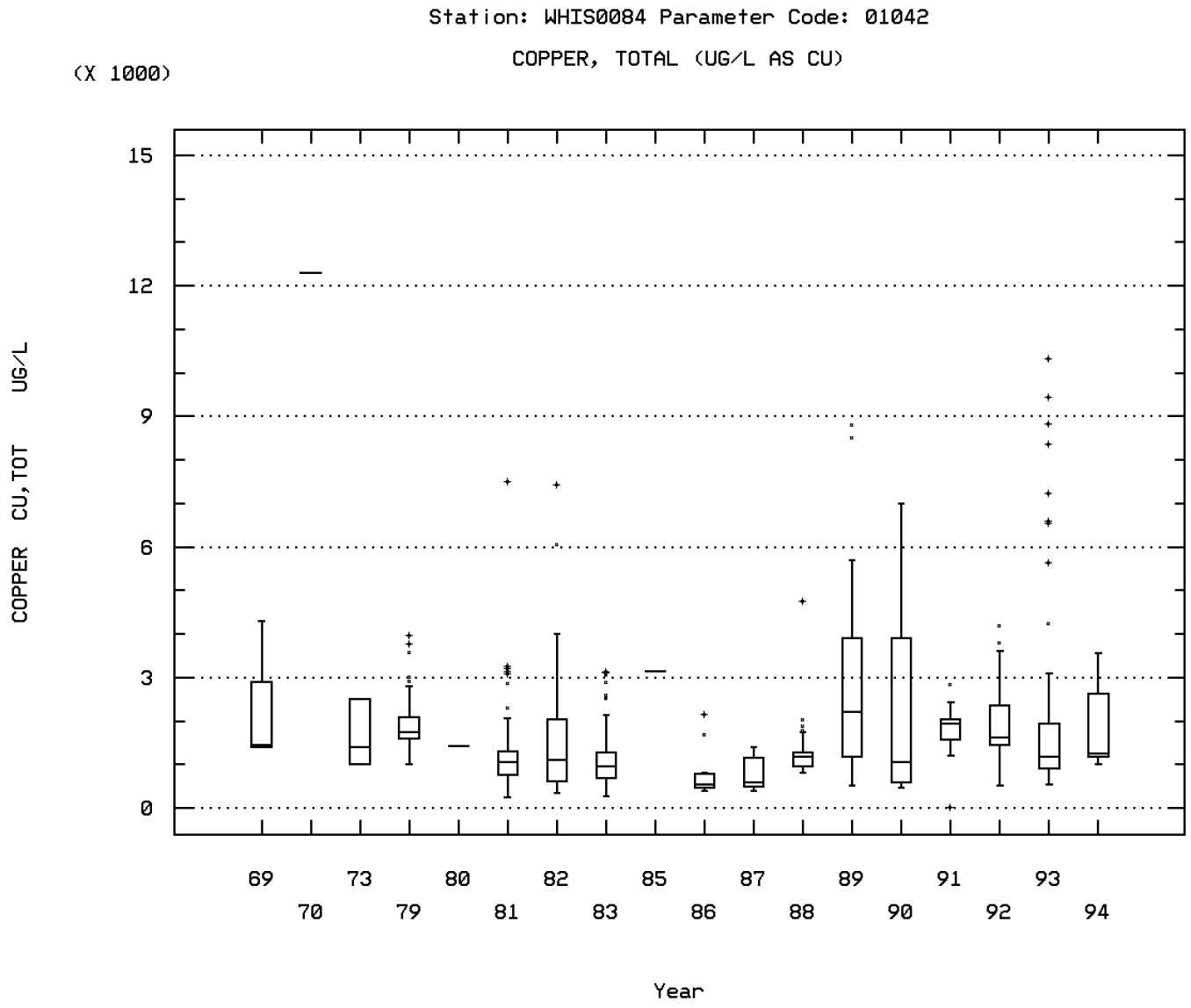
** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot



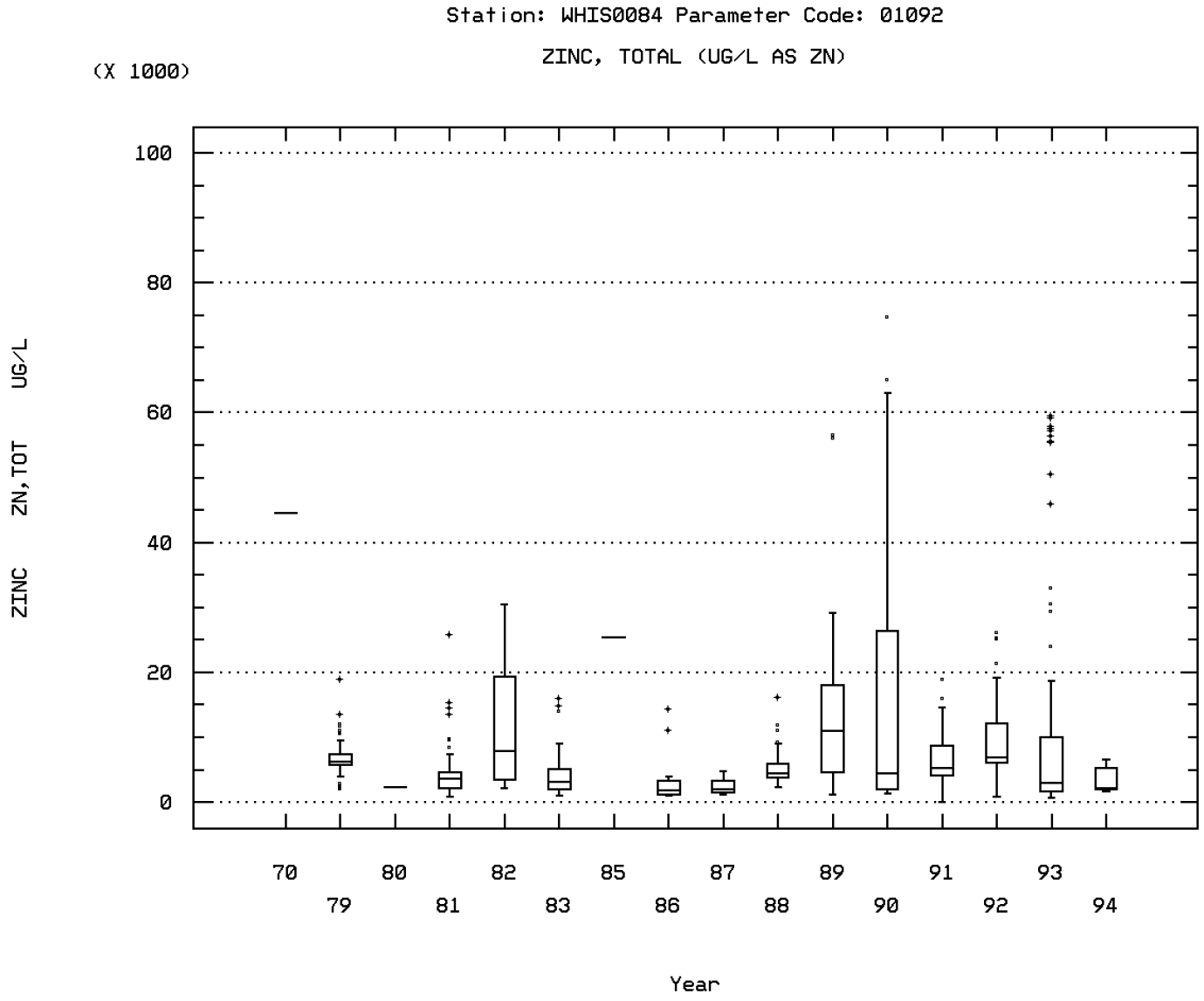
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Seasonal Analysis for Season #1: 6/01 to 11/09 - Station WHIS0084

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	11/21/69-03/31/94	483	692.9	700.652	793.8	654.6	626.979	25.04	679.24	684.1	705.4	735.28
00403p	PH, LAB, STANDARD UNITS SU	03/19/79-03/31/94	106	2.9	2.95	3.5	2.5	0.073	0.269	2.6	2.7	3.1	3.4
00403p	CONVERTED PH, LAB, STANDARD UNITS	03/19/79-03/31/94	106	2.9	2.874	3.5	2.5	0.078	0.28	2.6	2.7	3.1	3.4
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/19/79-03/31/94	106	1258.925	1337.108	3162.278	316.228	578776.466	760.774	398.107	794.328	1995.262	2511.886
01042p	COPPER, TOTAL (UG/L AS CU)	12/11/69-03/31/94	107	2650.	3268.523	12300.	2.	5301165.007	2302.426	588.	1890.	4400.	6138.
01092p	ZINC, TOTAL (UG/L AS ZN)	10/22/70-03/31/94	107	16000.	21929.897	74600.	9.	341968678.678	18492.395	2780.	10810.	25950.	57220.

** - Less than 9 observations ## - Computed 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: 11/10 to 2/20 - Station WHIS0084

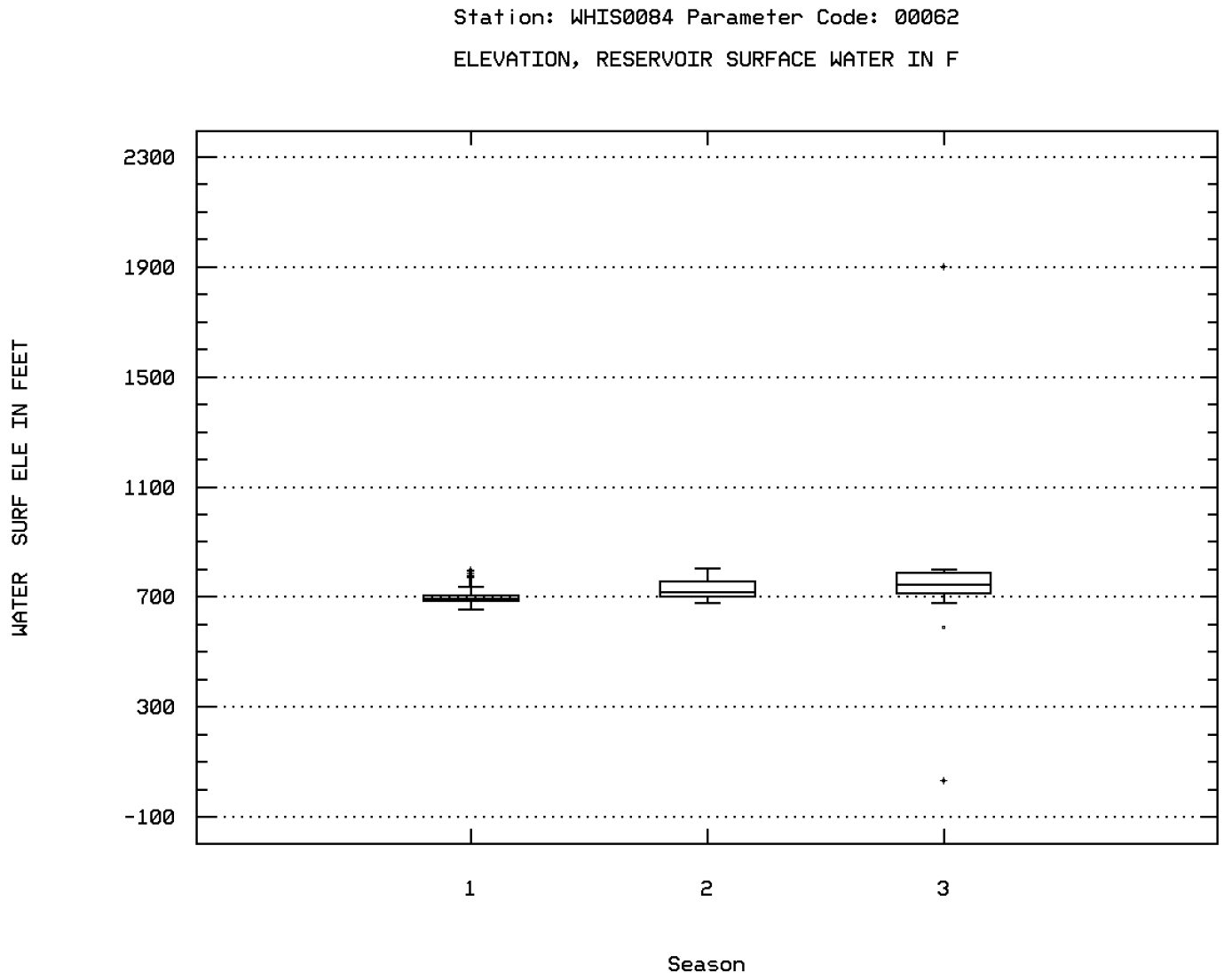
Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	11/21/69-03/31/94	911	717.7	728.432	802.	679.1	1326.654	36.423	687.32	699.9	755.9	789.
00403p	PH, LAB, STANDARD UNITS SU	03/19/79-03/31/94	212	3.3	3.293	6.6	2.4	0.144	0.38	2.9	3.025	3.5	3.6
00403p	CONVERTED PH, LAB, STANDARD UNITS	03/19/79-03/31/94	212	3.3	3.182	6.6	2.4	0.157	0.396	2.9	3.025	3.5	3.6
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/19/79-03/31/94	212	501.187	657.126	3981.072	0.251	226547.382	475.97	251.189	316.228	948.582	1258.925
01042p	COPPER, TOTAL (UG/L AS CU)	12/11/69-03/31/94	230	1000.	1468.9	8350.	240.	1799578.221	1341.484	560.	745.	1457.5	3108.
01092p	ZINC, TOTAL (UG/L AS ZN)	10/22/70-03/31/94	223	2350.	5561.614	59400.	630.	97265973.959	9862.351	1300.	1710.	4750.	10132.
72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	01/26/79-01/23/86	30	712.25	716.748	775.	683.	636.18	25.223	690.	694.75	731.558	752.7

** - 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

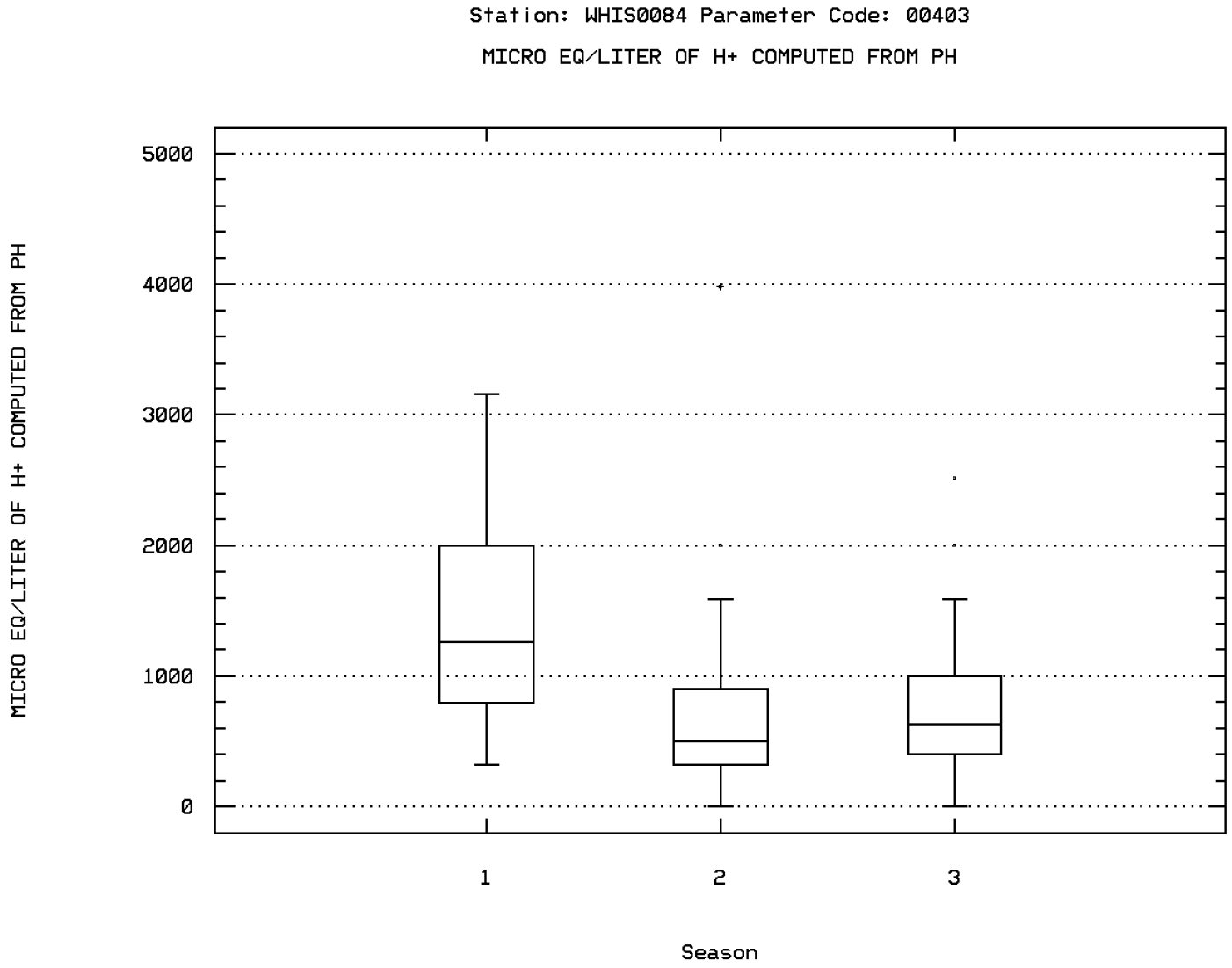
Seasonal Analysis for Season #3: 2/21 to 5/31 - Station WHIS0084

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00062p	ELEVATION, RESERVOIR SURFACE WATER IN FEET	11/21/69-03/31/94	866	743.85	746.592	1901.	30.	3557.477	59.645	693.8	714.275	786.15	795.33
00403p	PH, LAB, STANDARD UNITS SU	03/19/79-03/31/94	258	3.2	3.195	6.5	2.6	0.101	0.317	2.8	3.	3.4	3.5
00403p	CONVERTED PH, LAB, STANDARD UNITS	03/19/79-03/31/94	258	3.2	3.116	6.5	2.6	0.107	0.327	2.8	3.	3.4	3.5
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/19/79-03/31/94	258	630.957	766.173	2511.886	0.316	211305.481	459.68	316.228	398.107	1000.	1584.893
01042p	COPPER, TOTAL (UG/L AS CU)	12/11/69-03/31/94	322	1315.	1401.056	3950.	340.	381358.252	617.542	589.	1017.5	1712.5	2178.
01092p	ZINC, TOTAL (UG/L AS ZN)	10/22/70-03/31/94	322	5010.	5628.385	26400.	860.	14939174.331	3865.123	1920.	2967.5	6540.	9830.
72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	01/26/79-01/23/86	70	730.	732.181	795.27	680.	1031.974	32.124	688.65	704.125	760.	780.

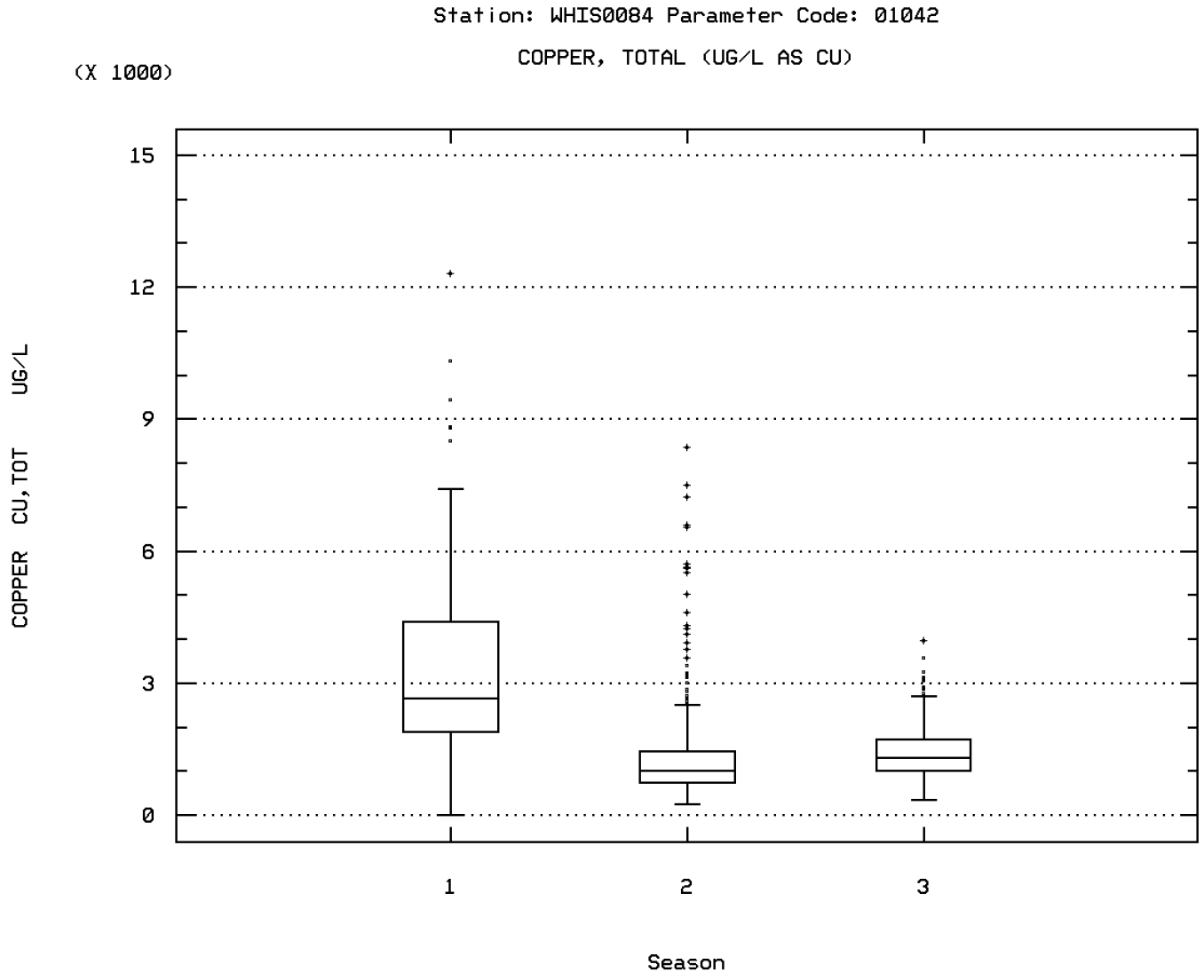
** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot



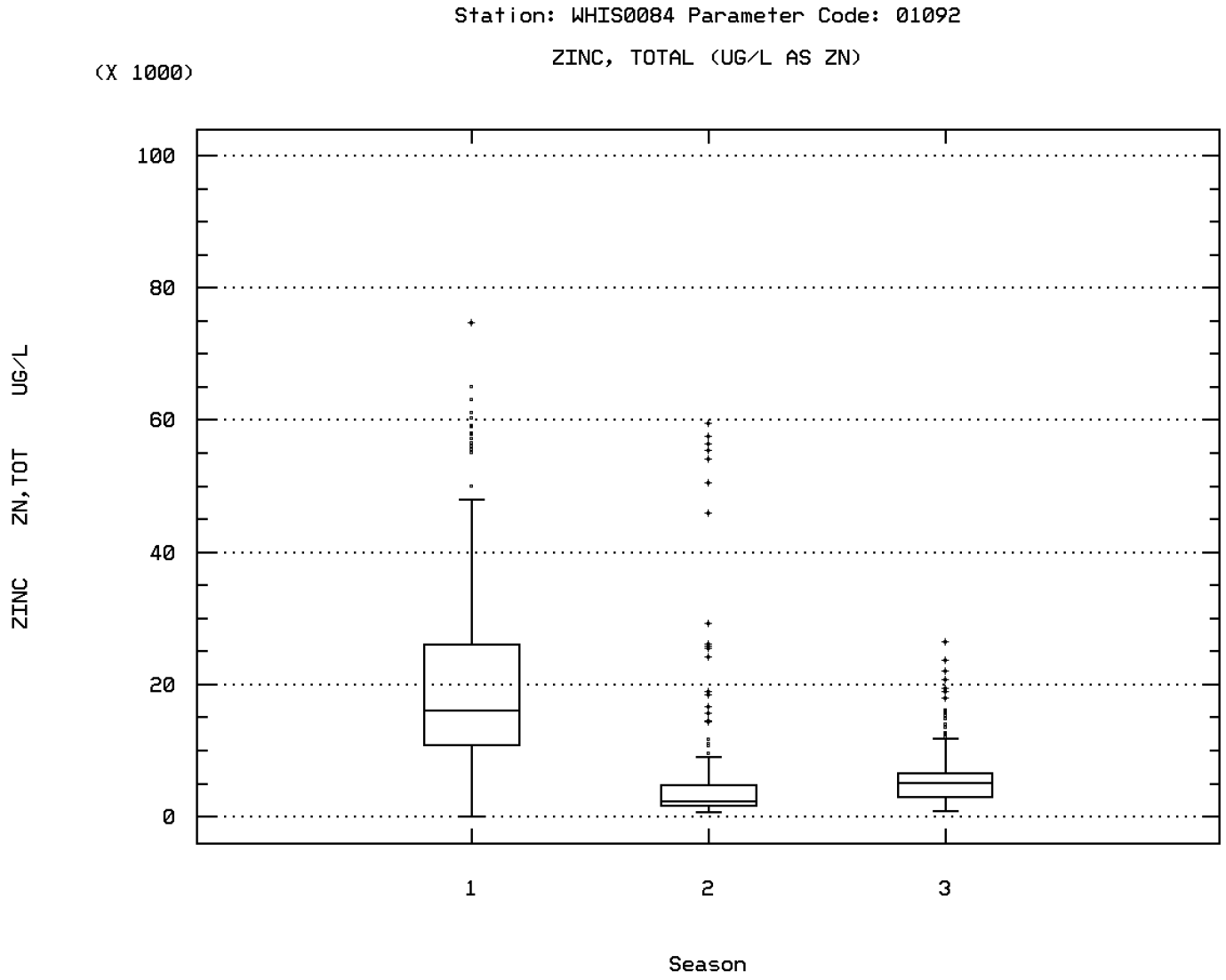
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Station Inventory for Station: WHIS0085

NPS Station ID: WHIS0085
LAT/LON: 40.630559/-122.490003
Agency: 21CAL-1
Date Created: 02/14/81
Location: SPRING CR BELOW SF SPRING CR
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): A2101850
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 18020112
Depth of Water: 0
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112003
RF1 Mile Point: 1.990
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 18020112000300.00
RF3 Mile Point: 0.00
Distance from RF3: 0.08
On/Off RF3:
Description:

Parameter Inventory for Station: WHIS0085

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: WHIS0086

NPS Station ID: WHIS0086 | LAT/LON: 40.630726/-122.593170 | Agency: 11NPSWRD | Date Created: 05/23/98
Location: DRY CREEK SPRINGS | FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): WHIS_CDHS_2
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 | Depth of Water: 0 | Aquifer:
Major Basin: CALIFORNIA | Elevation: 0 | Water Body Id:
Minor Basin: SACRAMENTO RIVER | ECO Region:
RF1 Index: 18020112 | RF1 Mile Point: 0.000 | Distance from RF1: 0.80 | On/Off RF1:
RF3 Index: 18010211001600.95 | RF3 Mile Point: 5.98 | Distance from RF3: 0.04 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE WHISKEYTOWN CA-SHASTA COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS INSIDE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT) AND IS DESCRIBED BY THE CALIFORNIA DEPARTMENT OF HEALTH SERVICES (CDHS) AS "DRY CREEK SPRINGS." SINCE THE EXACT LOCATION OF THE SPRING WAS NOT AVAILABLE; THE COORDINATE VALUES WERE OBTAINED BY DIGITIZING THE NORTHERN-MOST SPRING ON THE QUADRANGLE. THE CDHS DATA WERE OBTAINED FROM THE NATIONAL PARK SERVICE (NPS) AND THREE COMMUNITY SERVICE DISTRICTS. FOR MORE INFORMATION ON THE DATA CONTACT THE CDHS; DRINKING WATER PROGRAM; PO BOX 942732 MS 92; SACRAMENTO CA 94234 (TEL 916-323-4670). FOR MORE INFORMATION ON THE WHISKEYTOWN UNIT OF THE PARK CONTACT RESOURCE MANAGEMENT AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; PO BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE UPLOADED TO STORET BY DONNIE DUSTIN; NPS WATER RESOURCES DIVISION 1201 OAK RIDGE DRIVE; FORT COLLINS CO 80525 (TEL 970-225-3516).

Parameter Inventory for Station: WHIS0086

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	12/05/95-12/05/95	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	12/05/95-12/05/95	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0086

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	1	0	0.00				1	0	0.00						
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: WHIS0087

NPS Station ID: WHIS0087
LAT/LON: 40.630837/-122.593060
Agency: 21CAL-3G
Date Created: 11/29/86
Location: 45-508 DRY CREEK SPRINGS
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/MUN/INTAKE/AMBNT/SPRING
STORET Station ID(s): 32N/06W-18ES1 M
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112
Depth of Water: 0
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112
RF1 Mile Point: 0.000
Distance from RF1: 13.10
On/Off RF1:
RF3 Index: 18020112000502.79
RF3 Mile Point: 2.86
Distance from RF3: 0.14
On/Off RF3:
Description:
DIST 01 WHISKEYTOWN NATIONAL RECREATION AREA

Parameter Inventory for Station: WHIS0087

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/03/86-04/03/86	1	52.	52.	52.	52.	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	04/03/86-04/03/86	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	04/03/86-04/03/86	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/03/86-04/03/86	1	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	04/03/86-04/03/86	1	37.	37.	37.	37.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	04/03/86-04/03/86	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	04/03/86-04/03/86	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	04/03/86-04/03/86	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	04/03/86-04/03/86	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	04/03/86-04/03/86	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	04/03/86-04/03/86	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	04/03/86-04/03/86	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	04/03/86-04/03/86	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	04/03/86-04/03/86	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
01501	ALPHA, TOTAL	06/16/86-12/10/86	2	0.2	0.2	0.3	0.1	0.02	0.141	**	**	**	**
01502	ALPHA, TOTAL, COUNTING ERROR	06/16/86-12/10/86	2	0.25	0.25	0.3	0.2	0.005	0.071	**	**	**	**
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	04/03/86-04/03/86	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39045	2,4,5-TP INCLUDES ACIDS & SALTS WATER SAMPL UG/L	04/03/86-04/03/86	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	04/03/86-04/03/86	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	04/03/86-04/03/86	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	04/03/86-04/03/86	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	04/03/86-04/03/86	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	04/03/86-04/03/86	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/03/86-04/03/86	1	40.	40.	40.	40.	0.	0.	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	04/03/86-04/03/86	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0087

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------6/01-11/09---------- Obs	Exceed	Prop.	----------11/10-2/20---------- Obs	Exceed	Prop.	----------2/21-5/31---------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.
00403	PH, LAB	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			

& - 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: WHIS0087

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00							1	0	0.00			
		Drinking Water	250.	1	0	0.00							1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00							1	0	0.00			
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	1	0	0.00							1	0	0.00			
39045	2,4,5-TP INCLUDES ACIDS & SALTS WATER SA	Drinking Water	50.	1	0	0.00							1	0	0.00			
39340	GAMMA-BHC(LINDANE), WHOLE WATER	Fresh Acute	2.	0 &	0	0.00												
		Drinking Water	0.2	0 &	0	0.00												
39390	ENDRIN IN WHOLE WATER SAMPLE	Fresh Acute	0.18	1	0	0.00							1	0	0.00			
		Drinking Water	2.	1	0	0.00							1	0	0.00			
39400	TOXAPHENE IN WHOLE WATER SAMPLE	Fresh Acute	0.73	0 &	0	0.00												
		Drinking Water	3.	1	0	0.00							1	0	0.00			
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE	Drinking Water	40.	0 &	0	0.00												
39730	2,4-D IN WHOLE WATER SAMPLE	Drinking Water	70.	1	0	0.00							1	0	0.00			
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: WHIS0088

NPS Station ID: WHIS0088 LAT/LON: 40.631782/-122.553781 Agency: 11NPSWRD Date Created: 02/07/98
Location: MID-CHANNEL UNDER WHISKEY CREEK BRIDGE FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /RESERV/TYPA/AMBNT STORET Station ID(s): WHIS_WQCB_03
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 Depth of Water: 0 Aquifer:
Major Basin: CALIFORNIA Elevation: 0 Water Body Id:
Minor Basin: SACRAMENTO RIVER ECO Region:
RF1 Index: 18020112 RF1 Mile Point: 0.000 Distance from RF1: 0.80 On/Off RF1:
RF3 Index: 18010211001600.95 RF3 Mile Point: 5.98 Distance from RF3: 0.04 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE WHISKEYTOWN-CA SHASTA COUNTY 7.5 MINUTE (TOPOGRAPHIC) QUADRANGLE. THE SITE IS DESCRIBED BY THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD (WQCB) AS "MID-CHANNEL UNDER WHISKEY CREEK BRIDGE." THE SITE IS LOCATED AT WHISKEYTOWN LAKE INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA ARE FROM FOUR BACTERIOLOGICAL SURVEYS PERFORMED BY THE WQCB IN 1986; 1987; 1990 AND 1991. FOR MORE INFORMATION ON THE BACTERIOLOGICAL SURVEY CONTACT THE WQCB; 415 KNOLLCREST DR. SUITE 100; REDDING CA 96002 (TEL 916-224-4845). FOR MORE INFORMATION ON THE WHISKEYTOWN UNIT OF THE PARK CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; P.O. BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX970-225-9965).

Parameter Inventory for Station: WHIS0088

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/15/86-07/31/90	5	3.	4.2	11.	1.5	15.575	3.947	**	**	**	**
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	07/15/86-07/31/90	5	0.477	0.495	1.041	0.176	0.128	0.358	**	**	**	**
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			3.123								
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/15/86-07/31/90	5 ##	1.5	1.8	3.	1.5	0.45	0.671	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/15/86-07/31/90	5 ##	0.176	0.236	0.477	0.176	0.018	0.135	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			1.723								

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

EPA Water Quality Criteria Analysis for Station: WHIS0088

				Total	Exceed	Prop.	----------6/01-11/09----------			----------11/10-2/20----------			----------2/21-5/31----------			--------------n/a--------------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	5	0	0.00	5	0	0.00									
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	Other-Hi Lim.	200.	5	0	0.00	5	0	0.00									

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

Station Inventory for Station: WHIS0089

NPS Station ID: WHIS0089 | LAT/LON: 40.633809/-122.567893 | Agency: 11NPSWRD | Date Created: 05/23/98
Location: APPROX. 2.5 KM DOWNSTREAM OF OAK BOTTOM CURTAINS | FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /RESERV/TYPA/AMBNT | STORET Station ID(s): WHIS_UCLIM_2
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 | Depth of Water: 0 | Aquifer:
Major Basin: CALIFORNIA | Elevation: 0 | Water Body Id:
Minor Basin: SACRAMENTO RIVER | ECO Region:
RF1 Index: 18020112 | RF1 Mile Point: 0.000 | Distance from RF1: 0.80 | On/Off RF1:
RF3 Index: 18010211001600.95 | RF3 Mile Point: 5.98 | Distance from RF3: 0.04 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE WHISKEYTOWN CA-SHASTA COUNTY 7.5' SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS LOCATED INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT) ON WHISKEYTOWN LAKE APPROXIMATELY 2.5 KM DOWNSTREAM OF THE OAK BOTTOM TEMPERATURE CURTAINS. THE DATA ARE FROM A 1994 REPORT TO THE BUREAU OF RECLAMATION BY THE UNIVERSITY OF CALIFORNIA AT DAVIS TITLED "A LIMNOLOGICAL INVESTIGATION OF WHISKEYTOWN RESERVOIR: POTENTIAL IMPACTS OF TEMPERATURE CONTROL CURTAINS." CORRECTED DISSOLVED OXYGEN VALUES WERE UPLOADED TO STORET WITH AN ARBITRARY TIME OF 1200. FOR MORE INFORMATION ON THE WHISKEYTOWN UNIT OF THE PARK CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA: PO BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0089

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/22/93-08/16/94	163	16.7	17.087	24.6	10.7	19.639	4.432	11.5	12.3	21.5	22.62
00078	TRANSPARENCY, SECCHI DISC (METERS)	04/21/93-08/16/94	11	11.1	10.945	14.8	8.2	3.313	1.82	8.44	9.7	11.7	14.44
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/22/93-08/16/94	162	72.	71.926	90.	64.	34.032	5.834	64.	66.	76.	78.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/22/93-08/16/94	201	8.5	8.691	11.	7.4	0.547	0.74	7.7	8.1	9.3	9.6
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	07/22/93-08/16/94	201	94.	94.642	118.	83.	33.471	5.785	88.2	90.	99.	100.
00406	PH, FIELD, STANDARD UNITS SU	07/22/93-08/16/94	162	7.875	7.937	8.45	7.56	0.048	0.218	7.693	7.768	8.13	8.23
00406	CONVERTED PH, FIELD, STANDARD UNITS	07/22/93-08/16/94	162	7.875	7.887	8.45	7.56	0.05	0.224	7.693	7.768	8.13	8.23
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/22/93-08/16/94	162	0.013	0.013	0.028	0.004	0.	0.006	0.006	0.007	0.017	0.02
46480	OXIDATION REDUCTION POTENTIAL, FIELD MV	06/01/94-08/16/94	68	291.	296.191	355.	167.	2228.694	47.209	230.2	268.75	341.75	351.1

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

EPA Water Quality Criteria Analysis for Station: WHIS0089

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	201	0	0.00	201	0	0.00									
00406	PH, FIELD	Fresh Chronic	9.	162	0	0.00	162	0	0.00									
		Other-Lo Lim.	6.5	162	0	0.00	162	0	0.00									

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

Station Inventory for Station: WHIS0090

NPS Station ID: WHIS0090
LAT/LON: 40.634726/-122.675837
Agency: 21CAL-1
Date Created: 04/26/86
Location: CRYSTAL CR AT CRYSTAL CR CONS CMP
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): A3626000
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112
Depth of Water: 0
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER BASIN
ECO Region:
RF1 Index: 18020112012
RF1 Mile Point: 3.040
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 18020112000406.96
RF3 Mile Point: 7.64
Distance from RF3: 0.00
On/Off RF3:
Description:
CRYSTAL CR AT CRYSTAL CR CONS CMP

Parameter Inventory for Station: WHIS0090

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: WHIS0091

NPS Station ID: WHIS0091 LAT/LON: 40.635476/-122.569448 Agency: 11NPSWRD Date Created: 02/07/98
Location: BACKGROUND B/W OAK BOTTOM AND BRANDY CREEK FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /RESERV/TYPA/AMBNT STORET Station ID(s): WHIS_WQCB_24
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 Depth of Water: 0 Aquifer:
Major Basin: CALIFORNIA Elevation: 0 Water Body Id:
Minor Basin: SACRAMENTO RIVER ECO Region:
RF1 Index: 18020112 RF1 Mile Point: 0.000 Distance from RF1: 0.80 On/Off RF1:
RF3 Index: 18010211001600.95 RF3 Mile Point: 5.98 Distance from RF3: 0.04 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE WHISKEYTOWN-CA SHASTA COUNTY 7.5 MINUTE (TOPOGRAPHIC) QUADRANGLE. THE SITE IS DESCRIBED BY THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD (WQCB) AS "BACKGROUND B/W OAK BOTTOM AND BRANDY CREEK." THE SITE IS LOCATED IN THE MIDDLE OF WHISKEYTOWN LAKE; WEST OF THE ROUTE 299 EAST BRIDGE INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA ARE FROM FOUR BACTERIOLOGICAL SURVEYS PERFORMED BY THE WQCB IN 1986; 1987; 1990 AND 1991. FOR MORE INFORMATION ON THE BACTERIOLOGICAL SURVEYS CONTACT THE WQCB; 415 KNOLLCREST DR. SUITE 100; REDDING CA 9600 (TEL 916-224-4845). FOR MORE INFORMATION ON THE WHISKEYTOWN UNIT OF THE PARK CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; P.O. BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION: DR. SUITE 250; FT COLLINS CO 80525 (TEL 970-225-3516; FAX970-225-9965).

Parameter Inventory for Station: WHIS0091

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/15/86-07/31/90	5	3.	6.6	23.	1.5	85.175	9.229	**	**	**	**
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	07/15/86-07/31/90	5	0.477	0.559	1.362	0.176	0.237	0.486	**	**	**	**
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			3.619								
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/15/86-07/31/90	5 ##	1.5	1.8	3.	1.5	0.45	0.671	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/15/86-07/31/90	5 ##	0.176	0.236	0.477	0.176	0.018	0.135	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			1.723								

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

EPA Water Quality Criteria Analysis for Station: WHIS0091

				Total	Exceed	Prop.	----------6/01-11/09----------			----------11/10-2/20----------			----------2/21-5/31----------			--------------n/a--------------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	5	0	0.00	5	0	0.00									
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	Other-Hi Lim.	200.	5	0	0.00	5	0	0.00									

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

Station Inventory for Station: WHIS0092

NPS Station ID: WHIS0092 LAT/LON: 40.635587/-122.522531 Agency: 11NPSWRD Date Created: 02/13/99
Location: UNNAMED SPRING NE 1/4 NE 1/4 SECT. 15 T32N R6W FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/SPRING STORET Station ID(s): WHIS_USGS_UNKS
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 Depth of Water: 0 Aquifer:
Major Basin: CALIFORNIA Elevation: 0 Water Body Id:
Minor Basin: SACRAMENTO RIVER ECO Region:
RF1 Index: 18020112 RF1 Mile Point: 0.000 Distance from RF1: 0.80 On/Off RF1:
RF3 Index: 18010211001600.95 RF3 Mile Point: 5.98 Distance from RF3: 0.04 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE WHISKEYTOWN CA-SHASTA COUNTY 7.5' SERIES (TOPOGRAPHIC) QUADRANGLE INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE SITE IS DESCRIBED BY THE USGS AS "UNNAMED SPRING; NE 1/4 NE 1/4; SECT. 15; T32N; R6W." A SPRING COULD NOT BE IDENTIFIED IN THE VICINITY OF THE LOCATION DESCRIPTION. THE LAT/LONG VALUES USED WERE ESTIMATED. DATA WERE COLLECTED BY THE USGS AND LISTED IN A REPORT TITLED "WATER-RESOURCES RECONNAISSANCE OF WHISKEYTOWN NATIONAL RECREATION AREA; CALIFORNIA" DATED 1969. FOR MORE INFORMATION ON THE WHISKEYTOWN UNIT OF THE PARK CONTACT THE CHIEF OF RESOURCES AT THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; P.O. BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0092

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/14/62-11/14/62	1	184.	184.	184.	184.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	11/14/62-11/14/62	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	11/14/62-11/14/62	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/14/62-11/14/62	1	0.063	0.063	0.063	0.063	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	11/14/62-11/14/62	1	118.	118.	118.	118.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	11/14/62-11/14/62	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/14/62-11/14/62	1	83.	83.	83.	83.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	11/14/62-11/14/62	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/14/62-11/14/62	1	18.	18.	18.	18.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/14/62-11/14/62	1	9.2	9.2	9.2	9.2	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	11/14/62-11/14/62	1	9.9	9.9	9.9	9.9	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/14/62-11/14/62	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	11/14/62-11/14/62	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	11/14/62-11/14/62	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/14/62-11/14/62	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	11/14/62-11/14/62	1	28.	28.	28.	28.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	11/14/62-11/14/62	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	11/14/62-11/14/62	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	11/14/62-11/14/62	1	130.	130.	130.	130.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/14/62-11/14/62	1	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0092

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00				1	0	0.00						
		Other-Lo Lim.	6.5	1	0	0.00				1	0	0.00						
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						
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: WHIS0093

NPS Station ID: WHIS0093 | LAT/LON: 40.640503/-122.597421 | Agency: 11NPSWRD | Date Created: 05/23/98
Location: BOULDER CREEK | FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): WHIS_NPS_09
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 | Depth of Water: 0 | Aquifer:
Major Basin: CALIFORNIA | Elevation: 0 | Water Body Id:
Minor Basin: SACRAMENTO RIVER | ECO Region:
RF1 Index: 18020112 | RF1 Mile Point: 0.000 | Distance from RF1: 0.80 | On/Off RF1:
RF3 Index: 18010211001600.95 | RF3 Mile Point: 5.98 | Distance from RF3: 0.04 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE WHISKEYTOWN CA-SHASTA COUNTY 7.5' SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE WAS DESCRIBED BY THE NPS AS "BOULDER CREEK" AND WAS LOCATED NEAR THE INTERSECTION OF BOULDER CREEK AND SOUTH SHORE DRIVE INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA WERE COLLECTED FROM APPROXIMATELY 1973 UNTIL 1980 BY PARK PERSONNEL FOR FOURTEEN TOTAL LOCATIONS. THE DATA FOR EACH LOCATION WERE IN SEPARATELY BOUND FILES. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; PO BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NPS WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0093

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-01/23/80	88	10.	11.286	24.	3.	26.568	5.154	5.	7.	15.9	19.01
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-01/23/80	88	18.65	18.814	36.7	5.	61.396	7.836	8.81	12.2	25.	29.05
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/01/73-01/23/80	76	3.	10.321	80.	0.3	227.538	15.084	0.67	1.	16.5	32.6
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-01/23/80	89	2.	4.88	23.	0.	33.691	5.804	0.	0.	8.5	15.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-01/23/80	79	54.	52.291	93.	6.	157.773	12.561	36.	43.	60.	65.
00300	OXYGEN, DISSOLVED MG/L	03/02/73-01/23/80	88	10.95	11.135	15.	8.5	2.255	1.502	9.2	9.8	12.2	13.21
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-01/23/80	88	0.3	0.638	7.	0.	1.402	1.184	0.04	0.2	0.4	1.46
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	06/18/73-07/14/76	29	2.4	2.886	9.	0.9	3.842	1.96	0.92	1.51	3.7	6.5
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	07/02/73-07/14/76	44	0.06	0.119	0.76	0.	0.026	0.162	0.015	0.03	0.16	0.315
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/73-01/23/80	89	20.	20.843	50.	10.	69.361	8.328	10.	15.	26.5	30.

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

EPA Water Quality Criteria Analysis for Station: WHIS0093

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	89	0	0.00	39	0	0.00	24	0	0.00	26	0	0.00			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	88	0	0.00	39	0	0.00	23	0	0.00	26	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	88	0	0.00	38	0	0.00	24	0	0.00	26	0	0.00			

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

Annual Analysis for 1973 - Station WHIS0093

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-01/23/80	21	10.	11.267	21.1	6.1	20.549	4.533	6.8	7.8	14.2	20.32
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-01/23/80	21	17.8	18.652	33.3	7.8	58.927	7.676	9.52	12.2	23.65	31.
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/01/73-01/23/80	16	3.	11.388	44.	0.5	192.954	13.891	0.5	0.725	23.75	34.2
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-01/23/80	21	8.	8.571	20.	0.	43.157	6.569	0.	2.5	15.	19.6
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-01/23/80	16	43.	45.5	61.	27.	110.933	10.532	30.5	37.	55.	60.3
00300	OXYGEN, DISSOLVED MG/L	03/02/73-01/23/80	20	11.3	11.655	15.	9.	3.625	1.904	9.03	10.1	14.	14.
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-01/23/80	21	0.06	1.546	7.	0.	4.794	2.189	0.	0.02	3.	5.8
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/73-01/23/80	21	15.	16.667	30.	10.	38.333	6.191	10.	10.	20.	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 1974 - Station WHIS0093

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-01/23/80	13	10.	10.708	18.	6.	21.777	4.667	6.	6.5	16.5	17.6
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-01/23/80	14	19.5	18.457	31.	5.	86.195	9.284	5.	10.6	28.125	30.25
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/01/73-01/23/80	13	7.	20.362	80.	0.7	583.733	24.161	0.82	1.5	37.5	64.8
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-01/23/80	14	1.	3.786	15.	0.	24.181	4.917	0.	0.	6.25	13.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-01/23/80	12	48.	49.75	68.	36.	92.386	9.612	36.9	43.	56.75	66.5
00300	OXYGEN, DISSOLVED MG/L	03/02/73-01/23/80	14	11.3	11.157	13.2	9.2	1.507	1.228	9.4	9.775	12.05	12.9
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-01/23/80	14	0.25	0.257	0.4	0.1	0.008	0.09	0.15	0.2	0.325	0.4
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/73-01/23/80	14	17.5	16.786	30.	10.	40.797	6.387	10.	10.	20.	27.5

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

Annual Analysis for 1975 - Station WHIS0093

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-01/23/80	12	9.	10.5	18.	5.	28.091	5.3	5.	5.25	16.75	17.7
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-01/23/80	12	15.	16.375	28.	5.	67.597	8.222	5.	8.875	24.75	27.1
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/01/73-01/23/80	12	4.5	11.892	44.	0.7	200.686	14.166	1.09	2.	24.	39.2
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-01/23/80	12	4.	6.667	23.	0.	61.333	7.832	0.	1.25	12.75	21.8
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-01/23/80	9	50.	46.889	70.	6.	352.861	18.785	6.	37.5	59.5	70.
00300	OXYGEN, DISSOLVED MG/L	03/02/73-01/23/80	12	11.45	11.117	12.9	9.2	2.247	1.499	9.26	9.5	12.575	12.84
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-01/23/80	12	0.3	0.304	0.5	0.2	0.008	0.089	0.2	0.25	0.375	0.47
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/73-01/23/80	12	22.5	22.5	30.	10.	61.364	7.833	10.	16.25	30.	30.

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

Annual Analysis for 1976 - Station WHIS0093

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-01/23/80	12	11.5	11.917	23.	5.	30.083	5.485	5.	6.75	15.75	21.5
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-01/23/80	12	19.5	20.5	34.	11.	47.364	6.882	11.6	15.25	25.25	32.5
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/01/73-01/23/80	12	1.45	2.475	11.	0.3	9.369	3.061	0.36	0.525	3.5	9.2
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-01/23/80	12	2.	3.525	10.	0.	14.271	3.778	0.	0.075	7.5	9.7
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-01/23/80	12	57.	58.583	69.	49.	37.174	6.097	49.3	55.25	63.75	67.8
00300	OXYGEN, DISSOLVED MG/L	03/02/73-01/23/80	12	10.75	10.75	12.6	8.5	1.614	1.27	8.8	9.725	11.975	12.57
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-01/23/80	11	0.25	0.273	0.4	0.2	0.008	0.088	0.2	0.2	0.4	0.4
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/73-01/23/80	12	24.5	26.167	45.	15.	104.515	10.223	15.	16.25	33.75	43.5

** - 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 WHIS0093

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-01/23/80	8	11.5	13.375	24.	6.	38.268	6.186	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-01/23/80	7	19.	19.286	29.	8.	59.571	7.718	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/01/73-01/23/80	6	0.9	0.85	1.	0.5	0.039	0.197	**	**	**	**
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-01/23/80	8	1.5	2.625	11.	0.	14.268	3.777	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-01/23/80	8	65.	67.125	93.	58.	123.268	11.103	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	03/02/73-01/23/80	8	10.3	10.4	12.7	9.1	1.443	1.201	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-01/23/80	8	0.3	0.35	0.5	0.3	0.006	0.076	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/73-01/23/80	8	30.	32.5	50.	25.	57.143	7.559	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0093

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-01/23/80	10	10.5	11.	20.	3.	28.667	5.354	3.1	7.	15.5	19.7
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-01/23/80	10	20.5	19.	26.	8.	36.	6.	8.5	14.5	24.25	25.9
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/01/73-01/23/80	6	2.5	12.	44.	2.	290.8	17.053	**	**	**	**
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-01/23/80	10 ##	0.	0.9	4.	0.	2.1	1.449	0.	0.	1.5	3.9
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-01/23/80	10	47.	49.3	70.	36.	149.789	12.239	36.	37.5	60.75	69.3
00300	OXYGEN, DISSOLVED MG/L	03/02/73-01/23/80	10	10.55	10.93	13.5	9.	2.573	1.604	9.02	9.65	12.75	13.44
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-01/23/80	10	0.3	0.295	0.4	0.05	0.011	0.107	0.065	0.275	0.4	0.4
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/73-01/23/80	10	20.	19.3	28.	12.	22.456	4.739	12.3	15.	21.25	27.7

** - 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 1979 - Station WHIS0093

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-01/23/80	11	10.	11.136	20.6	4.	41.509	6.443	4.08	5.6	18.9	20.48
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-01/23/80	11	21.	20.218	36.7	8.9	95.462	9.77	9.12	11.	28.	36.24
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/01/73-01/23/80	10	4.	6.3	23.	1.	41.344	6.43	1.	2.5	8.25	21.6
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-01/23/80	11	1.	3.455	12.	0.	21.473	4.634	0.	0.	8.	11.6
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-01/23/80	11	53.	53.727	68.	38.	69.818	8.356	39.6	47.	60.	66.4
00300	OXYGEN, DISSOLVED MG/L	03/02/73-01/23/80	11	11.7	11.245	13.3	9.6	1.917	1.384	9.62	9.7	12.5	13.18
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-01/23/80	11	0.5	0.645	1.4	0.3	0.171	0.413	0.3	0.3	1.2	1.36
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/73-01/23/80	11	20.	19.545	30.	10.	27.273	5.222	11.	15.	20.	29.

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0093

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-01/23/80	1	8.9	8.9	8.9	8.9	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-01/23/80	1	15.6	15.6	15.6	15.6	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/01/73-01/23/80	1	25.	25.	25.	25.	0.	0.	**	**	**	**
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-01/23/80	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-01/23/80	1	60.	60.	60.	60.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	03/02/73-01/23/80	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-01/23/80	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/73-01/23/80	1	18.	18.	18.	18.	0.	0.	**	**	**	**

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

Seasonal Analysis for Season #1: 6/01 to 11/09 - Station WHIS0093

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-01/23/80	39	16.	15.736	24.	9.4	15.9	3.988	10.	12.	18.	21.1
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-01/23/80	38	24.5	24.639	36.7	12.2	34.83	5.902	16.	20.825	29.	33.37
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/01/73-01/23/80	36	1.5	2.439	15.	0.3	8.366	2.892	0.5	0.7	3.	7.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-01/23/80	39	5.	5.923	20.	0.	38.757	6.226	0.	0.	10.	15.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-01/23/80	37	55.	54.459	93.	32.	123.533	11.115	41.8	46.5	60.5	68.2
00300	OXYGEN, DISSOLVED MG/L	03/02/73-01/23/80	39	9.7	10.051	14.	8.5	1.237	1.112	9.	9.3	10.4	11.
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-01/23/80	38	0.3	1.013	7.	0.02	2.873	1.695	0.049	0.238	0.5	3.2
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/73-01/23/80	39	20.	21.744	45.	10.	56.933	7.545	12.	15.	28.	30.

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

Seasonal Analysis for Season #2: 11/10 to 2/20 - Station WHIS0093

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-01/23/80	23	6.	6.639	12.	3.	4.952	2.225	4.	5.	8.3	9.76
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-01/23/80	24	11.75	11.933	25.	5.	17.631	4.199	6.4	9.4	14.75	16.3
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/01/73-01/23/80	19	4.	16.242	80.	0.8	462.997	21.517	0.9	2.	30.	44.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-01/23/80	24	3.	5.542	23.	0.	43.65	6.607	0.	0.25	10.75	17.5
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-01/23/80	21	58.	55.19	70.	39.	94.562	9.724	40.2	46.5	62.5	69.
00300	OXYGEN, DISSOLVED MG/L	03/02/73-01/23/80	23	12.1	12.057	13.2	10.5	0.552	0.743	10.78	11.6	12.6	12.9
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-01/23/80	24	0.3	0.456	2.	0.	0.222	0.471	0.2	0.2	0.4	1.3
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/73-01/23/80	24	20.	20.5	35.	10.	52.348	7.235	10.	15.75	25.	30.

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

Seasonal Analysis for Season #3: 2/21 to 5/31 - Station WHIS0093

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-01/23/80	26	8.45	8.723	15.	5.	6.342	2.518	6.	6.775	10.	12.6
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-01/23/80	26	17.25	16.65	28.	5.	43.985	6.632	7.1	11.9	22.25	26.
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/01/73-01/23/80	21	19.	18.476	44.	1.	206.962	14.386	1.	4.5	27.5	43.6
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-01/23/80	26	1.	2.704	11.	0.	12.48	3.533	0.	0.	4.25	9.3
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-01/23/80	21	46.	45.571	68.	6.	233.457	15.279	28.4	36.	59.	65.
00300	OXYGEN, DISSOLVED MG/L	03/02/73-01/23/80	26	12.	11.946	15.	9.5	2.183	1.478	10.	10.8	12.9	14.
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-01/23/80	26	0.275	0.258	0.6	0.	0.027	0.163	0.007	0.16	0.4	0.43
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/73-01/23/80	26	15.	19.808	50.	10.	106.962	10.342	10.	10.	30.	33.

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

Station Inventory for Station: WHIS0094

NPS Station ID: WHIS0094 | LAT/LON: 40.641059/-122.549810 | Agency: 11NPSWRD | Date Created: 02/07/98
Location: MID-LAKE WHISKEY CREEK | FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /RESERV/TYPA/AMBNT | STORET Station ID(s): WHIS_WQCB_02
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 | Depth of Water: 0 | Aquifer:
Major Basin: CALIFORNIA | Elevation: 0 | Water Body Id:
Minor Basin: SACRAMENTO RIVER | ECO Region:
RF1 Index: 18020112 | RF1 Mile Point: 0.000 | Distance from RF1: 0.80 | On/Off RF1:
RF3 Index: 18010211001600.95 | RF3 Mile Point: 5.98 | Distance from RF3: 0.04 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE WHISKEYTOWN-CA SHASTA COUNTY 7.5 MINUTE (TOPOGRAPHIC) QUADRANGLE. THE SITE IS DESCRIBED BY THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD (WQCB) AS "MID-LAKE WHISKEY CREEK." THE SITE IS LOCATED AT WHISKEYTOWN LAKE IN THE MIDDLE OF THE WHISKEY CREEK COVE INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA ARE FROM FOUR BACTERIOLOGICAL SURVEYS PERFORMED BY THE WQCB IN 1986; 1987; 1990 AND 1991. FOR MORE INFORMATION ON THE BACTERIOLOGICAL SURVEYS CONTACT THE WQCB; 415 KNOLLCREST DR. SUITE 100; REDDING CA 96002 (TEL 916-224-4845). FOR MORE INFORMATION ON THE PARK'S WHISKEYTOWN UNIT CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; PO BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX970-225-9965).

Parameter Inventory for Station: WHIS0094

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/15/86-07/17/91	7	9.	12.071	23.	1.5	73.869	8.595	**	**	**	**
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	07/15/86-07/17/91	7	0.954	0.941	1.362	0.176	0.185	0.43	**	**	**	**
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			8.727								
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/15/86-07/17/91	7 ##	1.5	2.571	9.	1.5	8.036	2.835	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/15/86-07/17/91	7 ##	0.176	0.287	0.954	0.176	0.087	0.294	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			1.938								

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

EPA Water Quality Criteria Analysis for Station: WHIS0094

				Total	Exceed	Prop.	6/01-11/09			11/10-2/20			2/21-5/31			n/a		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	7	0	0.00	7	0	0.00									
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	Other-Hi Lim.	200.	7	0	0.00	7	0	0.00									

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

Station Inventory for Station: WHIS0095

NPS Station ID: WHIS0095 LAT/LON: 40.641226/-122.589448 Agency: 11NPSWRD Date Created: 02/07/98
Location: COVE ON SOUTHWEST SHORE; SOUTH OF OAK BOTTOM FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /RESERV/TYPA/AMBNT STORET Station ID(s): WHIS_WQCB_26
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 Depth of Water: 0 Aquifer:
Major Basin: CALIFORNIA Elevation: 0 Water Body Id:
Minor Basin: SACRAMENTO RIVER ECO Region:
RF1 Index: 18020112 RF1 Mile Point: 0.000 Distance from RF1: 0.80 On/Off RF1:
RF3 Index: 18010211001600.95 RF3 Mile Point: 5.98 Distance from RF3: 0.04 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE WHISKEYTOWN-CA SHASTA COUNTY 7.5 MINUTE (TOPOGRAPHIC) QUADRANGLE. THE SITE IS DESCRIBED BY THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD (WQCB) AS "COVE ON SOUTHWEST SHORE; SOUTH OF OAK BOTTOM." THE SITE IS LOCATED AT WHISKEYTOWN LAKE INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA ARE FROM FOUR BACTERIOLOGICAL SURVEYS PERFORMED BY THE WQCB IN 1986; 1987; 1990 AND 1991. FOR MORE INFORMATION ON THE BACTERIOLOGICAL SURVEY CONTACT THE WQCB; 415 KNOLLCREST DR. SUITE 100; REDDING CA 96002 (TEL 916-224-4845). FOR MORE INFORMATION ON THE WHISKEYTOWN UNIT OF THE PARK CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; P.O. BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX970-225-9965).

Parameter Inventory for Station: WHIS0095

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/31/90-07/31/90	2	9.5	9.5	15.	4.	60.5	7.778	**	**	**	**
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	07/31/90-07/31/90	2	0.889	0.889	1.176	0.602	0.165	0.406	**	**	**	**
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			7.746								
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/31/90-07/31/90	2 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/31/90-07/31/90	2 ##	0.176	0.176	0.176	0.176	0.	0.	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			1.5								

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

EPA Water Quality Criteria Analysis for Station: WHIS0095

				Total	Exceed	Prop.	----------6/01-11/09----------			----------11/10-2/20----------			----------2/21-5/31----------			--------------n/a--------------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	2	0	0.00	2	0	0.00									
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	Other-Hi Lim.	200.	2	0	0.00	2	0	0.00									

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

Station Inventory for Station: WHIS0096

NPS Station ID: WHIS0096 | LAT/LON: 40.641449/-122.581921 | Agency: 11NPSWRD | Date Created: 02/07/98
Location: BACKGROUND NEAR OAK BOTTOM | FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /RESERV/TYPA/AMBNT | STORET Station ID(s): WHIS_WQCB_25
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 | Depth of Water: 0 | Aquifer:
Major Basin: CALIFORNIA | Elevation: 0 | Water Body Id:
Minor Basin: SACRAMENTO RIVER | ECO Region:
RF1 Index: 18020112 | RF1 Mile Point: 0.000 | Distance from RF1: 0.80 | On/Off RF1:
RF3 Index: 18010211001600.95 | RF3 Mile Point: 5.98 | Distance from RF3: 0.04 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE WHISKEYTOWN-CA SHASTA COUNTY 7.5 MINUTE (TOPOGRAPHIC) QUADRANGLE. THE SITE IS DESCRIBED BY THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD (WQCB) AS "BACKGROUND NEAR OAK BOTTOM." THE SITE IS LOCATED IN THE MIDDLE OF WHISKEYTOWN LAKE; SOUTHWEST OF THE OAK BOTTOM AREA INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA ARE FROM FOUR BACTERIOLOGICAL SURVEYS PERFORMED BY THE WQCB IN 1986; 1987; 1990 AND 1991. FOR MORE INFORMATION ON THE BACTERIOLOGICAL SURVEYS CONTACT THE WQCB; 415 KNOLLCREST DR. SUITE 100; REDDING CA 96002 (TEL 916-224-4845). FOR MORE INFORMATION ON THE PARK'S WHISKEYTOWN UNIT CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; P.O. BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX970-225-9965).

Parameter Inventory for Station: WHIS0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/15/86-07/07/87	3	9.	7.333	9.	4.	8.333	2.887	**	**	**	**
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	07/15/86-07/07/87	3	0.954	0.837	0.954	0.602	0.041	0.203	**	**	**	**
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			6.868								
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/15/86-07/07/87	3 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/15/86-07/07/87	3 ##	0.176	0.176	0.176	0.176	0.	0.	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			1.5								

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

EPA Water Quality Criteria Analysis for Station: WHIS0096

				Total	Exceed	Prop.	----------6/01-11/09----------			----------11/10-2/20----------			----------2/21-5/31----------			--------------n/a--------------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	3	0	0.00	3	0	0.00									
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	Other-Hi Lim.	200.	3	0	0.00	3	0	0.00									

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

Station Inventory for Station: WHIS0097

NPS Station ID: WHIS0097
LAT/LON: 40.641670/-122.483338
Agency: 11TOX09
Date Created: 10/20/84
Location: SPRING CK OUTFLOW FROM SPRING CREEK DEBRIS DAM
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM/MINE
STORET Station ID(s): IRONMT-78 /SPRING-78
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 18020112
Depth of Water: 999
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 18020112000302.14
RF3 Mile Point: 2.93
Distance from RF3: 0.11
On/Off RF3:
Description:

Parameter Inventory for Station: WHIS0097

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/04/84-06/28/84	13	12.	13.208	26.	5.5	38.552	6.209	6.1	8.6	15.5	25.6
00058	FLOW, RATE GALLONS/MIN	01/04/84-05/08/84	10	26.	31.09	103.8	3.	809.579	28.453	3.5	8.9	36.25	97.42
00060	FLOW, STREAM, MEAN DAILY CFS	05/22/84-06/05/84	2 ##	2.75	2.75	5.	0.5	10.125	3.182	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/04/84-06/28/84	12	1099.5	1204.417	2100.	665.	218779.538	467.739	678.8	783.75	1633.	2025.
00400	PH (STANDARD UNITS)	01/04/84-06/28/84	12	2.775	2.9	3.6	2.55	0.156	0.395	2.55	2.55	3.288	3.57
00400	CONVERTED PH (STANDARD UNITS)	01/04/84-06/28/84	12	2.769	2.773	3.6	2.55	0.174	0.417	2.55	2.55	3.288	3.57
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/04/84-06/28/84	12	1703.9	1688.381	2818.383	251.189	1129995.062	1063.012	270.7	533.595	2818.383	2818.383
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/04/84-06/28/84	13	5.	7.154	24.	1.	44.808	6.694	1.4	2.	11.	20.
00927	MAGNESIUM, TOTAL (MG/L AS MG)	05/22/84-06/05/84	2	19800.	19800.	20200.	19400.	320000.	565.685	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	05/22/84-06/05/84	2	5445.	5445.	5540.	5350.	18050.	134.35	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	05/22/84-06/05/84	2	1300.	1300.	1800.	800.	500000.	707.107	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	05/22/84-06/05/84	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	01/04/84-06/28/84	13	520.	522.308	927.	200.	41665.897	204.122	208.8	389.	645.5	845.8
00956	SILICA, TOTAL (MG/L AS SI02)	05/22/84-06/05/84	2	2.	2.	2.	2.	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	05/22/84-06/05/84	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	05/22/84-06/05/84	2	11.5	11.5	13.	10.	4.5	2.121	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	05/22/84-06/05/84	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	01/04/84-06/28/84	11	76.	85.273	155.	28.	1161.818	34.085	34.2	64.	110.	148.2
01027	CADMIUM, TOTAL (UG/L AS CD)	01/04/84-06/28/84	13	88.	88.154	161.	33.	1225.808	35.012	37.8	66.5	120.	144.6
01034	CHROMIUM, TOTAL (UG/L AS CR)	05/22/84-05/22/84	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	05/22/84-06/05/84	2	19.	19.	24.	14.	50.	7.071	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	01/04/84-06/28/84	11	1720.	1718.182	2360.	890.	188096.364	433.701	942.	1500.	2000.	2342.
01042	COPPER, TOTAL (UG/L AS CU)	01/04/84-06/28/84	13	1670.	1692.769	2260.	876.	153216.359	391.429	985.6	1475.	1965.	2228.
01045	IRON, TOTAL (UG/L AS FE)	01/04/84-06/28/84	13	90300.	92892.308	152000.	32200.	1289610769.231	35911.151	39320.	60450.	116000.	149600.
01047	IRON, FERROUS (UG/L AS FE)	01/04/84-06/28/84	13	3.	7.677	27.	0.8	69.124	8.314	0.88	1.5	14.5	23.4
01051	LEAD, TOTAL (UG/L AS PB)	05/22/84-06/05/84	2	12.5	12.5	14.	11.	4.5	2.121	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	05/22/84-06/05/84	2	912.5	912.5	1040.	785.	32512.5	180.312	**	**	**	**
01059	THALLIUM, TOTAL (UG/L AS TL)	05/22/84-06/05/84	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	05/22/84-06/05/84	2 ##	15.25	15.25	23.	7.5	120.125	10.96	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	05/22/84-06/05/84	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01087	VANADIUM, TOTAL (UG/L AS V)	05/22/84-06/05/84	2	8.5	8.5	10.	7.	4.5	2.121	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	01/04/84-06/28/84	11	10700.	11870.	21200.	5230.	19411200.	4405.814	5546.	9330.	14100.	20180.
01092	ZINC, TOTAL (UG/L AS ZN)	01/04/84-06/28/84	13	11800.	11418.462	18800.	5040.	15209980.769	3899.998	5288.	9140.	13800.	17800.
01097	ANTIMONY, TOTAL (UG/L AS SB)	05/22/84-06/05/84	2 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01102	TIN, TOTAL (UG/L AS SN)	06/05/84-06/05/84	1 ##	100.	100.	100.	100.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	05/22/84-06/05/84	2	26600.	26600.	29300.	23900.	14580000.	3818.377	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	05/22/84-06/05/84	2 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01171	PLATINUM,WHOLE WATER SAMPLE,UG/L	05/22/84-06/05/84	2 ##	29.5	29.5	54.	5.	1200.5	34.648	**	**	**	**

** - Less than 9 observations ## - 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: WHIS0097

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/22/84-06/05/84	2	996.	996.	1020.	972.	1152.	33.941	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	05/22/84-06/05/84	2 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
71910	GOLD, TOTAL (UG/L AS AU)	05/22/84-06/05/84	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
82032	CALCIUM - TOTAL UG/L (AS CA)	05/22/84-06/05/84	2	16900.	16900.	20900.	12900.	32000000.	5656.854	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0097

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	12	0	0.00	2	0	0.00	4	0	0.00	6	0	0.00			
		Other-Lo Lim.	6.5	12	12	1.00	2	2	1.00	4	4	1.00	6	6	1.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	250.	2	0	0.00	1	0	0.00				1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	13	11	0.85	2	2	1.00	4	3	0.75	7	6	0.86			
01002	ARSENIC, TOTAL	Fresh Acute	360.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	50.	2	0	0.00	1	0	0.00				1	0	0.00			
01007	BARIUM, TOTAL	Drinking Water	2000.	2	0	0.00	1	0	0.00				1	0	0.00			
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	4.	2	0	0.00	1	0	0.00				1	0	0.00			
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	11	11	1.00	1	1	1.00	4	4	1.00	6	6	1.00			
		Drinking Water	5.	11	11	1.00	1	1	1.00	4	4	1.00	6	6	1.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	13	13	1.00	2	2	1.00	4	4	1.00	7	7	1.00			
		Drinking Water	5.	13	13	1.00	2	2	1.00	4	4	1.00	7	7	1.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00							1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	11	11	1.00	1	1	1.00	4	4	1.00	6	6	1.00			
		Drinking Water	1300.	11	9	0.82	1	1	1.00	4	4	1.00	6	4	0.67			
01042	COPPER, TOTAL	Fresh Acute	18.	13	13	1.00	2	2	1.00	4	4	1.00	7	7	1.00			
		Drinking Water	1300.	13	11	0.85	2	2	1.00	4	4	1.00	7	5	0.71			
01051	LEAD, TOTAL	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			
01059	THALLIUM, TOTAL	Fresh Acute	1400.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	2.	0 &	0	0.00												
01067	NICKEL, TOTAL	Fresh Acute	1400.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	100.	2	0	0.00	1	0	0.00				1	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	100.	2	0	0.00	1	0	0.00				1	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	11	11	1.00	1	1	1.00	4	4	1.00	6	6	1.00			
		Drinking Water	5000.	11	11	1.00	1	1	1.00	4	4	1.00	6	6	1.00			
01092	ZINC, TOTAL	Fresh Acute	120.	13	13	1.00	2	2	1.00	4	4	1.00	7	7	1.00			
		Drinking Water	5000.	13	13	1.00	2	2	1.00	4	4	1.00	7	7	1.00			
01097	ANTIMONY, TOTAL	Fresh Acute	88.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	6.	0 &	0	0.00												
01147	SELENIUM, TOTAL	Fresh Acute	20.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	50.	2	0	0.00	1	0	0.00				1	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	2.	2	0	0.00	1	0	0.00				1	0	0.00			

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

Station Inventory for Station: WHIS0098

NPS Station ID: WHIS0098
LAT/LON: 40.642781/-122.497505
Agency: 11TOX09
Date Created: 10/20/84
Location: SF SPRING CK AT SCDD NR IRON MT MINE
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM/MINE
STORET Station ID(s): IRONMT-76 /SPRING-76
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 18020112
Depth of Water: 999
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: CA¼RAMENTO RIVER
ECO Region:
RF1 Index: 18020112003
RF1 Mile Point: 3.050
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 18020112000302.14
RF3 Mile Point: 3.34
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: WHIS0098

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: WHIS0099

NPS Station ID: WHIS0099
LAT/LON: 40.643616/-122.495837
Agency: 11TOX09
Date Created: 10/20/84
Location: SPRING CK 100FT BL CONFLUENCE OF SF IN SCDD
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM/MINE
STORET Station ID(s): IRONMT-77 /SPRING-77
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 18020112
Depth of Water: 999
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112003
RF1 Mile Point: 2.900
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 18020112000302.14
RF3 Mile Point: 2.87
Distance from RF3: 0.19
On/Off RF3:
Description:

Parameter Inventory for Station: WHIS0099

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: WHIS0100

NPS Station ID: WHIS0100 LAT/LON: 40.644670/-122.578448 Agency: 11NPSWRD Date Created: 02/07/98
Location: NARROW COVE ON N. SHORE; E. OF OAK BOTTOM MARINA FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /RESERV/TYPA/AMBNT STORET Station ID(s): WHIS_WQCB_27
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 Depth of Water: 0 Aquifer:
Major Basin: CALIFORNIA Elevation: 0 Water Body Id:
Minor Basin: SACRAMENTO RIVER ECO Region:
RF1 Index: 18020112 RF1 Mile Point: 0.000 Distance from RF1: 0.80 On/Off RF1:
RF3 Index: 18010211001600.95 RF3 Mile Point: 5.98 Distance from RF3: 0.04 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE WHISKEYTOWN-CA SHASTA COUNTY 7.5 MINUTE (TOPOGRAPHIC) QUADRANGLE. THE SITE IS DESCRIBED BY THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD (WQCB) AS "NARROW COVE ON NORTH SHORE; EAST OF OAK BOTTOM MARINA." THE SITE IS LOCATED AT WHISKEYTOWN LAKE INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA ARE FROM FOUR BACTERIOLOGICAL SURVEYS PERFORMED BY THE WQCB IN 1986; 1987; 1990 AND 1991. FOR MORE INFORMATION ON THE BACTERIOLOGICAL SURVEYS CONTACT THE WQCB; 415 KNOLLCREST DR. SUITE 100; REDDING CA 96002 (TEL 916-224-4845). FOR MORE INFORMATION ON THE PARK'S WHISKEYTOWN UNIT CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; PO BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN;NATIONAL PARK SERVICE WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX970-225-9965).

Parameter Inventory for Station: WHIS0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/31/90-07/31/90	2 ##	5.25	5.25	9.	1.5	28.125	5.303	**	**	**	**
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	07/31/90-07/31/90	2 ##	0.565	0.565	0.954	0.176	0.303	0.55	**	**	**	**
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			3.674								
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/31/90-07/31/90	2 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/31/90-07/31/90	2 ##	0.176	0.176	0.176	0.176	0.	0.	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			1.5								

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

EPA Water Quality Criteria Analysis for Station: WHIS0100

				Total	Exceed	Prop.	----------6/01-11/09----------			----------11/10-2/20----------			----------2/21-5/31----------			--------------n/a--------------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	2	0	0.00	2	0	0.00									
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	Other-Hi Lim.	200.	2	0	0.00	2	0	0.00									

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

Station Inventory for Station: WHIS0101

NPS Station ID: WHIS0101 | LAT/LON: 40.644670/-122.578448 | Agency: 11NPSWRD | Date Created: 02/20/99
Location: NORTH SHORE WEST OF BRIDGE | FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /RESERV/TYPA/AMBNT | STORET Station ID(s): WHIS_WQCB2_10
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 | Depth of Water: 0 | Aquifer:
Major Basin: CALIFORNIA | Elevation: 0 | Water Body Id:
Minor Basin: SACRAMENTO RIVER | ECO Region:
RF1 Index: 18020112 | RF1 Mile Point: 0.000 | Distance from RF1: 0.80 | On/Off RF1:
RF3 Index: 18010211001600.95 | RF3 Mile Point: 5.98 | Distance from RF3: 0.04 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE WHISKEYTOWN CA-SHASTA COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS DESCRIBED AS "NORTH SHORE WEST OF BRIDGE" AND IS LOCATED ON WHISKEYTOWN LAKE INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA ARE FROM A MEMORANDUM IN THE ARCHIVE FILES LOCATED AT THE PARK AND ARE BELIEVED TO BE FROM THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD. FOR MORE INFORMATION ON THE WHISKEYTOWN UNIT OF THE PARK CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; P.O. BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0101

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/04/77-07/04/77	1	1100.	1100.	1100.	1100.	0.	0.	**	**	**	**
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	07/04/77-07/04/77	1	3.041	3.041	3.041	3.041	0.	0.	**	**	**	**
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			1100.								
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/04/77-07/04/77	1	1100.	1100.	1100.	1100.	0.	0.	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/04/77-07/04/77	1	3.041	3.041	3.041	3.041	0.	0.	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			1100.								

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

EPA Water Quality Criteria Analysis for Station: WHIS0101

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	1	1	1.00	1	1	1.00									
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	Other-Hi Lim.	200.	1	1	1.00	1	1	1.00									

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

Station Inventory for Station: WHIS0102

NPS Station ID: WHIS0102
LAT/LON: 40.645838/-122.496116
Agency: 11TOX09
Date Created: 10/20/84
Location: SPRING CK ENTERING SCDD NR IRON MT MINE
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM/MINE
STORET Station ID(s): IRONMT-75 /SPRING-75
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 18020112
Depth of Water: 999
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112003
RF1 Mile Point: 3.250
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 18020112000302.14
RF3 Mile Point: 5.61
Distance from RF3: 0.06
On/Off RF3:
Description:

Parameter Inventory for Station: WHIS0102

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/04/84-06/05/84	21	9.8	10.6	19.8	6.	11.171	3.342	7.2	8.15	11.7	16.84
00058	FLOW, RATE GALLONS/MIN	01/04/84-05/08/84	19	27.	30.5	70.	11.	318.87	17.857	11.	16.9	43.	61.
00060	FLOW, STREAM, MEAN DAILY CFS	05/22/84-06/05/84	2	9.	9.	10.	8.	2.	1.414	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/04/84-06/05/84	21	1367.	1252.476	1680.	400.	133979.462	366.032	703.6	934.	1575.	1655.
00400	PH (STANDARD UNITS)	01/04/84-06/05/84	21	2.7	2.69	3.2	2.15	0.053	0.229	2.45	2.55	2.825	3.05
00400	CONVERTED PH (STANDARD UNITS)	01/04/84-06/05/84	21	2.7	2.632	3.2	2.15	0.056	0.237	2.45	2.55	2.825	3.05
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/04/84-06/05/84	21	1995.262	2334.777	7079.458	630.957	1838240.056	1355.817	917.97	1498.715	2818.383	3548.134
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/04/84-06/05/84	20	4.	9.575	71.	0.5	253.428	15.919	0.5	1.25	11.	22.6
00927	MAGNESIUM, TOTAL (MG/L AS MG)	05/22/84-06/05/84	2	26200.	26200.	27800.	24600.	5120000.	2262.742	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	05/22/84-06/05/84	2	5537.5	5537.5	5865.	5210.	214512.5	463.155	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	05/22/84-06/05/84	2	2145.	2145.	2610.	1680.	432450.	657.609	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	05/22/84-06/05/84	2 ##	3.25	3.25	6.	0.5	15.125	3.889	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	01/04/84-05/22/84	20	647.	588.3	1030.	53.	61354.432	247.698	207.9	413.75	742.5	873.
00956	SILICA, TOTAL (MG/L AS SI02)	05/22/84-06/05/84	2	3.1	3.1	3.6	2.6	0.5	0.707	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	05/22/84-06/05/84	2	48.5	48.5	58.	39.	180.5	13.435	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	05/22/84-06/05/84	2	14.	14.	17.	11.	18.	4.243	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	05/22/84-06/05/84	2 ##	0.75	0.75	1.	0.5	0.125	0.354	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	01/04/84-05/08/84	19	105.	92.553	190.	0.5	2430.803	49.303	4.	56.	130.	138.
01027	CADMIUM, TOTAL (UG/L AS CD)	01/04/84-06/05/84	21	100.	117.452	520.	0.5	10634.298	103.123	28.8	65.	150.	168.
01034	CHROMIUM, TOTAL (UG/L AS CR)	05/22/84-06/05/84	2	10.	10.	14.	6.	32.	5.657	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	05/22/84-06/05/84	2	35.5	35.5	40.	31.	40.5	6.364	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	01/04/84-05/08/84	19	1950.	1971.105	2875.	966.	374592.655	612.04	1000.	1500.	2600.	2870.
01042	COPPER, TOTAL (UG/L AS CU)	01/04/84-06/05/84	21	2080.	2591.571	17000.	4.	11369500.457	3371.869	972.4	1527.5	2502.5	2740.
01045	IRON, TOTAL (UG/L AS FE)	01/04/84-06/05/84	21	137500.	147357.143	481000.	600.	8963415571.429	94675.317	39400.	96000.	194250.	200200.
01047	IRON, FERROUS (UG/L AS FE)	01/04/84-05/22/84	20	25.	52.68	591.	0.6	16199.88	127.279	9.1	16.5	36.5	49.1
01051	LEAD, TOTAL (UG/L AS PB)	05/22/84-06/05/84	2	15.5	15.5	17.	14.	4.5	2.121	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	05/22/84-06/05/84	2	938.75	938.75	996.5	881.	6670.125	81.671	**	**	**	**
01059	THALLIUM, TOTAL (UG/L AS TL)	05/22/84-06/05/84	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	05/22/84-06/05/84	2 ##	14.75	14.75	22.	7.5	105.125	10.253	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	05/22/84-06/05/84	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01087	VANADIUM, TOTAL (UG/L AS V)	05/22/84-06/05/84	2	27.5	27.5	29.	26.	4.5	2.121	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	01/04/84-05/08/84	19	14150.	13751.053	19500.	3440.	19924832.164	4463.724	5900.	11200.	17400.	19250.
01092	ZINC, TOTAL (UG/L AS ZN)	01/04/84-06/05/84	21	14100.	19832.619	91500.	3250.	437584184.048	20918.513	6074.	11575.	17400.	59790.
01097	ANTIMONY, TOTAL (UG/L AS SB)	05/22/84-06/05/84	2 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01102	TIN, TOTAL (UG/L AS SN)	05/22/84-06/05/84	2 ##	100.	100.	100.	100.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	05/22/84-06/05/84	2	38950.	38950.	41800.	36100.	16245000.	4030.509	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	05/22/84-06/05/84	2 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01171	PLATINUM,WHOLE WATER SAMPLE,UG/L	05/22/84-06/05/84	2	19.75	19.75	23.	16.5	21.125	4.596	**	**	**	**

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

Parameter Inventory for Station: WHIS0102

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/22/84-06/05/84	2	1420.	1420.	1470.	1370.	5000.	70.711	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	05/22/84-06/05/84	2 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
71910	GOLD, TOTAL (UG/L AS AU)	05/22/84-06/05/84	2 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
82032	CALCIUM - TOTAL UG/L (AS CA)	05/22/84-06/05/84	2	15075.	15075.	16050.	14100.	1901250.	1378.858	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0102

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	21	0	0.00	1	0	0.00	7	0	0.00	13	0	0.00			
		Other-Lo Lim.	6.5	21	21	1.00	1	1	1.00	7	7	1.00	13	13	1.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	250.	2	0	0.00	1	0	0.00				1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	20	18	0.90				7	6	0.86	13	12	0.92			
01002	ARSENIC, TOTAL	Fresh Acute	360.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	50.	2	1	0.50	1	1	1.00				1	0	0.00			
01007	BARIUM, TOTAL	Drinking Water	2000.	2	0	0.00	1	0	0.00				1	0	0.00			
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	4.	2	0	0.00	1	0	0.00				1	0	0.00			
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	19	18	0.95				7	6	0.86	12	12	1.00			
		Drinking Water	5.	19	17	0.89				7	6	0.86	12	11	0.92			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	21	20	0.95	1	1	1.00	7	7	1.00	13	12	0.92			
		Drinking Water	5.	21	20	0.95	1	1	1.00	7	7	1.00	13	12	0.92			
01034	CHROMIUM, TOTAL	Drinking Water	100.	2	0	0.00	1	0	0.00				1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	19	19	1.00				7	7	1.00	12	12	1.00			
		Drinking Water	1300.	19	17	0.89				7	7	1.00	12	10	0.83			
01042	COPPER, TOTAL	Fresh Acute	18.	21	20	0.95	1	1	1.00	7	7	1.00	13	12	0.92			
		Drinking Water	1300.	21	18	0.86	1	1	1.00	7	7	1.00	13	10	0.77			
01051	LEAD, TOTAL	Fresh Acute	82.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	15.	2	1	0.50	1	1	1.00				1	0	0.00			
01059	THALLIUM, TOTAL	Fresh Acute	1400.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	2.	0 &	0	0.00												
01067	NICKEL, TOTAL	Fresh Acute	1400.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	100.	2	0	0.00	1	0	0.00				1	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	100.	2	0	0.00	1	0	0.00				1	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	19	19	1.00				7	7	1.00	12	12	1.00			
		Drinking Water	5000.	19	18	0.95				7	7	1.00	12	11	0.92			
01092	ZINC, TOTAL	Fresh Acute	120.	21	21	1.00	1	1	1.00	7	7	1.00	13	13	1.00			
		Drinking Water	5000.	21	20	0.95	1	1	1.00	7	7	1.00	13	12	0.92			
01097	ANTIMONY, TOTAL	Fresh Acute	88.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	6.	0 &	0	0.00												
01147	SELENIUM, TOTAL	Fresh Acute	20.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	50.	2	0	0.00	1	0	0.00				1	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	2.	2	0	0.00	1	0	0.00				1	0	0.00			

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

Station Inventory for Station: WHIS0103

NPS Station ID: WHIS0103 | LAT/LON: 40.645838/-122.586670 | Agency: 113BUREC | Date Created: 03/12/94
Location: WHISKEYTWN LK. DWNSTR OAK BOTTOM TEMP CNTRL CRTN | FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/LAKE | STORET Station ID(s): LWSKOAKBD /SH45
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 | Depth of Water: 0 | Aquifer:
Major Basin: CALIFORNIA | Elevation: 0 | Water Body Id:
Minor Basin: SACRAMENTO RIVER | ECO Region:
RF1 Index: 18020112 | RF1 Mile Point: 0.000 | Distance from RF1: 0.80 | On/Off RF1:
RF3 Index: 18010211001600.95 | RF3 Mile Point: 5.98 | Distance from RF3: 0.04 | On/Off RF3:
Description:
LOCATION: WHISKEYTOWN LAKE, 500 FT. DOWNSTREAM OF OAK BOTTOM TEMPERATURE CONTROL CURTAIN OVER THE OLD CLEAR CREEK CHANNEL. THE INSTRUMENT (DATAMENTOR) IS SECURED INSIDE A LOCKED AND ANCHORED FLOATING CONTAINER HAVING TEMP. PROBES PLACED AT PREDETERMINED ELEVATIONS (PROFILE) LOGGING HOURLY TEMPERATURES.
AVERAGE SURFACE ELEVATION - 1200 FEET ABOVE M.S.L.

Parameter Inventory for Station: WHIS0103

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: WHIS0104

NPS Station ID: WHIS0104
LAT/LON: 40.645838/-122.590281
Agency: 113BUREC
Date Created: 03/12/94
Location: WHISKEYTWN LK. UPSTR OAK BOTTOM TEMP CNTRL CURTN
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): LWSKOAKBU /SH44
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112
Depth of Water: 0
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112
RF1 Mile Point: 0.000
Distance from RF1: 0.80
On/Off RF1:
RF3 Index: 18010211001600.95
RF3 Mile Point: 5.98
Distance from RF3: 0.04
On/Off RF3:
Description:
LOCATION: WHISKEYTOWN LAKE, 500 FT. UPSTREAM OF OAK BOTTOM TEMPERATURE CONTROL CURTAIN OVER THE OLD CLEAR CREEK CHANNEL. THE INSTRUMENT (DATAMENTOR) IS SECURED INSIDE A LOCKED AND ANCHORED FLOATING CONTAINER HAVING TEMP. PROBES PLACED AT PREDETERMINED ELEVATIONS (PROFILE) LOGGING HOURLY TEMPERATURES.
AVERAGE SURFACE ELEVATION - 1200 FEET ABOVE M.S.L.

Parameter Inventory for Station: WHIS0104

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: WHIS0105

NPS Station ID: WHIS0105 | LAT/LON: 40.646142/-122.587754 | Agency: 11NPSWRD | Date Created: 05/23/98
Location: APPROX. 50 M DOWNSTREAM OF OAK BOTTOM CURTAINS | FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /RESERV/TYPA/AMBNT | STORET Station ID(s): WHIS_UCLIM_1
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 | Depth of Water: 0 | Aquifer:
Major Basin: CALIFORNIA | Elevation: 0 | Water Body Id:
Minor Basin: SACRAMENTO RIVER | ECO Region:
RF1 Index: 18020112 | RF1 Mile Point: 0.000 | Distance from RF1: 0.80 | On/Off RF1:
RF3 Index: 18010211001600.95 | RF3 Mile Point: 5.98 | Distance from RF3: 0.04 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE WHISKEYTOWN CA 7.5' SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS LOCATED INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT) ON WHISKEYTOWN LAKE APPROX. 50 METERS DOWNSTREAM OF THE OAK BOTTOM TEMPERATURE CURTAINS. THE DATA ARE FROM THE 1994 U.C. DAVIS REPORT TO THE BUREAU OF RECLAMATION: "A LIMNOLOGICAL INVESTIGATION OF WHISKEYTOWN RESERVOIR: POTENTIAL IMPACTS OF TEMPERATURE CONTROL CURTAINS." CORRECTED DISSOLVED OXYGEN VALUES WERE UPLOADED TO STORET WITH AN ARBITRARY TIME OF 1200. "J" REMARK CODES WERE USED TO FLAG VALUES TAKEN WHILE PROBE WASN'T FULLY SUBMERGED. FOR MORE INFO. ON THE WHISKEYTOWN UNIT OF THE PARK CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA: PO BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0105

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/22/93-08/16/94	164	16.55	17.134	24.7	9.9	18.904	4.348	10.9	14.625	21.2	22.55
00078	TRANSPARENCY, SECCHI DISC (METERS)	04/21/93-08/16/94	11	9.8	9.745	11.3	7.8	1.625	1.275	7.84	8.1	10.8	11.24
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/22/93-08/16/94	164	74.	72.866	90.	62.	32.595	5.709	64.	70.	76.	78.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/22/93-08/16/94	219	8.8	8.854	10.7	7.5	0.498	0.705	7.7	8.3	9.5	9.8
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	07/22/93-08/16/94	219	98.	96.242	114.	85.	26.817	5.179	89.	92.	100.	102.
00406	PH, FIELD, STANDARD UNITS SU	07/22/93-08/16/94	164	7.96	7.968	8.34	7.51	0.041	0.202	7.7	7.82	8.148	8.21
00406	CONVERTED PH, FIELD, STANDARD UNITS	07/22/93-08/16/94	164	7.96	7.921	8.34	7.51	0.043	0.208	7.7	7.82	8.147	8.21
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/22/93-08/16/94	164	0.011	0.012	0.031	0.005	0.	0.006	0.006	0.007	0.015	0.02
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	04/21/93-08/16/94	98	0.005	0.006	0.04	0.	0.	0.006	0.001	0.002	0.01	0.01
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/21/93-08/16/94	98	0.01	0.013	0.031	0.001	0.	0.007	0.005	0.007	0.018	0.024
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/21/93-08/16/94	99	0.002	0.003	0.014	0.	0.	0.003	0.001	0.002	0.004	0.009
32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	04/21/93-08/16/94	99	0.8	0.848	2.	0.09	0.197	0.444	0.3	0.5	1.2	1.5
46480	OXIDATION REDUCTION POTENTIAL, FIELD MV	06/01/94-08/16/94	56	277.	274.446	345.	50.	2805.233	52.964	216.8	242.	321.25	341.3
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	04/21/93-08/16/94	99	0.003	0.004	0.02	0.	0.	0.004	0.001	0.002	0.005	0.007

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

EPA Water Quality Criteria Analysis for Station: WHIS0105

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	219	0	0.00	219	0	0.00									
00406	PH, FIELD	Fresh Chronic	9.	164	0	0.00	164	0	0.00									
		Other-Lo Lim.	6.5	164	0	0.00	164	0	0.00									
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	98	0	0.00	90	0	0.00				8	0	0.00			

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

Station Inventory for Station: WHIS0106

NPS Station ID: WHIS0106 | LAT/LON: 40.646392/-122.550671 | Agency: 11NPSWRD | Date Created: 02/13/99
Location: RED GULCH SE 1/4 NW 1/4 SECT. 9 T32N R6W | FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): WHIS_USGS_RG1
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 | Depth of Water: 0 | Aquifer:
Major Basin: CALIFORNIA | Elevation: 0 | Water Body Id:
Minor Basin: SACRAMENTO RIVER | ECO Region:
RF1 Index: 18020112 | RF1 Mile Point: 0.000 | Distance from RF1: 0.80 | On/Off RF1:
RF3 Index: 18010211001600.95 | RF3 Mile Point: 5.98 | Distance from RF3: 0.04 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE WHISKEYTOWN CA-SHASTA COUNTY 7.5' SERIES (TOPOGRAPHIC) QUADRANGLE INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE SITE IS DESCRIBED BY THE USGS AS "RED GULCH; SE 1/4 NW 1/4; SECT. 9; T32N; R6W." THE SITE LOCATION WAS ESTIMATED TO BE NEAR THE OUTFALL OF RED GULCH INTO WHISKEYTOWN LAKE. DATA WERE COLLECTED BY THE USGS AND LISTED IN A REPORT TITLED "WATER-RESOURCES RECONNAISSANCE OF WHISKEYTOWN NATIONAL RECREATION AREA; CALIFORNIA" DATED 1969. FOR MORE INFORMATION ON THE WHISKEYTOWN UNIT OF THE PARK CONTACT THE CHIEF OF RESOURCES AT THE WHISKEYTOWN-SHASTA- TRINITY NATIONAL RECREATION AREA; P.O. BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NPS WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0106

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/23/68-05/23/68	1	98.	98.	98.	98.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	05/23/68-05/23/68	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/23/68-05/23/68	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/23/68-05/23/68	1	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	05/23/68-05/23/68	1	31.	31.	31.	31.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	05/23/68-05/23/68	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/23/68-05/23/68	1	37.	37.	37.	37.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	05/23/68-05/23/68	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/23/68-05/23/68	1	5.2	5.2	5.2	5.2	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/23/68-05/23/68	1	5.8	5.8	5.8	5.8	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/23/68-05/23/68	1	4.6	4.6	4.6	4.6	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/23/68-05/23/68	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	05/23/68-05/23/68	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	05/23/68-05/23/68	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/23/68-05/23/68	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/23/68-05/23/68	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	05/23/68-05/23/68	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	05/23/68-05/23/68	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	05/23/68-05/23/68	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	05/23/68-05/23/68	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/23/68-05/23/68	1	71.	71.	71.	71.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	05/23/68-05/23/68	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0106

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
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			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	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			
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			
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: WHIS0107

NPS Station ID: WHIS0107 | LAT/LON: 40.646781/-122.552254 | Agency: 11NPSWRD | Date Created: 02/07/98
Location: WHISKEY CREEK GROUP PICNIC AREA | FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /RESERV/TYPA/AMBNT | STORET Station ID(s): WHIS_WQCB_01
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 | Depth of Water: 0 | Aquifer:
Major Basin: CALIFORNIA | Elevation: 0 | Water Body Id:
Minor Basin: SACRAMENTO RIVER | ECO Region:
RF1 Index: 18020112 | RF1 Mile Point: 0.000 | Distance from RF1: 0.80 | On/Off RF1:
RF3 Index: 18010211001600.95 | RF3 Mile Point: 5.98 | Distance from RF3: 0.04 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE WHISKEYTOWN-CA SHASTA COUNTY 7.5 MINUTE (TOPOGRAPHIC) QUADRANGLE. THE SITE IS DESCRIBED BY THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD (WQCB) AS "WHISKEY CREEK GROUP PICNIC AREA." THE SITE IS LOCATED AT WHISKEYTOWN LAKE NEAR THE PICNIC AREA ON THE EAST SIDE OF THE WHISKEY CREEK COVE INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA ARE FROM FOUR BACTERIOLOGICAL SURVEYS PERFORMED BY THE WQCB IN 1986; 1987; 1990 AND 1991. FOR MORE INFORMATION ON THE BACTERIOLOGICAL SURVEY CONTACT THE WQCB; 415 KNOLLCREST DR. SUITE 100; REDDING CA 96002 (TEL 916-224-4845). FOR MORE INFORMATION ON THE WHISKEYTOWN UNIT OF THE PARK CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; P.O. BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NPS WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX970-225-9965).

Parameter Inventory for Station: WHIS0107

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/15/86-07/17/91	7	43.	203.714	1100.	3.	159719.905	399.65	**	**	**	**
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	07/15/86-07/17/91	7	1.633	1.533	3.041	0.477	0.95	0.975	**	**	**	**
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			34.102								
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/15/86-07/17/91	7 ##	1.5	2.071	4.	1.5	1.036	1.018	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/15/86-07/17/91	7 ##	0.176	0.28	0.602	0.176	0.033	0.181	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			1.905								

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

EPA Water Quality Criteria Analysis for Station: WHIS0107

				Total	Exceed	Prop.	----------6/01-11/09----------			----------11/10-2/20----------			----------2/21-5/31----------			--------------n/a--------------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	7	1	0.14	7	1	0.14									
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	Other-Hi Lim.	200.	7	0	0.00	7	0	0.00									

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

Station Inventory for Station: WHIS0108

NPS Station ID: WHIS0108 | LAT/LON: 40.646781/-122.552254 | Agency: 11NPSWRD | Date Created: 02/20/99
Location: WHISKEY CREEK AREA | FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /RESERV/TYPA/AMBNT | STORET Station ID(s): WHIS_WQCB2_03
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 | Depth of Water: 0 | Aquifer:
Major Basin: CALIFORNIA | Elevation: 0 | Water Body Id:
Minor Basin: SACRAMENTO RIVER | ECO Region:
RF1 Index: 18020112 | RF1 Mile Point: 0.000 | Distance from RF1: 0.80 | On/Off RF1:
RF3 Index: 18010211001600.95 | RF3 Mile Point: 5.98 | Distance from RF3: 0.04 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE WHISKEYTOWN CA-SHASTA COUNTY 7.5 MINUTE (TOPOGRAPHIC) QUADRANGLE. THE SITE IS DESCRIBED AS "WHISKEY CREEK AREA" AND IS LOCATED ON WHISKEYTOWN LAKE INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA ARE FROM A MEMORANDUM IN THE ARCHIVE FILES LOCATED AT THE PARK AND ARE BELIEVED TO BE FROM THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD. FOR MORE INFORMATION ON THE WHISKEYTOWN UNIT OF THE PARK CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; P.O. BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0108

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/05/76-07/04/77	4	290.	430.75	1100.	43.	231888.917	481.548	**	**	**	**
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	07/05/76-07/04/77	4	2.371	2.354	3.041	1.633	0.388	0.623	**	**	**	**
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			226.048								
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/05/76-07/04/77	4	13.5	18.5	43.	4.	347.	18.628	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/05/76-07/04/77	4	0.982	1.05	1.633	0.602	0.28	0.529	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			11.216								

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

EPA Water Quality Criteria Analysis for Station: WHIS0108

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	4	1	0.25	4	1	0.25									
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	Other-Hi Lim.	200.	4	0	0.00	4	0	0.00									

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

Station Inventory for Station: WHIS0109

NPS Station ID: WHIS0109 | LAT/LON: 40.646809/-122.625365 | Agency: 11NPSWRD | Date Created: 05/23/98
Location: POWERHOUSE | FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /RESERV/TYPA/AMBNT | STORET Station ID(s): WHIS_NPS_14
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 | Depth of Water: 0 | Aquifer:
Major Basin: CALIFORNIA | Elevation: 0 | Water Body Id:
Minor Basin: SACRAMENTO RIVER | ECO Region:
RF1 Index: 18020112 | RF1 Mile Point: 0.000 | Distance from RF1: 0.80 | On/Off RF1:
RF3 Index: 18010211001600.95 | RF3 Mile Point: 5.98 | Distance from RF3: 0.04 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE FRENCH GULCH CA 7.5' SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE WAS DESCRIBED BY THE NPS AS "POWERHOUSE" AND WAS LOCATED NEAR THE OUTLETS FOR THE JUDGE CARR POWERHOUSE ON WHISKEYTOWN LAKE INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA WERE COLLECTED FROM APPROXIMATELY 1973 UNTIL 1980 BY PARK PERSONNEL FOR FOURTEEN TOTAL LOCATIONS. THE DATA FOR EACH LOCATION WERE IN SEPARATELY BOUND FILES. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; PO BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NPS WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0109

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/23/76-08/16/79	20	11.	11.02	16.	7.	7.819	2.796	7.	8.25	13.75	14.9
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	01/23/76-08/16/79	21	20.	21.443	34.4	8.	64.893	8.056	9.4	14.5	28.95	33.6
00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/15/75-08/16/79	33	4.	5.067	20.	0.	21.997	4.69	0.	1.	8.5	11.2
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	01/23/76-08/16/79	18	92.	89.389	110.	56.	147.31	12.137	72.2	83.75	95.75	101.9
00300	OXYGEN, DISSOLVED MG/L	02/24/76-08/16/79	19	10.	10.2	13.	9.4	0.653	0.808	9.5	9.7	10.3	11.1
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/15/75-08/16/79	33	0.3	0.303	0.5	0.1	0.01	0.102	0.2	0.2	0.4	0.4
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	05/15/75-08/14/76	14	1.875	2.051	5.2	0.37	1.289	1.135	0.66	1.575	2.225	4.3
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	05/15/75-08/14/76	14	0.04	0.059	0.35	0.01	0.007	0.085	0.01	0.028	0.05	0.21
00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/15/75-08/16/79	34	40.	41.559	55.	25.	64.436	8.027	30.	40.	50.	52.5

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

EPA Water Quality Criteria Analysis for Station: WHIS0109

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	33	0	0.00	20	0	0.00	5	0	0.00	8	0	0.00			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	19	0	0.00	13	0	0.00	1	0	0.00	5	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	33	0	0.00	20	0	0.00	5	0	0.00	8	0	0.00			

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

Station Inventory for Station: WHIS0110

NPS Station ID: WHIS0110
LAT/LON: 40.646948/-122.625560
Agency: 21CAL-3
Date Created: 11/29/86
Location: 45-503 CARR MEMORIAL (CLEAR CREEK TUNNEL)
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/MUN/INTAKE/AMBNT/STREAM
STORET Station ID(s): A45/503-INTAKE
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112
Depth of Water: 0
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 18020101003000.58
RF3 Mile Point: 2.35
Distance from RF3: 0.01
On/Off RF3:
Description:
DIST 01 WHISKEYTOWN NATIONAL RECREATION AREA

Parameter Inventory for Station: WHIS0110

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/07/81-10/07/81	1	78.	78.	78.	78.	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	10/07/81-10/07/81	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/07/81-10/07/81	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/07/81-10/07/81	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/07/81-10/07/81	1	42.	42.	42.	42.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/07/81-10/07/81	1	51.	51.	51.	51.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	10/07/81-10/07/81	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/07/81-10/07/81	1	40.	40.	40.	40.	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	10/07/81-10/07/81	1	4.8	4.8	4.8	4.8	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/07/81-10/07/81	1	6.8	6.8	6.8	6.8	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	10/07/81-10/07/81	1	1.9	1.9	1.9	1.9	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	10/07/81-10/07/81	1	0.41	0.41	0.41	0.41	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/07/81-10/07/81	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/07/81-10/07/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	10/07/81-10/07/81	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	10/07/81-10/07/81	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/07/81-10/07/81	1	58.	58.	58.	58.	0.	0.	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	10/07/81-10/07/81	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0110

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00403	PH, LAB	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
		Drinking Water	250.	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00	1	0	0.00									
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	1	0	0.00	1	0	0.00									
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: WHIS0111

NPS Station ID: WHIS0111
LAT/LON: 40.647031/-122.625531
Agency: 11NPSWRD
Date Created: 05/23/98
Location: WHISKEYTOWN NRA-CARR MEMORIAL
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /RESERV/TYPA/AMBNT
STORET Station ID(s): WHIS_NPS_CM1
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112
Depth of Water: 0
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112
RF1 Mile Point: 0.000
Distance from RF1: 0.80
On/Off RF1:
RF3 Index: 18010211001600.95
RF3 Mile Point: 5.98
Distance from RF3: 0.04
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE FRENCH GULCH CALIFORNIA SHASTA COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS DESCRIBED AS "WHISKEYTOWN NRA-CARR MEMORIAL" AND IS LOCATED INSIDE THE WHISKEYTOWN- SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA ARE FROM A BROWN AND CALDWELL CONSULTING ENGINEERS (EMERYVILLE; CALIFORNIA) DATA SHEET IN THE NATIONAL PARK SERVICE WATER RESOURCES DIVISION ARCHIVE FILES IN FORT COLLINS; CO. THE SAMPLES WERE COLLECTED 10/7/1981. FOR MORE INFORMATION ON THE WHISKEYTOWN UNIT OF THE PARK CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA: P.O. BOX 188; WHISKEYTOWN; CALIFORNIA 96095 (TEL 916-241-6584). THE DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NPS WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS; COLORADO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0111

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/07/81-10/07/81	1	78.	78.	78.	78.	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	10/07/81-10/07/81	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/07/81-10/07/81	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/07/81-10/07/81	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00420	ALKALINITY, HYDROXIDE (MG/L AS CACO3)	10/07/81-10/07/81	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00425	ALKALINITY, BICARBONATE (MG/L AS CACO3)	10/07/81-10/07/81	1	42.	42.	42.	42.	0.	0.	**	**	**	**
00430	ALKALINITY, CARBONATE (MG/L AS CACO3)	10/07/81-10/07/81	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/07/81-10/07/81	1	51.	51.	51.	51.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	10/07/81-10/07/81	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/07/81-10/07/81	1	40.	40.	40.	40.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/07/81-10/07/81	1	4.8	4.8	4.8	4.8	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/07/81-10/07/81	1	6.8	6.8	6.8	6.8	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/07/81-10/07/81	1	1.9	1.9	1.9	1.9	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/07/81-10/07/81	1	0.41	0.41	0.41	0.41	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/07/81-10/07/81	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/07/81-10/07/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/07/81-10/07/81	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	10/07/81-10/07/81	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	10/07/81-10/07/81	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	10/07/81-10/07/81	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	10/07/81-10/07/81	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	10/07/81-10/07/81	1	11.	11.	11.	11.	0.	0.	**	**	**	**

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

Parameter Inventory for Station: WHIS0111

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01045	IRON, TOTAL (UG/L AS FE)	10/07/81-10/07/81	1	60.	60.	60.	60.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	10/07/81-10/07/81	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/07/81-10/07/81	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	10/07/81-10/07/81	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	10/07/81-10/07/81	1	70.	70.	70.	70.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	10/07/81-10/07/81	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
01288	FOAMING AGENTS MG/L	10/07/81-10/07/81	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
45634	HARDNESS, CALCIUM, AS CAC03, WATER, WHOLE, MG/L	10/07/81-10/07/81	1	12.	12.	12.	12.	0.	0.	**	**	**	**
45635	HARDNESS, MAGNESIUM, AS CAC03, WATER, WHOLE, MG/L	10/07/81-10/07/81	1	28.	28.	28.	28.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/07/81-10/07/81	1	58.	58.	58.	58.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/07/81-10/07/81	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	10/07/81-10/07/81	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0111

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------6/01-11/09---------- Obs	Exceed	Prop.	----------11/10-2/20---------- Obs	Exceed	Prop.	----------2/21-5/31---------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.
00403	PH, LAB	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
		Drinking Water	250.	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00	1	0	0.00									
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00	1	0	0.00									
01002	ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
01007	BARIUM, TOTAL	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1	0	0.00	1	0	0.00									
		Drinking Water	5.	1	0	0.00	1	0	0.00									
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00	1	0	0.00									
01042	COPPER, TOTAL	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00	1	0	0.00									
		Drinking Water	15.	1	0	0.00	1	0	0.00									
01077	SILVER, TOTAL	Fresh Acute	4.1	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
01147	SELENIUM, TOTAL	Fresh Acute	20.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: WHIS0112

NPS Station ID: WHIS0112 | LAT/LON: 40.647031/-122.625531 | Agency: 11NPSWRD | Date Created: 05/23/98
Location: CARR POWERHOUSE | FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /RESERV/TYPA/AMBNT | STORET Station ID(s): WHIS_NPS_SL1
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 | Depth of Water: 0 | Aquifer:
Major Basin: CALIFORNIA | Elevation: 0 | Water Body Id:
Minor Basin: SACRAMENTO RIVER | ECO Region:
RF1 Index: 18020112 | RF1 Mile Point: 0.000 | Distance from RF1: 0.80 | On/Off RF1:
RF3 Index: 18010211001600.95 | RF3 Mile Point: 5.98 | Distance from RF3: 0.04 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE FRENCH GULCH CALIFORNIA 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS DESCRIBED AS "CARR POWERHOUSE" AND IS LOCATED INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA ARE FROM A DATA SHEET IN THE NATIONAL PARK SERVICE WATER RESOURCES DIVISION ARCHIVE FILES IN FORT COLLINS; COLORADO. THE SAMPLES WERE COLLECTED 6/2/1977 AND WERE ANALYAZED BY A LABORATORY IN JEFFERSONVILLE; INDIANA. FOR MORE INFORMATION ON THE WHISKEYTOWN UNIT OF THE PARK CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA: P.O. BOX 188; WHISKEYTOWN; CALIFORNIA 96095 (TEL 916-241-6584). THE DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NPS WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS; COLORADO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0112

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	06/20/77-06/20/77	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/20/77-06/20/77	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	06/20/77-06/20/77	1	17.	17.	17.	17.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	06/20/77-06/20/77	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	06/20/77-06/20/77	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	06/20/77-06/20/77	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	06/20/77-06/20/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	06/20/77-06/20/77	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	06/20/77-06/20/77	1	230.	230.	230.	230.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	06/20/77-06/20/77	1 ##	3.	3.	3.	3.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	06/20/77-06/20/77	1 ##	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	06/20/77-06/20/77	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	06/20/77-06/20/77	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	06/20/77-06/20/77	1	93.	93.	93.	93.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	06/20/77-06/20/77	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	06/20/77-06/20/77	1	10.	10.	10.	10.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	06/20/77-06/20/77	1	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	06/20/77-06/20/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0112

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00720	CYANIDE, TOTAL	Fresh Acute	0.022	1	0	0.00	1	0	0.00									
		Drinking Water	0.2	1	0	0.00	1	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
		Drinking Water	250.	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00	1	0	0.00									
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00	1	0	0.00									
01002	ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
01007	BARIUM, TOTAL	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1	0	0.00	1	0	0.00									
		Drinking Water	5.	1	0	0.00	1	0	0.00									
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00	1	0	0.00									
01042	COPPER, TOTAL	Fresh Acute	18.	1	1	1.00	1	1	1.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00	1	0	0.00									
		Drinking Water	15.	1	0	0.00	1	0	0.00									
01077	SILVER, TOTAL	Fresh Acute	4.1	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
01147	SELENIUM, TOTAL	Fresh Acute	20.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: WHIS0113

NPS Station ID: WHIS0113 LAT/LON: 40.647031/-122.625531 Agency: 11NPSWRD Date Created: 05/30/98
Location: JUDGE FRANCIS CARR POWERHOUSE TAIL WATER FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): WHIS_CDWR_06
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 Depth of Water: 0 Aquifer:
Major Basin: CALIFORNIA Elevation: 0 Water Body Id:
Minor Basin: SACRAMENTO RIVER ECO Region:
RF1 Index: 18020112 RF1 Mile Point: 0.000 Distance from RF1: 0.80 On/Off RF1:
RF3 Index: 18010211001600.95 RF3 Mile Point: 5.98 Distance from RF3: 0.04 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE FRENCH GULCH CALIFORNIA 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS DESCRIBED BY THE CALIFORNIA DEPARTMENT OF WATER RESOURCES (CDWR) AS "JUDGE FRANCIS CARR POWERHOUSE TAIL WATER" AND IS LOCATED INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA ARE FROM THE CDWR'S DATABASE AND ARE RELATED TO A STUDY OF THE CLEAR CREEK BASIN. THE STUDY BEGAN IN 1997 AND WILL CONTINUE FOR SEVERAL YEARS. FOR MORE INFORMATION ON THE DATA CONTACT THE CDWR; NORTHERN DIVISION: 2440 MAIN STREET; RED BLUFF CALIFORNIA 96080 (TEL 916-529-7300). FOR MORE INFORMATION ON THE WHISKEYTOWN UNIT OF THE PARK CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA: P.O. BOX 188; WHISKEYTOWN CALIFORNIA 96095 (TEL 916-241-6584). THE DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0113

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/06/98-01/06/98	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/06/98-01/06/98	1	45.5	45.5	45.5	45.5	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/13/97-01/06/98	3	84.	82.667	84.	80.	5.333	2.309	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/13/97-01/06/98	3	84.	83.333	86.	80.	9.333	3.055	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	11/13/97-01/06/98	3	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	11/13/97-01/06/98	3	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/13/97-01/06/98	3	0.063	0.063	0.063	0.063	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/13/97-01/06/98	4	39.	39.25	41.	38.	2.25	1.5	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	11/13/97-12/03/97	2 ##	0.013	0.013	0.02	0.005	0.	0.011	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	11/13/97-12/03/97	2 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/13/97-12/03/97	2 ##	0.053	0.053	0.1	0.005	0.005	0.067	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/13/97-11/13/97	1	34.	34.	34.	34.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/13/97-11/13/97	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/13/97-11/13/97	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	11/13/97-11/13/97	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/13/97-11/13/97	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	11/13/97-11/13/97	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	11/13/97-11/13/97	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	11/13/97-12/03/97	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: WHIS0113

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01027	CADMIUM, TOTAL (UG/L AS CD)	11/13/97-12/03/97	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	11/13/97-12/03/97	2 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	11/13/97-12/03/97	2	7.5	7.5	11.	4.	24.5	4.95	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	11/13/97-12/03/97	2	182.5	182.5	206.	159.	1104.5	33.234	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	11/13/97-12/03/97	2	5.	5.	7.	3.	8.	2.828	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	11/13/97-12/03/97	2	7.	7.	8.	6.	2.	1.414	**	**	**	**
01062	MOLYBDENUM, TOTAL (UG/L AS MO)	11/13/97-12/03/97	2	6.	6.	7.	5.	2.	1.414	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	11/13/97-12/03/97	2	9.	9.	10.	8.	2.	1.414	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	11/13/97-12/03/97	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	11/13/97-12/03/97	2	133.	133.	158.	108.	1250.	35.355	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	11/13/97-12/03/97	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/13/97-11/13/97	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
71889	PHOSPHATE, ORTHO, SOLUBLE, AS PO4 (MG/L)	11/13/97-12/03/97	2 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	11/13/97-12/03/97	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	11/13/97-01/06/98	3	5.1	4.933	5.3	4.4	0.223	0.473	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0113

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00406	PH, FIELD	Fresh Chronic	9.	3	0	0.00				3	0	0.00						
		Other-Lo Lim.	6.5	3	0	0.00				3	0	0.00						
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	2	0	0.00				2	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						
01002	ARSENIC, TOTAL	Fresh Acute	360.	2	0	0.00				2	0	0.00						
		Drinking Water	50.	2	0	0.00				2	0	0.00						
01027	CADMIUM, TOTAL	Fresh Acute	3.9	2	0	0.00				2	0	0.00						
		Drinking Water	5.	2	0	0.00				2	0	0.00						
01034	CHROMIUM, TOTAL	Drinking Water	100.	2	0	0.00				2	0	0.00						
01042	COPPER, TOTAL	Fresh Acute	18.	2	0	0.00				2	0	0.00						
		Drinking Water	1300.	2	0	0.00				2	0	0.00						
01051	LEAD, TOTAL	Fresh Acute	82.	2	0	0.00				2	0	0.00						
		Drinking Water	15.	2	0	0.00				2	0	0.00						
01067	NICKEL, TOTAL	Fresh Acute	1400.	2	0	0.00				2	0	0.00						
		Drinking Water	100.	2	0	0.00				2	0	0.00						
01077	SILVER, TOTAL	Fresh Acute	4.1	2	0	0.00				2	0	0.00						
		Drinking Water	100.	2	0	0.00				2	0	0.00						
01147	SELENIUM, TOTAL	Fresh Acute	20.	2	0	0.00				2	0	0.00						
		Drinking Water	50.	2	0	0.00				2	0	0.00						
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	0 &	0	0.00												
71900	MERCURY, TOTAL	Fresh Acute	2.4	2	0	0.00				2	0	0.00						
		Drinking Water	2.	2	0	0.00				2	0	0.00						
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	3	0	0.00				3	0	0.00						

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

Station Inventory for Station: WHIS0114

NPS Station ID: WHIS0114 | LAT/LON: 40.647059/-122.625477 | Agency: 11NPSWRD | Date Created: 05/23/98
Location: CARR POWERHOUSE | FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /RESERV/TYPA/AMBNT | STORET Station ID(s): WHIS_UCLIM_PH
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 | Depth of Water: 0 | Aquifer:
Major Basin: CALIFORNIA | Elevation: 0 | Water Body Id:
Minor Basin: SACRAMENTO RIVER | ECO Region:
RF1 Index: 18020112 | RF1 Mile Point: 0.000 | Distance from RF1: 0.80 | On/Off RF1:
RF3 Index: 18010211001600.95 | RF3 Mile Point: 5.98 | Distance from RF3: 0.04 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE WHISKEYTOWN CA-SHASTA COUNTY 7.5' SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS LOCATED ON WHISKEYTOWN LAKE ADJACENT TO THE CARR POWERHOUSE OUTLETS INSIDE THE WHISKEYTOWN-SHASTA- TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA ARE FROM A 1994 REPORT TO THE BUREAU OF RECLAMATION BY THE UNIVERSITY OF CALIFORNIA AT DAVIS TITLED "A LIMNOLOGICAL INVESTIGATION OF WHISKEYTOWN RESERVOIR: POTENTIAL IMPACTS OF TEMPERATURE CONTROL CURTAINS." FOR MORE INFORMATION ON THE WHISKEYTOWN UNIT OF THE PARK CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA: PO BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0114

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	04/21/93-07/27/94	8	0.01	0.009	0.02	0.	0.	0.006	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/21/93-08/16/94	10	0.029	0.031	0.05	0.023	0.	0.009	0.023	0.025	0.035	0.049
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/21/93-08/16/94	10	0.019	0.018	0.023	0.007	0.	0.005	0.008	0.016	0.021	0.023
32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	04/21/93-08/16/94	10	1.35	1.879	6.	0.09	3.048	1.746	0.151	0.7	2.625	5.73
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	04/21/93-08/16/94	10	0.004	0.005	0.01	0.001	0.	0.003	0.001	0.002	0.008	0.01

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

EPA Water Quality Criteria Analysis for Station: WHIS0114

				Total	Exceed	Prop.	6/01-11/09			11/10-2/20			2/21-5/31			n/a		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	8	0	0.00	7	0	0.00				1	0	0.00			

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

Station Inventory for Station: WHIS0115

NPS Station ID: WHIS0115 | LAT/LON: 40.647115/-122.625226 | Agency: 11NPSWRD | Date Created: 02/07/98
Location: OUTLET TO POWERHOUSE | FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /RESERV/TYPA/AMBNT | STORET Station ID(s): WHIS_WQCB_33
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 | Depth of Water: 0 | Aquifer:
Major Basin: CALIFORNIA | Elevation: 0 | Water Body Id:
Minor Basin: SACRAMENTO RIVER | ECO Region:
RF1 Index: 18020112 | RF1 Mile Point: 0.000 | Distance from RF1: 0.80 | On/Off RF1:
RF3 Index: 18010211001600.95 | RF3 Mile Point: 5.98 | Distance from RF3: 0.04 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE FRENCH GULCH-CA SHASTA COUNTY 7.5 MINUTE (TOPOGRAPHIC) QUADRANGLE. THE SITE IS DESCRIBED BY THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD (WQCB) AS "OUTLET TO POWERHOUSE." THE SITE IS LOCATED AT WHISKEYTOWN LAKE INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA ARE FROM FOUR BACTERIOLOGICAL SURVEYS PERFORMED BY THE WQCB IN 1986; 1987; 1990 AND 1991. FOR MORE INFORMATION ON THE BACTERIOLOGICAL SURVEYS CONTACT THE WQCB; 415 KNOLLCREST DR. SUITE 100; REDDING CA 96002 (TEL 916-224-4845). FOR MORE INFORMATION ON THE PARK'S WHISKEYTOWN UNIT CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; P.O. BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX970-225-9965).

Parameter Inventory for Station: WHIS0115

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/07/87-07/07/87	2	26.	26.	43.	9.	578.	24.042	**	**	**	**
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	07/07/87-07/07/87	2	1.294	1.294	1.633	0.954	0.231	0.48	**	**	**	**
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			19.672								
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/07/87-07/07/87	2 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/07/87-07/07/87	2 ##	0.176	0.176	0.176	0.176	0.	0.	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			1.5								

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

EPA Water Quality Criteria Analysis for Station: WHIS0115

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	2	0	0.00	2	0	0.00									
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	Other-Hi Lim.	200.	2	0	0.00	2	0	0.00									

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

Station Inventory for Station: WHIS0116

NPS Station ID: WHIS0116 | LAT/LON: 40.647115/-122.625226 | Agency: 11NPSWRD | Date Created: 02/20/99
Location: CARR POWERHOUSE AREA | FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /RESERV/TYPA/AMBNT | STORET Station ID(s): WHIS_WQCB2_01
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 | Depth of Water: 0 | Aquifer:
Major Basin: CALIFORNIA | Elevation: 0 | Water Body Id:
Minor Basin: SACRAMENTO RIVER | ECO Region:
RF1 Index: 18020112 | RF1 Mile Point: 0.000 | Distance from RF1: 0.80 | On/Off RF1:
RF3 Index: 18010211001600.95 | RF3 Mile Point: 5.98 | Distance from RF3: 0.04 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE FRENCH GULCH CALIFORNIA 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS DESCRIBED AS "CARR POWERHOUSE AREA" AND IS LOCATED ON WHISKEYTOWN LAKE INSIDE THE WHISKEYTOWN-SHASTA- TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA ARE FROM A MEMORANDUM IN THE ARCHIVE FILES LOCATED AT THE PARK; THE MEMORANDUM IS BELIEVED TO BE FROM THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD. FOR MORE INFORMATION ON THE WHISKEYTOWN UNIT OF THE PARK CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; P.O. BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0116

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/05/76-07/05/76	2	240.	240.	240.	240.	0.	0.	**	**	**	**
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	07/05/76-07/05/76	2	2.38	2.38	2.38	2.38	0.	0.	**	**	**	**
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			240.								
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/05/76-07/05/76	2	4.	4.	4.	4.	0.	0.	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/05/76-07/05/76	2	0.602	0.602	0.602	0.602	0.	0.	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			4.								

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

EPA Water Quality Criteria Analysis for Station: WHIS0116

				Total	Exceed	Prop.	6/01-11/09			11/10-2/20			2/21-5/31			n/a		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	2	0	0.00	2	0	0.00									
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	Other-Hi Lim.	200.	2	0	0.00	2	0	0.00									

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

Station Inventory for Station: WHIS0117

NPS Station ID: WHIS0117 | LAT/LON: 40.647170/-122.592060 | Agency: 11NPSWRD | Date Created: 05/23/98
Location: APPROX. 50 M UPSTREAM OF OAK BOTTOM CURTAINS | FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /RESERV/TYPA/AMBNT | STORET Station ID(s): WHIS_UCLIM_0
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 | Depth of Water: 0 | Aquifer:
Major Basin: CALIFORNIA | Elevation: 0 | Water Body Id:
Minor Basin: SACRAMENTO RIVER | ECO Region:
RF1 Index: 18020112 | RF1 Mile Point: 0.000 | Distance from RF1: 0.80 | On/Off RF1:
RF3 Index: 18010211001600.95 | RF3 Mile Point: 5.98 | Distance from RF3: 0.04 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE WHISKEYTOWN CA 7.5' SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS LOCATED INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT) ON WHISKEYTOWN LAKE APPROX. 50 METERS UPSTREAM OF THE OAK BOTTOM TEMPERATURE CURTAINS. THE DATA ARE FROM THE 1994 U.C. DAVIS REPORT TO THE BUREAU OF RECLAMATION: "A LIMNOLOGICAL INVESTIGATION OF WHISKEYTOWN RESERVOIR: POTENTIAL IMPACTS OF TEMPERATURE CONTROL CURTAINS." CORRECTED DISSOLVED OXYGEN VALUES WERE UPLOADED TO STORET WITH AN ARBITRARY TIME OF 1200. "J" REMARK CODES WERE USED TO FLAG VALUES TAKEN WHILE PROBE WASN'T FULLY SUBMERGED. FOR MORE INFO. ON THE WHISKEYTOWN UNIT OF THE PARK CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA: PO BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0117

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/22/93-08/16/94	155	15.9	16.055	24.4	10.	14.45	3.801	10.58	13.5	18.8	21.3
00078	TRANSPARENCY, SECCHI DISC (METERS)	07/06/93-08/16/94	10	8.7	8.42	10.3	6.5	1.697	1.303	6.5	7.25	9.25	10.27
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/22/93-08/16/94	155	72.	72.013	88.	62.	26.519	5.15	64.	68.	76.	76.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/22/93-08/16/94	208	9.2	9.033	10.3	7.6	0.43	0.656	8.1	8.5	9.5	9.9
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	07/22/93-08/16/94	208	97.	96.067	106.	88.	29.261	5.409	89.	90.25	101.	103.
00406	PH, FIELD, STANDARD UNITS SU	07/22/93-08/16/94	155	7.98	7.911	8.36	7.46	0.038	0.195	7.55	7.81	8.01	8.11
00406	CONVERTED PH, FIELD, STANDARD UNITS	07/22/93-08/16/94	155	7.98	7.864	8.36	7.46	0.04	0.201	7.55	7.81	8.01	8.11
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/22/93-08/16/94	155	0.01	0.014	0.035	0.004	0.	0.007	0.008	0.01	0.015	0.028
46480	OXIDATION REDUCTION POTENTIAL, FIELD MV	06/01/94-08/16/94	50	279.	278.12	330.	184.	1341.944	36.633	225.	256.25	311.5	325.9

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

EPA Water Quality Criteria Analysis for Station: WHIS0117

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	208	0	0.00	208	0	0.00									
00406	PH, FIELD	Fresh Chronic	9.	155	0	0.00	155	0	0.00									
		Other-Lo Lim.	6.5	155	0	0.00	155	0	0.00									

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

Station Inventory for Station: WHIS0118

NPS Station ID: WHIS0118 LAT/LON: 40.647226/-122.625560 Agency: 113BUREC Date Created: 03/12/94
Location: WHISKEYTOWN LAKE AT THE CARR POWERPLANT OUTLET FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): LWSKTWN6 /SH48
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 Depth of Water: 0 Aquifer:
Major Basin: CALIFORNIA Elevation: 0 Water Body Id:
Minor Basin: SACRAMENTO RIVER ECO Region:
RF1 Index: 18020112 RF1 Mile Point: 0.000 Distance from RF1: 0.80 On/Off RF1:
RF3 Index: 18010211001600.95 RF3 Mile Point: 5.98 Distance from RF3: 0.04 On/Off RF3:
Description:
LOCATION: WHISKEYTOWN LAKE AT CARR POWERPLANT OUTLET. THE INSTRUMENT (TEMPMENTOR) IS SECURED INSIDE THE POWERPLANT ON THE NORTHEAST WALL (ABOVE THE OUTLET) AND CONSISTS OF A SINGULAR TEMPERATURE PROBE LOGGING HOURLY TEMPERATURES FROM A SINGLE ELEVATION. SURFACE ELEVATION - 1200 FEET ABOVE M.S.L.

Parameter Inventory for Station: WHIS0118

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: WHIS0119

NPS Station ID: WHIS0119
LAT/LON: 40.647504/-122.502503
Agency: 11TOX09
Date Created: 10/13/84
Location: SLICKROCK CK AT ELEVATION 1430 FT
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM/MINE
STORET Station ID(s): IRONMT-616 /SLICKROCK616
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 18020112
Depth of Water: 999
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112003
RF1 Mile Point: 3.500
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 18020112000302.14
RF3 Mile Point: 5.46
Distance from RF3: 0.32
On/Off RF3:
Description:

Parameter Inventory for Station: WHIS0119

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/13/84-06/13/84	1	17.5	17.5	17.5	17.5	0.	0.	**	**	**	**
00058	FLOW, RATE GALLONS/MIN	06/13/84-06/13/84	1	0.65	0.65	0.65	0.65	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/13/84-06/13/84	1	2600.	2600.	2600.	2600.	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/13/84-06/13/84	1	70.	70.	70.	70.	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	06/13/84-06/13/84	1	91200.	91200.	91200.	91200.	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	06/13/84-06/13/84	1	5310.	5310.	5310.	5310.	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	06/13/84-06/13/84	1 ##	100.	100.	100.	100.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/13/84-06/13/84	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	06/13/84-06/13/84	1	1720.	1720.	1720.	1720.	0.	0.	**	**	**	**
00956	SILICA, TOTAL (MG/L AS SI02)	06/13/84-06/13/84	1	3.7	3.7	3.7	3.7	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	06/13/84-06/13/84	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	06/13/84-06/13/84	1	8.	8.	8.	8.	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	06/13/84-06/13/84	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	06/13/84-06/13/84	1	114.	114.	114.	114.	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	06/13/84-06/13/84	1	16.	16.	16.	16.	0.	0.	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	06/13/84-06/13/84	1	126.	126.	126.	126.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	06/13/84-06/13/84	1	12700.	12700.	12700.	12700.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	06/13/84-06/13/84	1	166000.	166000.	166000.	166000.	0.	0.	**	**	**	**
01047	IRON, FERROUS (UG/L AS FE)	06/13/84-06/13/84	1	18.	18.	18.	18.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	06/13/84-06/13/84	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	06/13/84-06/13/84	1	3430.	3430.	3430.	3430.	0.	0.	**	**	**	**
01059	THALLIUM, TOTAL (UG/L AS TL)	06/13/84-06/13/84	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	06/13/84-06/13/84	1	40.	40.	40.	40.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	06/13/84-06/13/84	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01087	VANADIUM, TOTAL (UG/L AS V)	06/13/84-06/13/84	1	19.	19.	19.	19.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	06/13/84-06/13/84	1	12800.	12800.	12800.	12800.	0.	0.	**	**	**	**
01097	ANTIMONY, TOTAL (UG/L AS SB)	06/13/84-06/13/84	1 ##	3.	3.	3.	3.	0.	0.	**	**	**	**
01102	TIN, TOTAL (UG/L AS SN)	06/13/84-06/13/84	1 ##	100.	100.	100.	100.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	06/13/84-06/13/84	1	128000.	128000.	128000.	128000.	0.	0.	**	**	**	**
01171	PLATINUM,WHOLE WATER SAMPLE,UG/L	06/13/84-06/13/84	1	18.	18.	18.	18.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	06/13/84-06/13/84	1	2370.	2370.	2370.	2370.	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	06/13/84-06/13/84	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
71910	GOLD, TOTAL (UG/L AS AU)	06/13/84-06/13/84	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
82032	CALCIUM - TOTAL UG/L (AS CA)	06/13/84-06/13/84	1	30300.	30300.	30300.	30300.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0119

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a 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									
01002	ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
01007	BARIUM, TOTAL	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	1	0	0.00	1	0	0.00									
		Drinking Water	4.	1	0	0.00	1	0	0.00									
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1	1	1.00	1	1	1.00									
		Drinking Water	5.	1	1	1.00	1	1	1.00									
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00	1	0	0.00									
01042	COPPER, TOTAL	Fresh Acute	18.	1	1	1.00	1	1	1.00									
		Drinking Water	1300.	1	1	1.00	1	1	1.00									
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00	1	0	0.00									
		Drinking Water	15.	1	0	0.00	1	0	0.00									
01059	THALLIUM, TOTAL	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01077	SILVER, TOTAL	Fresh Acute	4.1	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01092	ZINC, TOTAL	Fresh Acute	120.	1	1	1.00	1	1	1.00									
		Drinking Water	5000.	1	1	1.00	1	1	1.00									
01097	ANTIMONY, TOTAL	Fresh Acute	88.	1	0	0.00	1	0	0.00									
		Drinking Water	6.	1	0	0.00	1	0	0.00									
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: WHIS0120

NPS Station ID: WHIS0120
LAT/LON: 40.647504/-122.591670
Agency: 21CAL-3
Date Created: 11/29/86
Location: 45-507 OAK BOTTOM (WHISKEYTOWN LAKE)
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/MUN/INTAKE/AMBNT/LAKE
STORET Station ID(s): A45/507-INTAKE
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112
Depth of Water: 0
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112
RF1 Mile Point: 0.000
Distance from RF1: 2.80
On/Off RF1:
RF3 Index: 18020112000500.04
RF3 Mile Point: 0.04
Distance from RF3: 0.00
On/Off RF3:
Description:
DIST 01 WHISKEYTOWN NATIONAL RECREATION AREA

Parameter Inventory for Station: WHIS0120

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/17/80-10/07/81	2	105.	105.	130.	80.	1250.	35.355	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	03/17/80-10/07/81	2	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	03/17/80-10/07/81	2	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/80-10/07/81	2	0.032	0.032	0.032	0.032	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/17/80-10/07/81	2	45.	45.	47.	43.	8.	2.828	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	03/17/80-10/07/81	2	54.5	54.5	57.	52.	12.5	3.536	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	03/17/80-10/07/81	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	03/17/80-10/07/81	2	47.	47.	56.	38.	162.	12.728	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	03/17/80-10/07/81	2	8.1	8.1	11.	5.2	16.82	4.101	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	03/17/80-10/07/81	2	6.55	6.55	7.	6.1	0.405	0.636	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	03/17/80-10/07/81	2	3.55	3.55	4.5	2.6	1.805	1.344	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	03/17/80-10/07/81	2	0.56	0.56	0.72	0.4	0.051	0.226	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	03/17/80-10/07/81	2	6.02	6.02	12.	0.04	71.521	8.457	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	03/17/80-10/07/81	2	2.5	2.5	3.	2.	0.5	0.707	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	03/17/80-10/07/81	2 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	03/17/80-10/07/81	2 ##	0.013	0.013	0.015	0.01	0.	0.004	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/17/80-10/07/81	2	75.	75.	87.	63.	288.	16.971	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/17/80-10/07/81	2 ##	0.023	0.023	0.025	0.02	0.	0.004	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0120

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00403	PH, LAB	Fresh Chronic	9.	2	0	0.00	1	0	0.00				1	0	0.00			
		Other-Lo Lim.	6.5	2	0	0.00	1	0	0.00				1	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	250.	2	0	0.00	1	0	0.00				1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	2	0	0.00	1	0	0.00				1	0	0.00			
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	2	0	0.00	1	0	0.00				1	0	0.00			
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	2	0	0.00	1	0	0.00				1	0	0.00			

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

Station Inventory for Station: WHIS0121

NPS Station ID: WHIS0121 | LAT/LON: 40.647726/-122.586698 | Agency: 11NPSWRD | Date Created: 02/07/98
Location: POINT EAST OF OAK BOTTOM PICNIC AREA | FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /RESERV/TYPA/AMBNT | STORET Station ID(s): WHIS_WQCB_30
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 | Depth of Water: 0 | Aquifer:
Major Basin: CALIFORNIA | Elevation: 0 | Water Body Id:
Minor Basin: SACRAMENTO RIVER | ECO Region:
RF1 Index: 18020112 | RF1 Mile Point: 0.000 | Distance from RF1: 0.80 | On/Off RF1:
RF3 Index: 18010211001600.95 | RF3 Mile Point: 5.98 | Distance from RF3: 0.04 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE WHISKEYTOWN-CA SHASTA COUNTY 7.5 MINUTE (TOPOGRAPHIC) QUADRANGLE. THE SITE IS DESCRIBED BY THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD (WQCB) AS "POINT EAST OF OAK BOTTOM BEACH PICNIC AREA." THE SITE IS LOCATED AT WHISKEYTOWN LAKE INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA ARE FROM FOUR BACTERIOLOGICAL SURVEYS PERFORMED BY THE WQCB IN 1986; 1987; 1990 AND 1991. FOR MORE INFORMATION ON THE BACTERIOLOGICAL SURVEYS CONTACT THE WQCB; 415 KNOLLCREST DR. SUITE 100; REDDING CA 96002 (TEL 916-224-4845). FOR MORE INFORMATION ON THE PARK'S WHISKEYTOWN UNIT CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; PO BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN;NATIONAL PARK SERVICE WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX970-225-9965).

Parameter Inventory for Station: WHIS0121

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/31/90-07/31/90	2 ##	4.25	4.25	7.	1.5	15.125	3.889	**	**	**	**
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	07/31/90-07/31/90	2 ##	0.511	0.511	0.845	0.176	0.224	0.473	**	**	**	**
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			3.24								
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/31/90-07/31/90	2 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/31/90-07/31/90	2 ##	0.176	0.176	0.176	0.176	0.	0.	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			1.5								

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

EPA Water Quality Criteria Analysis for Station: WHIS0121

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	2	0	0.00	2	0	0.00									
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	Other-Hi Lim.	200.	2	0	0.00	2	0	0.00									

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

Station Inventory for Station: WHIS0122

NPS Station ID: WHIS0122 | LAT/LON: 40.647976/-122.588310 | Agency: 11NPSWRD | Date Created: 02/07/98
Location: OAK BOTTOM BEACH | FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /RESERV/TYPA/AMBNT | STORET Station ID(s): WHIS_WQCB_31
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 | Depth of Water: 0 | Aquifer:
Major Basin: CALIFORNIA | Elevation: 0 | Water Body Id:
Minor Basin: SACRAMENTO RIVER | ECO Region:
RF1 Index: 18020112 | RF1 Mile Point: 0.000 | Distance from RF1: 0.80 | On/Off RF1:
RF3 Index: 18010211001600.95 | RF3 Mile Point: 5.98 | Distance from RF3: 0.04 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE WHISKEYTOWN-CA SHASTA COUNTY 7.5 MINUTE (TOPOGRAPHIC) QUADRANGLE. THE SITE IS DESCRIBED BY THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD (WQCB) AS "OAK BOTTOM BEACH." THE SITE IS LOCATED AT WHISKEYTOWN LAKE INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA ARE FROM FOUR BACTERIOLOGICAL SURVEYS PERFORMED BY THE WQCB IN 1986; 1987; 1990 AND 1991. FOR MORE INFORMATION ON THE BACTERIOLOGICAL SURVEYS CONTACT THE WQCB; 415 KNOLLCREST DR. SUITE 100; REDDING CA 96002 (TEL 916-224-4845). FOR MORE INFORMATION ON THE PARK'S WHISKEYTOWN UNIT CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; P.O. BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX970-225-9965).

Parameter Inventory for Station: WHIS0122

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/15/86-07/17/91	11	93.	183.273	1100.	4.	97283.218	311.903	4.6	43.	150.	928.
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	07/15/86-07/17/91	11	1.968	1.854	3.041	0.602	0.462	0.679	0.651	1.633	2.176	2.909
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			71.44								
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/15/86-07/17/91	11	4.	121.227	1100.	1.5	106256.668	325.97	1.5	1.5	43.	898.6
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/15/86-07/17/91	11	0.602	1.036	3.041	0.176	0.985	0.992	0.176	0.176	1.633	2.827
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			10.857								

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

EPA Water Quality Criteria Analysis for Station: WHIS0122

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	11	1	0.09	11	1	0.09									
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	Other-Hi Lim.	200.	11	1	0.09	11	1	0.09									

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

Station Inventory for Station: WHIS0123

NPS Station ID: WHIS0123 | LAT/LON: 40.647976/-122.588310 | Agency: 11NPSWRD | Date Created: 02/20/99
Location: OAK BOTTOM AREA | FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /RESERV/TYPA/AMBNT | STORET Station ID(s): WHIS_WQCB2_02
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 | Depth of Water: 0 | Aquifer:
Major Basin: CALIFORNIA | Elevation: 0 | Water Body Id:
Minor Basin: SACRAMENTO RIVER | ECO Region:
RF1 Index: 18020112 | RF1 Mile Point: 0.000 | Distance from RF1: 0.80 | On/Off RF1:
RF3 Index: 18010211001600.95 | RF3 Mile Point: 5.98 | Distance from RF3: 0.04 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE WHISKEYTOWN CA-SHASTA COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS DESCRIBED AS "OAK BOTTOM AREA" AND IS LOCATED ON WHISKEYTOWN LAKE INSIDE THE WHISKEYTOWN-SHASTA- TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA ARE FROM A MEMORANDUM IN THE ARCHIVE FILES LOCATED AT THE PARK AND ARE BELIEVED TO BE FROM THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD. FOR MORE INFORMATION ON THE WHISKEYTOWN UNIT OF THE PARK CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; P.O. BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0123

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/05/76-07/04/77	4	195.	231.25	460.	75.	27806.25	166.752	**	**	**	**
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	07/05/76-07/04/77	4	2.278	2.274	2.663	1.875	0.11	0.332	**	**	**	**
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			187.729								
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/05/76-07/04/77	4	49.	48.75	93.	4.	1770.917	42.082	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/05/76-07/04/77	4	1.618	1.452	1.968	0.602	0.392	0.626	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			28.303								

** - 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 time series plot

EPA Water Quality Criteria Analysis for Station: WHIS0123

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	4	0	0.00	4	0	0.00									
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	Other-Hi Lim.	200.	4	0	0.00	4	0	0.00									

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

Station Inventory for Station: WHIS0124

NPS Station ID: WHIS0124
LAT/LON: 40.648115/-122.625226
Agency: 11NPSWRD
Date Created: 05/23/98
Location: CARR MEMORIAL (CLEAR CREEK TUNNEL)
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /RESERV/TYPA/AMBNT
STORET Station ID(s): WHIS_CDHS_1
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112
Depth of Water: 0
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112
RF1 Mile Point: 0.000
Distance from RF1: 0.80
On/Off RF1:
RF3 Index: 18010211001600.95
RF3 Mile Point: 5.98
Distance from RF3: 0.04
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE FRENCH GULCH CA 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS DESCRIBED BY THE CALIFORNIA DEPARTMENT OF HEALTH SERVICES (CDHS) AS "CARR MEMORIAL (CLEAR CREEK TUNNEL)" AND IS LOCATED NEAR THE OUTLETS FOR THE JUDGE CARR POWERHOUSE ON WHISKEYTOWN LAKE INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE CDHS DATA WERE OBTAINED FROM THE NATIONAL PARK SERVICE (NPS) AND THREE COMMUNITY SERVICE DISTRICTS. FOR MORE INFORMATION ON THE DATA CONTACT THE CDHS; DRINKING WATER PROGRAM; PO BOX 942732 MS 92; SACRAMENTO CA 94234 (TEL 916-323-4670). FOR MORE INFORMATION ON THE WHISKEYTOWN UNIT OF THE PARK CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; PO BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NPS WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0124

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	04/16/84-04/16/84	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00086	ODOR (THRESHOLD NUMBER AT 60 DEG C)	04/16/84-04/16/84	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/16/84-04/03/86	2	74.5	74.5	77.	72.	12.5	3.536	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	04/16/84-04/03/86	2	6.65	6.65	7.1	6.2	0.405	0.636	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	04/16/84-04/03/86	2	6.45	6.45	7.1	6.2	0.485	0.697	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/16/84-04/03/86	2	0.355	0.355	0.631	0.079	0.152	0.39	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	04/16/84-04/03/86	2	46.	46.	49.	43.	18.	4.243	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	04/16/84-04/03/86	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	12/05/95-12/05/95	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	04/16/84-04/03/86	2	35.	35.	35.	35.	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	04/16/84-04/03/86	2	3.	3.	4.	2.	2.	1.414	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	04/16/84-04/03/86	2	6.5	6.5	7.	6.	0.5	0.707	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	04/16/84-04/03/86	2	1.7	1.7	2.	1.4	0.18	0.424	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	04/16/84-04/03/86	2 ##	0.45	0.45	0.5	0.4	0.005	0.071	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	04/16/84-04/03/86	2 ##	2.5	2.5	4.	1.	4.5	2.121	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	04/16/84-04/03/86	2 ##	1.5	1.5	2.5	0.5	2.	1.414	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	04/16/84-04/03/86	2 ##	0.12	0.12	0.19	0.05	0.01	0.099	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	04/16/84-04/03/86	2 ##	10.	10.	15.	5.	50.	7.071	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	04/16/84-04/03/86	2 ##	250.	250.	250.	250.	0.	0.	**	**	**	**

** - Less than 9 observations ## - 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: WHIS0124

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01027	CADMIUM, TOTAL (UG/L AS CD)	04/16/84-04/03/86	2 ##	7.25	7.25	12.	2.5	45.125	6.718	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	04/16/84-04/03/86	2 ##	10.	10.	15.	5.	50.	7.071	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	04/16/84-04/03/86	2 ##	27.5	27.5	50.	5.	1012.5	31.82	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	04/16/84-04/03/86	2 ##	45.	45.	50.	40.	50.	7.071	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	04/16/84-04/03/86	2 ##	10.	10.	15.	5.	50.	7.071	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	04/16/84-04/03/86	2 ##	10.	10.	15.	5.	50.	7.071	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	04/16/84-04/03/86	2 ##	10.	10.	15.	5.	50.	7.071	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	04/16/84-04/03/86	2 ##	35.	35.	50.	20.	450.	21.213	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	04/16/84-04/03/86	2 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	04/16/84-04/03/86	2 ##	0.033	0.033	0.05	0.015	0.001	0.025	**	**	**	**
39045	2,4,5-TP INCLUDES ACIDS & SALTS WATER SAMPL UG/L	04/16/84-04/16/84	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	04/16/84-04/16/84	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	04/16/84-04/16/84	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	04/16/84-04/16/84	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	04/16/84-04/16/84	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	04/16/84-04/16/84	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/16/84-04/03/86	2	40.5	40.5	48.	33.	112.5	10.607	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	04/16/84-12/05/95	3 ##	0.2	0.233	0.5	0.	0.063	0.252	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	04/16/84-04/03/86	2 ##	0.3	0.3	0.5	0.1	0.08	0.283	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	04/16/84-04/16/84	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0124

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00403	PH, LAB	Fresh Chronic	9.	2	0	0.00							2	0	0.00			
		Other-Lo Lim.	6.5	2	1	0.50							2	1	0.50			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	1	0	0.00				1	0	0.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00							2	0	0.00			
		Drinking Water	250.	2	0	0.00							2	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	2	0	0.00							2	0	0.00			
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	2	0	0.00							2	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	2	0	0.00							2	0	0.00			
		Drinking Water	50.	2	0	0.00							2	0	0.00			
01007	BARIUM, TOTAL	Drinking Water	2000.	2	0	0.00							2	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	2	1	0.50							2	1	0.50			
		Drinking Water	5.	2	1	0.50							2	1	0.50			
01034	CHROMIUM, TOTAL	Drinking Water	100.	2	0	0.00							2	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	1 &	0	0.00							1	0	0.00			
		Drinking Water	1300.	2	0	0.00							2	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	2	0	0.00							2	0	0.00			
		Drinking Water	15.	1 &	0	0.00							1	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	0 &	0	0.00												
		Drinking Water	100.	2	0	0.00							2	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	2	0	0.00							2	0	0.00			
		Drinking Water	5000.	2	0	0.00							2	0	0.00			
01147	SELENIUM, TOTAL	Fresh Acute	20.	2	0	0.00							2	0	0.00			
		Drinking Water	50.	2	0	0.00							2	0	0.00			
39045	2,4,5-TP INCLUDES ACIDS & SALTS WATER SA	Drinking Water	50.	1	0	0.00							1	0	0.00			
39340	GAMMA-BHC(LINDANE), WHOLE WATER	Fresh Acute	2.	1	0	0.00							1	0	0.00			
		Drinking Water	0.2	1	0	0.00							1	0	0.00			
39390	ENDRIN IN WHOLE WATER SAMPLE	Fresh Acute	0.18	1	0	0.00							1	0	0.00			
		Drinking Water	2.	1	0	0.00							1	0	0.00			
39400	TOXAPHENE IN WHOLE WATER SAMPLE	Fresh Acute	0.73	1	0	0.00							1	0	0.00			
		Drinking Water	3.	1	0	0.00							1	0	0.00			
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE	Drinking Water	40.	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			
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	3	0	0.00				1	0	0.00	2	0	0.00			

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

EPA Water Quality Criteria Analysis for Station: WHIS0124

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
71900	MERCURY, TOTAL	Fresh Acute	2.4	2	0	0.00							2	0	0.00			
		Drinking Water	2.	2	0	0.00							2	0	0.00			
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: WHIS0125

NPS Station ID: WHIS0125 | LAT/LON: 40.648559/-122.555448 | Agency: 11NPSWRD | Date Created: 02/20/99
Location: WHISKEY CREEK BOAT RAMP AREA | FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /RESERV/TYPA/AMBNT | STORET Station ID(s): WHIS_WQCB2_09
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 | Depth of Water: 0 | Aquifer:
Major Basin: CALIFORNIA | Elevation: 0 | Water Body Id:
Minor Basin: SACRAMENTO RIVER | ECO Region:
RF1 Index: 18020112 | RF1 Mile Point: 0.000 | Distance from RF1: 0.80 | On/Off RF1:
RF3 Index: 18010211001600.95 | RF3 Mile Point: 5.98 | Distance from RF3: 0.04 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE WHISKEYTOWN CA-SHASTA COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS DESCRIBED AS "WHISKEY CREEK BOAT RAMP AREA" AND IS LOCATED ON WHISKEYTOWN LAKE INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA ARE FROM A MEMORANDUM IN THE ARCHIVE FILES LOCATED AT THE PARK AND ARE BELIEVED TO BE FROM THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD. FOR MORE INFORMATION ON THE WHISKEYTOWN UNIT OF THE PARK CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; P.O. BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0125

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/04/77-07/04/77	1	1100.	1100.	1100.	1100.	0.	0.	**	**	**	**
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	07/04/77-07/04/77	1	3.041	3.041	3.041	3.041	0.	0.	**	**	**	**
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			1100.								
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/04/77-07/04/77	1	43.	43.	43.	43.	0.	0.	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/04/77-07/04/77	1	1.633	1.633	1.633	1.633	0.	0.	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			43.								

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

EPA Water Quality Criteria Analysis for Station: WHIS0125

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	1	1	1.00	1	1	1.00									
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	Other-Hi Lim.	200.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: WHIS0126

NPS Station ID: WHIS0126
LAT/LON: 40.648865/-122.614781
Agency: 11NPSWRD
Date Created: 04/10/99
Location: MITCHELLS WATER INTAKE
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): WHIS_NPS_26
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112
Depth of Water: 0
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112
RF1 Mile Point: 0.000
Distance from RF1: 0.80
On/Off RF1:
RF3 Index: 18010211001600.95
RF3 Mile Point: 5.98
Distance from RF3: 0.04
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE WHISKEYTOWN CA-SHASTA CO. 7.5' SERIES (TOPO.) QUADRANGLE. THE SITE WAS DESCRIBED BY THE NPS AS "MITCHELLS H20 INTAKE" INSIDE OF THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA WERE FROM MISCELLANEOUS PAPERS IN A BROWN FOLDER LABELED "WATER QUALITY." THE FOLDER WAS FROM THE PARK. THE LOCATION OF THE STATION WAS ESTIMATED USING SITE DESCRIPTIONS. LATITUDE AND LONGITUDE VALUES WERE OBTAINED BY DIGITIZING A POINT MARKED ON A QUADRANGLE. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; PO BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NPS WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0126

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00070	TURBIDITY, (JACKSON CANDLE UNITS)	06/05/75-06/05/75	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	06/05/75-06/05/75	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	06/05/75-06/05/75	1	0.98	0.98	0.98	0.98	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	06/05/75-06/05/75	1	0.18	0.18	0.18	0.18	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/05/75-06/05/75	1	35.	35.	35.	35.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	06/05/75-06/05/75	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	06/05/75-06/05/75	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	06/05/75-06/05/75	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	06/05/75-06/05/75	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0126

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	1	0	0.00	1	0	0.00									
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00	1	0	0.00									

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

EPA Water Quality Criteria Analysis for Station: WHIS0126

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
01042 COPPER, TOTAL	Fresh Acute	18.	1	0	0.00	1	0	0.00									
	Drinking Water	1300.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: WHIS0127

NPS Station ID: WHIS0127
LAT/LON: 40.648893/-122.587171
Agency: 11NPSWRD
Date Created: 05/23/98
Location: OAK BOTTOM (WHISKEYTOWN LAKE)
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /RESERV/TYPA/AMBNT
STORET Station ID(s): WHIS_CDHS_4
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112
Depth of Water: 0
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112
RF1 Mile Point: 0.000
Distance from RF1: 0.80
On/Off RF1:
RF3 Index: 18010211001600.95
RF3 Mile Point: 5.98
Distance from RF3: 0.04
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE WHISKEYTOWN CA-SHASTA COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS DESCRIBED BY THE CALIFORNIA DEPARTMENT OF HEALTH SERVICES (CDHS) AS "OAK BOTTOM (WHISKEYTOWN LAKE)" AND IS LOCATED IN THE OAK BOTTOM AREA ON WHISKEYTOWN LAKE INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE CDHS DATA WERE OBTAINED FROM THE NATIONAL PARK SERVICE (NPS) AND THREE COMMUNITY SERVICE DISTRICTS. FOR MORE INFORMATION ON THE DATA CONTACT THE CDHS; DRINKING WATER PROGRAM; PO BOX 942732 MS 92; SACRAMENTO CA 94234 (TEL 916-323-4670). FOR MORE INFORMATION ON THE WHISKEYTOWN UNIT OF THE PARK CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; PO BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NPS WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0127

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/07/85-02/27/92	3	93.	90.	97.	80.	79.	8.888	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	03/07/85-02/27/92	3	7.6	7.467	7.7	7.1	0.103	0.321	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	03/07/85-02/27/92	3	7.6	7.382	7.7	7.1	0.114	0.338	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/07/85-02/27/92	3	0.025	0.042	0.079	0.02	0.001	0.033	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	02/10/89-02/27/92	2	40.5	40.5	43.	38.	12.5	3.536	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	03/07/85-02/27/92	3	46.	47.	52.	43.	21.	4.583	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	03/07/85-02/27/92	3	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	03/07/85-02/27/92	3	38.	38.667	40.	38.	1.333	1.155	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	03/07/85-02/27/92	3	6.1	5.867	6.5	5.	0.603	0.777	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	03/07/85-02/27/92	3	5.4	5.567	6.	5.3	0.143	0.379	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	03/07/85-02/27/92	3	2.86	2.633	3.04	2.	0.309	0.556	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	03/07/85-03/07/85	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	03/07/85-02/27/92	3	2.	3.	5.	2.	3.	1.732	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	03/07/85-02/27/92	3	4.	3.167	5.	0.5	5.583	2.363	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	03/07/85-02/27/92	3 ##	0.025	0.033	0.05	0.025	0.	0.014	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	03/07/85-02/27/92	3 ##	2.5	6.167	15.	1.	59.083	7.687	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	03/07/85-02/27/92	3 ##	12.	89.	250.	5.	19453.	139.474	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	03/07/85-02/27/92	3 ##	1.	1.333	2.5	0.5	1.083	1.041	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	03/07/85-02/27/92	3 ##	1.5	6.	15.	1.5	60.75	7.794	**	**	**	**

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

Parameter Inventory for Station: WHIS0127

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01042	COPPER, TOTAL (UG/L AS CU)	03/07/85-02/27/92	3	2.	101.167	300.	1.5	29651.083	172.195	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	03/07/85-02/27/92	3 ##	50.	63.167	117.	22.5	2362.583	48.606	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	03/07/85-02/27/92	3 ##	1.	5.467	15.	0.4	68.253	8.262	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	03/07/85-02/27/92	3 ##	9.	9.167	15.	3.5	33.083	5.752	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	03/07/85-02/27/92	3 ##	2.	6.	15.	1.	61.	7.81	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	03/07/85-02/27/92	3	76.	100.667	200.	26.	8025.333	89.584	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	02/27/92-02/27/92	1	70.	70.	70.	70.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	03/07/85-02/27/92	3 ##	2.5	2.633	5.	0.4	5.303	2.303	**	**	**	**
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	03/07/85-02/27/92	3 ##	0.01	0.015	0.025	0.01	0.	0.009	**	**	**	**
39045	2,4,5-TP INCLUDES ACIDS & SALTS WATER SAMPL UG/L	03/07/85-03/07/85	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	03/07/85-03/07/85	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	03/07/85-03/07/85	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	03/07/85-03/07/85	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	03/07/85-03/07/85	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	03/07/85-03/07/85	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/07/85-02/27/92	3	52.	69.667	119.	38.	1874.333	43.294	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/07/85-02/27/92	3	0.2	1.767	5.	0.1	7.843	2.801	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	03/07/85-02/27/92	3 ##	0.1	0.233	0.5	0.1	0.053	0.231	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0127

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00403	PH, LAB	Fresh Chronic	9.	3	0	0.00				1	0	0.00	2	0	0.00			
		Other-Lo Lim.	6.5	3	0	0.00				1	0	0.00	2	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	3	0	0.00				1	0	0.00	2	0	0.00			
		Drinking Water	250.	3	0	0.00				1	0	0.00	2	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	3	0	0.00				1	0	0.00	2	0	0.00			
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	3	0	0.00				1	0	0.00	2	0	0.00			
01002	ARSENIC, TOTAL	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			
01007	BARIUM, TOTAL	Drinking Water	2000.	3	0	0.00				1	0	0.00	2	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	3	0	0.00				1	0	0.00	2	0	0.00			
		Drinking Water	5.	3	0	0.00				1	0	0.00	2	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	3	0	0.00				1	0	0.00	2	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	3	1	0.33				1	0	0.00	2	1	0.50			
		Drinking Water	1300.	3	0	0.00				1	0	0.00	2	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	3	0	0.00				1	0	0.00	2	0	0.00			
		Drinking Water	15.	2 &	0	0.00				1	0	0.00	1	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	2 &	0	0.00				1	0	0.00	1	0	0.00			
		Drinking Water	100.	3	0	0.00				1	0	0.00	2	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	3	1	0.33				1	0	0.00	2	1	0.50			
		Drinking Water	5000.	3	0	0.00				1	0	0.00	2	0	0.00			
01147	SELENIUM, TOTAL	Fresh Acute	20.	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			
39045	2,4,5-TP INCLUDES ACIDS & SALTS WATER SA	Drinking Water	50.	1	0	0.00							1	0	0.00			
39340	GAMMA-BHC(LINDANE), WHOLE WATER	Fresh Acute	2.	0 &	0	0.00												
		Drinking Water	0.2	0 &	0	0.00												
39390	ENDRIN IN WHOLE WATER SAMPLE	Fresh Acute	0.18	1	0	0.00							1	0	0.00			
		Drinking Water	2.	1	0	0.00							1	0	0.00			
39400	TOXAPHENE IN WHOLE WATER SAMPLE	Fresh Acute	0.73	0 &	0	0.00												
		Drinking Water	3.	1	0	0.00							1	0	0.00			
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE	Drinking Water	40.	0 &	0	0.00												
39730	2,4-D IN WHOLE WATER SAMPLE	Drinking Water	70.	1	0	0.00							1	0	0.00			
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	3	0	0.00				1	0	0.00	2	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	3	0	0.00				1	0	0.00	2	0	0.00			
		Drinking Water	2.	3	0	0.00				1	0	0.00	2	0	0.00			

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

Station Inventory for Station: WHIS0128

NPS Station ID: WHIS0128
LAT/LON: 40.649170/-122.505282
Agency: 11TOX09
Date Created: 10/13/84
Location: SLICKROCK CK BL TRIBUTARY ELEVATION 1570 FT
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM/MINE
STORET Station ID(s): IRONMT-615 /SLICKROCK615
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 18020112
Depth of Water: 999
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112003
RF1 Mile Point: 3.500
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 18020112011800.00
RF3 Mile Point: 0.60
Distance from RF3: 0.27
On/Off RF3:
Description:

Parameter Inventory for Station: WHIS0128

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/13/84-06/13/84	1	19.	19.	19.	19.	0.	0.	**	**	**	**
00058	FLOW, RATE GALLONS/MIN	06/13/84-06/13/84	1	1.26	1.26	1.26	1.26	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/13/84-06/13/84	1	2400.	2400.	2400.	2400.	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/13/84-06/13/84	1	79.	79.	79.	79.	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	06/13/84-06/13/84	1	93200.	93200.	93200.	93200.	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	06/13/84-06/13/84	1	5250.	5250.	5250.	5250.	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	06/13/84-06/13/84	1 ##	100.	100.	100.	100.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/13/84-06/13/84	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	06/13/84-06/13/84	1	1650.	1650.	1650.	1650.	0.	0.	**	**	**	**
00956	SILICA, TOTAL (MG/L AS SI02)	06/13/84-06/13/84	1	3.1	3.1	3.1	3.1	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	06/13/84-06/13/84	1	16.	16.	16.	16.	0.	0.	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	06/13/84-06/13/84	1	8.	8.	8.	8.	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	06/13/84-06/13/84	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	06/13/84-06/13/84	1	91.	91.	91.	91.	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	06/13/84-06/13/84	1	17.	17.	17.	17.	0.	0.	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	06/13/84-06/13/84	1	123.	123.	123.	123.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	06/13/84-06/13/84	1	13000.	13000.	13000.	13000.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	06/13/84-06/13/84	1	176000.	176000.	176000.	176000.	0.	0.	**	**	**	**
01047	IRON, FERROUS (UG/L AS FE)	06/13/84-06/13/84	1	21.	21.	21.	21.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	06/13/84-06/13/84	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	06/13/84-06/13/84	1	3530.	3530.	3530.	3530.	0.	0.	**	**	**	**
01059	THALLIUM, TOTAL (UG/L AS TL)	06/13/84-06/13/84	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	06/13/84-06/13/84	1	35.	35.	35.	35.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	06/13/84-06/13/84	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01087	VANADIUM, TOTAL (UG/L AS V)	06/13/84-06/13/84	1	18.	18.	18.	18.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	06/13/84-06/13/84	1	13200.	13200.	13200.	13200.	0.	0.	**	**	**	**
01097	ANTIMONY, TOTAL (UG/L AS SB)	06/13/84-06/13/84	1 ##	3.	3.	3.	3.	0.	0.	**	**	**	**
01102	TIN, TOTAL (UG/L AS SN)	06/13/84-06/13/84	1 ##	100.	100.	100.	100.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	06/13/84-06/13/84	1	131000.	131000.	131000.	131000.	0.	0.	**	**	**	**
01171	PLATINUM,WHOLE WATER SAMPLE,UG/L	06/13/84-06/13/84	1	20.	20.	20.	20.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	06/13/84-06/13/84	1	2470.	2470.	2470.	2470.	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	06/13/84-06/13/84	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
71910	GOLD, TOTAL (UG/L AS AU)	06/13/84-06/13/84	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
82032	CALCIUM - TOTAL UG/L (AS CA)	06/13/84-06/13/84	1	31200.	31200.	31200.	31200.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0128

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a 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									
01002	ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
01007	BARIUM, TOTAL	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	1	0	0.00	1	0	0.00									
		Drinking Water	4.	1	0	0.00	1	0	0.00									
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1	1	1.00	1	1	1.00									
		Drinking Water	5.	1	1	1.00	1	1	1.00									
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00	1	0	0.00									
01042	COPPER, TOTAL	Fresh Acute	18.	1	1	1.00	1	1	1.00									
		Drinking Water	1300.	1	1	1.00	1	1	1.00									
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00	1	0	0.00									
		Drinking Water	15.	1	0	0.00	1	0	0.00									
01059	THALLIUM, TOTAL	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01077	SILVER, TOTAL	Fresh Acute	4.1	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01092	ZINC, TOTAL	Fresh Acute	120.	1	1	1.00	1	1	1.00									
		Drinking Water	5000.	1	1	1.00	1	1	1.00									
01097	ANTIMONY, TOTAL	Fresh Acute	88.	1	0	0.00	1	0	0.00									
		Drinking Water	6.	1	0	0.00	1	0	0.00									
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: WHIS0129

NPS Station ID: WHIS0129
LAT/LON: 40.649448/-122.597170
Agency: 11NPSWRD
Date Created: 02/07/98
Location: OAK BOTTOM WATER INTAKE
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /RESERV/TYPA/AMBNT
STORET Station ID(s): WHIS_WQCB_32
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112
Depth of Water: 0
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112
RF1 Mile Point: 0.000
Distance from RF1: 0.80
On/Off RF1:
RF3 Index: 18010211001600.95
RF3 Mile Point: 5.98
Distance from RF3: 0.04
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE WHISKEYTOWN-CA SHASTA COUNTY 7.5 MINUTE (TOPOGRAPHIC) QUADRANGLE. THE SITE IS DESCRIBED BY THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD (WQCB) AS "OAK BOTTOM WATER INTAKE." THE SITE IS LOCATED AT WHISKEYTOWN LAKE INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA ARE FROM FOUR BACTERIOLOGICAL SURVEYS PERFORMED BY THE WQCB IN 1986; 1987; 1990 AND 1991. FOR MORE INFORMATION ON THE BACTERIOLOGICAL SURVEYS CONTACT THE WQCB; 415 KNOLLCREST DR. SUITE 100; REDDING CA 9600 (TEL 916-224-4845). FOR MORE INFORMATION ON THE WHISKEYTOWN UNIT OF THE PARK CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; P.O. BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0129

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/15/86-07/17/91	7	20.	53.571	240.	4.	7362.952	85.808	**	**	**	**
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	07/15/86-07/17/91	7	1.301	1.297	2.38	0.602	0.433	0.658	**	**	**	**
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			19.798								
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/15/86-07/17/91	7 ##	1.5	16.	93.	1.5	1160.5	34.066	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/15/86-07/17/91	7 ##	0.176	0.604	1.968	0.176	0.453	0.673	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			4.019								

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

EPA Water Quality Criteria Analysis for Station: WHIS0129

				Total	Exceed	Prop.	----------6/01-11/09----------			----------11/10-2/20----------			----------2/21-5/31----------			--------------n/a--------------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	7	0	0.00	7	0	0.00									
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	Other-Hi Lim.	200.	7	0	0.00	7	0	0.00									

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

Station Inventory for Station: WHIS0130

NPS Station ID: WHIS0130 LAT/LON: 40.649588/-122.588532 Agency: 11NPSWRD Date Created: 04/10/99
Location: OAK BOTTOM MARINA; EAST END NORTHERNMOST PIER FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /RESERV/TYPA/AMBNT STORET Station ID(s): WHIS_BOR_OBM
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 Depth of Water: 0 Aquifer:
Major Basin: CALIFORNIA Elevation: 0 Water Body Id:
Minor Basin: SACRAMENTO RIVER ECO Region:
RF1 Index: 18020112 RF1 Mile Point: 0.000 Distance from RF1: 0.80 On/Off RF1:
RF3 Index: 18010211001600.95 RF3 Mile Point: 5.98 Distance from RF3: 0.04 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE WHISKEYTOWN CA-SHASTA COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS LOCATED AT WHISKEYTOWN RESERVOIR'S OAK BOTTOM MARINA AT THE EAST END OF THE NORTHERNMOST PIER AND IS INSIDE OF THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA BOUNDARIES. DATA WERE COLLECTED BY THE BUREAU OF RECLAMATION (SACRAMENTO CALIFORNIA) IN ORDER TO ESTABLISH A WATER QUALITY BASELINE FOR SOME OF THE RESERVOIRS UNDER ITS MANAGEMENT. FOR MORE INFORMATION ON WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA CONTACT THE CHIEF OF RESOURCES AT P.O. BOX 188; WHISKEYTOWN CA 96095-0188 (TEL. 916-241-6584). 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: WHIS0130

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
46491	METHYL TERTIARY BUTYL ETHER(MTBE),TOTAL,WATER UG/L	05/19/98-09/08/98	8	5.95	10.613	48.	2.5	235.156	15.335	**	**	**	**

** - Less than 9 observations ## - 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: WHIS0131

NPS Station ID: WHIS0131 LAT/LON: 40.650031/-122.614560 Agency: 11NPSWRD Date Created: 02/13/99
Location: GREENSTONE SPRING NW1/4 NW1/4 SECT. 12 T32N R7W FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/SPRING STORET Station ID(s): WHIS_USGS_GS1
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 Depth of Water: 0 Aquifer:
Major Basin: CALIFORNIA Elevation: 0 Water Body Id:
Minor Basin: SACRAMENTO RIVER ECO Region:
RF1 Index: 18020112 RF1 Mile Point: 0.000 Distance from RF1: 0.80 On/Off RF1:
RF3 Index: 18010211001600.95 RF3 Mile Point: 5.98 Distance from RF3: 0.04 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE WHISKEYTOWN CA-SHASTA COUNTY 7.5' SERIES (TOPOGRAPHIC) QUADRANGLE INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE SITE IS DESCRIBED BY THE USGS AS "GREENSTONE SPRING; NW 1/4 NW 1/4; SECT. 12; T32N; R7W." A SPRING COULD NOT BE IDENTIFIED IN THE VICINITY OF THE LOCATION DESCRIPTION. THE LAT/LONG VALUES USED WERE ESTIMATED. DATA WERE COLLECTED BY THE USGS AND LISTED IN A REPORT TITLED "PROPOSED WELL SITES AT WHISKEYTOWN RESERVOIR; SHASTA COUNTY; CALIFORNIA" DATED 1963. FOR MORE INFORMATION ON THE WHISKEYTOWN UNIT OF THE PARK CONTACT THE CHIEF OF RESOURCES AT THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; P.O. BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0131

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/15/62-11/15/62	1	295.	295.	295.	295.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	11/15/62-11/15/62	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	11/15/62-11/15/62	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/15/62-11/15/62	1	0.032	0.032	0.032	0.032	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	11/15/62-11/15/62	1	195.	195.	195.	195.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	11/15/62-11/15/62	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/15/62-11/15/62	1	152.	152.	152.	152.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	11/15/62-11/15/62	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/15/62-11/15/62	1	36.	36.	36.	36.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/15/62-11/15/62	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	11/15/62-11/15/62	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/15/62-11/15/62	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	11/15/62-11/15/62	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	11/15/62-11/15/62	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/15/62-11/15/62	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	11/15/62-11/15/62	1	29.	29.	29.	29.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	11/15/62-11/15/62	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	11/15/62-11/15/62	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	11/15/62-11/15/62	1	195.	195.	195.	195.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/15/62-11/15/62	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0131

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00				1	0	0.00						
		Other-Lo Lim.	6.5	1	0	0.00				1	0	0.00						
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						
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: WHIS0132

NPS Station ID: WHIS0132 | LAT/LON: 40.650448/-122.585781 | Agency: 11NPSWRD | Date Created: 02/07/98
Location: OAK BOTTOM MARINA | FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /RESERV/TYPA/AMBNT | STORET Station ID(s): WHIS_WQCB_29
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 | Depth of Water: 0 | Aquifer:
Major Basin: CALIFORNIA | Elevation: 0 | Water Body Id:
Minor Basin: SACRAMENTO RIVER | ECO Region:
RF1 Index: 18020112 | RF1 Mile Point: 0.000 | Distance from RF1: 0.80 | On/Off RF1:
RF3 Index: 18010211001600.95 | RF3 Mile Point: 5.98 | Distance from RF3: 0.04 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE WHISKEYTOWN-CA SHASTA COUNTY 7.5 MINUTE (TOPOGRAPHIC) QUADRANGLE. THE SITE IS DESCRIBED BY THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD (WQCB) AS "OAK BOTTOM MARINA." THE SITE IS LOCATED AT WHISKEYTOWN LAKE INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA ARE FROM FOUR BACTERIOLOGICAL SURVEYS PERFORMED BY THE WQCB IN 1986; 1987; 1990 AND 1991. FOR MORE INFORMATION ON THE BACTERIOLOGICAL SURVEYS CONTACT THE WQCB; 415 KNOLLCREST DR. SUITE 100; REDDING CA 96002 (TEL 916-224-4845). FOR MORE INFORMATION ON THE PARK'S WHISKEYTOWN UNIT CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; P.O. BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX970-225-9965).

Parameter Inventory for Station: WHIS0132

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/07/87-07/31/90	4	43.	38.	43.	23.	100.	10.	**	**	**	**
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	07/07/87-07/31/90	4	1.633	1.566	1.633	1.362	0.018	0.136	**	**	**	**
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			36.773								
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/07/87-07/31/90	4 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/07/87-07/31/90	4 ##	0.176	0.176	0.176	0.176	0.	0.	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			1.5								

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

EPA Water Quality Criteria Analysis for Station: WHIS0132

				Total	Exceed	Prop.	----------6/01-11/09----------			----------11/10-2/20----------			----------2/21-5/31----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	4	0	0.00	4	0	0.00									
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	Other-Hi Lim.	200.	4	0	0.00	4	0	0.00									

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

Station Inventory for Station: WHIS0133

NPS Station ID: WHIS0133 | LAT/LON: 40.651088/-122.582643 | Agency: 11NPSWRD | Date Created: 02/07/98
Location: ROPE SWING AREA | FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /RESERV/TYPA/AMBNT | STORET Station ID(s): WHIS_WQCB_28
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 | Depth of Water: 0 | Aquifer:
Major Basin: CALIFORNIA | Elevation: 0 | Water Body Id:
Minor Basin: SACRAMENTO RIVER | ECO Region:
RF1 Index: 18020112 | RF1 Mile Point: 0.000 | Distance from RF1: 0.80 | On/Off RF1:
RF3 Index: 18010211001600.95 | RF3 Mile Point: 5.98 | Distance from RF3: 0.04 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE WHISKEYTOWN-CA SHASTA COUNTY 7.5 MINUTE (TOPOGRAPHIC) QUADRANGLE. THE SITE IS DESCRIBED BY THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD (WQCB) AS "ROPE SWING AREA." THE SITE IS LOCATED IN A COVE JUST EAST OF THE OAK BOTTOM MARINA AT WHISKEYTOWN LAKE INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA ARE FROM FOUR BACTERIOLOGICAL SURVEYS PERFORMED BY THE WQCB IN 1986; 1987; 1990 AND 1991. FOR MORE INFORMATION ON THE BACTERIOLOGICAL SURVEYS CONTACT THE WQCB; 415 KNOLLCREST DR. SUITE 100; REDDING CA 96002 (TEL 916-224-4845). FOR MORE INFORMATION ON THE PARK'S WHISKEYTOWN UNIT CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; P.O. BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX970-225-9965).

Parameter Inventory for Station: WHIS0133

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/07/87-07/17/91	6	6.5	8.5	21.	4.	43.5	6.595	**	**	**	**
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	07/07/87-07/17/91	6	0.778	0.839	1.322	0.602	0.086	0.293	**	**	**	**
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			6.91								
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/07/87-07/17/91	6 ##	1.5	1.917	4.	1.5	1.042	1.021	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/07/87-07/17/91	6 ##	0.176	0.247	0.602	0.176	0.03	0.174	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			1.766								

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

EPA Water Quality Criteria Analysis for Station: WHIS0133

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	6	0	0.00	6	0	0.00									
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	Other-Hi Lim.	200.	6	0	0.00	6	0	0.00									

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

Station Inventory for Station: WHIS0134

NPS Station ID: WHIS0134 | LAT/LON: 40.651088/-122.582643 | Agency: 11NPSWRD | Date Created: 02/20/99
Location: HIGHWAY CULVERT NEAR OAK BOTTOM | FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /RESERV/TYPA/AMBNT | STORET Station ID(s): WHIS_WQCB2_11
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 | Depth of Water: 0 | Aquifer:
Major Basin: CALIFORNIA | Elevation: 0 | Water Body Id:
Minor Basin: SACRAMENTO RIVER | ECO Region:
RF1 Index: 18020112 | RF1 Mile Point: 0.000 | Distance from RF1: 0.80 | On/Off RF1:
RF3 Index: 18010211001600.95 | RF3 Mile Point: 5.98 | Distance from RF3: 0.04 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE WHISKEYTOWN CA-SHASTA COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS DESCRIBED AS "HIGHWAY CULVERT NEAR OAK BOTTOM" AND IS LOCATED ON WHISKEYTOWN LAKE INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA ARE FROM A MEMORANDUM IN THE ARCHIVE FILES LOCATED AT THE PARK AND ARE BELIEVED TO BE FROM THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD. FOR MORE INFORMATION ON THE WHISKEYTOWN UNIT OF THE PARK CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; P.O. BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0134

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/04/77-07/04/77	2	96.5	96.5	150.	43.	5724.5	75.66	**	**	**	**
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	07/04/77-07/04/77	2	1.905	1.905	2.176	1.633	0.147	0.384	**	**	**	**
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			80.312								
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/04/77-07/04/77	2 ##	5.25	5.25	9.	1.5	28.125	5.303	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/04/77-07/04/77	2 ##	0.565	0.565	0.954	0.176	0.303	0.55	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			3.674								

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

EPA Water Quality Criteria Analysis for Station: WHIS0134

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	2	0	0.00	2	0	0.00									
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	Other-Hi Lim.	200.	2	0	0.00	2	0	0.00									

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

Station Inventory for Station: WHIS0135

NPS Station ID: WHIS0135 LAT/LON: 40.651115/-122.645004 Agency: 11NPSWRD Date Created: 04/10/99
Location: MILL CK; 1/2 MI SOUTH OF POWERLINE OVERCROSSING FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): WHIS_NPS_18
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 Depth of Water: 0 Aquifer:
Major Basin: CALIFORNIA Elevation: 0 Water Body Id:
Minor Basin: SACRAMENTO RIVER ECO Region:
RF1 Index: 18020112 RF1 Mile Point: 0.000 Distance from RF1: 0.80 On/Off RF1:
RF3 Index: 18010211001600.95 RF3 Mile Point: 5.98 Distance from RF3: 0.04 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE FRENCH GULCH CA 7.5' SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE WAS DESCRIBED BY THE NPS AS "MILL CREEK; 1/2 MILE SOUTH OF POWERLINE OVERCROSSING" INSIDE OF THE WHISKEYTOWN-SHASTA- TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA WERE FROM MISCELLANEOUS PAPERS IN A BROWN FOLDER LABELED "WATER QUALITY." THE FOLDER WAS FROM THE PARK. THE LOCATION OF THE STATION WAS ESTIMATED USING SITE DESCRIPTIONS. LATITUDE AND LONGITUDE VALUES WERE OBTAINED BY DIGITIZING A POINT MARKED ON A QUADRANGLE. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT THE WHISKEYTOWN-SHASTA- TRINITY NATIONAL RECREATION AREA; PO BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NPS WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0135

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/31/84-08/31/84	1	16.	16.	16.	16.	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/31/84-08/31/84	1	18.	18.	18.	18.	0.	0.	**	**	**	**
00032	CLOUD COVER (PERCENT)	08/31/84-08/31/84	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00035	WIND VELOCITY (MILES PER HOUR)	08/31/84-08/31/84	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00045	PRECIPITATION, TOTAL (INCHES PER DAY)	08/31/84-08/31/84	1	0.29	0.29	0.29	0.29	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/31/84-08/31/84	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/31/84-08/31/84	1	120.	120.	120.	120.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	08/31/84-08/31/84	1	9.2	9.2	9.2	9.2	0.	0.	**	**	**	**
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	08/31/84-08/31/84	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0135

				Total	Exceed	Prop.	6/01-11/09			11/10-2/20			2/21-5/31			n/a		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00	1	0	0.00									
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: WHIS0136

NPS Station ID: WHIS0136 | LAT/LON: 40.652477/-122.571338 | Agency: 11NPSWRD | Date Created: 05/23/98
Location: GANIM MINE | FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM/MINE | STORET Station ID(s): WHIS_NPS_GM
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 | Depth of Water: 0 | Aquifer:
Major Basin: CALIFORNIA | Elevation: 0 | Water Body Id:
Minor Basin: SACRAMENTO RIVER | ECO Region:
RF1 Index: 18020112 | RF1 Mile Point: 0.000 | Distance from RF1: 0.80 | On/Off RF1:
RF3 Index: 18010211001600.95 | RF3 Mile Point: 5.98 | Distance from RF3: 0.04 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE WHISKEYTOWN CA-SHASTA COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS LOCATED AT THE GANIM MINE INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA ARE FROM AN ANALYTICAL REPORT IN THE WHISKEYTOWN UNIT PARK FILES (N3617-WATER TESTS FOR MINES). FOR MORE INFORMATION ON THE WHISKEYTOWN UNIT OF THE PARK CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA: P.O. BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). THE DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0136

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00340	COD, .25N K2CR2O7 MG/L	07/25/90-07/25/90	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/25/90-07/25/90	1	7.33	7.33	7.33	7.33	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/25/90-07/25/90	1	7.33	7.33	7.33	7.33	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/25/90-07/25/90	1	0.047	0.047	0.047	0.047	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	07/25/90-07/25/90	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	07/25/90-07/25/90	1	11.	11.	11.	11.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	07/25/90-07/25/90	1	161.	161.	161.	161.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0136

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1	0	0.00	1	0	0.00									
		Drinking Water	5.	1	0	0.00	1	0	0.00									
01042	COPPER, TOTAL	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01092	ZINC, TOTAL	Fresh Acute	120.	1	1	1.00	1	1	1.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: WHIS0137

NPS Station ID: WHIS0137 | LAT/LON: 40.652726/-122.587448 | Agency: 11NPSWRD | Date Created: 05/23/98
Location: OAK BOTTOM SPRAY TRIBUTARY | FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): WHIS_NPS_05
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 | Depth of Water: 0 | Aquifer:
Major Basin: CALIFORNIA | Elevation: 0 | Water Body Id:
Minor Basin: SACRAMENTO RIVER | ECO Region:
RF1 Index: 18020112 | RF1 Mile Point: 0.000 | Distance from RF1: 0.80 | On/Off RF1:
RF3 Index: 18010211001600.95 | RF3 Mile Point: 5.98 | Distance from RF3: 0.04 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE WHISKEYTOWN CA-SHASTA COUNTY 7.5' SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE WAS DESCRIBED BY THE NPS AS "OAK BOTTOM SPRAY TRIBUTARY" AND WAS LOCATED ON AN INTERMITTENT STREAM UNDER THE BRIDGE FOR STATE ROUTE 299 NORTH OF THE OAK BOTTOM AREA INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT.) THE DATA WERE COLLECTED FROM APPROXIMATELY 1973 UNTIL 1980 BY PARK PERSONNEL FOR FOURTEEN TOTAL LOCATIONS. THE DATA FOR EACH LOCATION WERE IN SEPARATELY BOUND FILES. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; PO BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NPS WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0137

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/02/73-01/23/80	31	11.7	12.684	21.1	7.	13.157	3.627	8.2	10.6	15.	19.6
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	03/02/73-01/23/80	30	14.8	15.433	31.	5.	42.424	6.513	7.85	10.975	18.725	27.42
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/01/73-01/23/80	21	0.3	0.473	3.	0.007	0.425	0.652	0.034	0.14	0.6	1.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	03/02/73-01/23/80	33	2.	5.276	35.	0.	51.422	7.171	0.	0.	9.	12.8
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-01/23/80	25	98.	106.08	180.	65.	883.827	29.729	70.	86.	126.	150.
00300	OXYGEN, DISSOLVED MG/L	03/02/73-01/23/80	29	10.	9.366	12.2	4.	6.162	2.482	4.	8.35	11.05	11.9
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/02/73-01/23/80	33	0.25	0.912	7.5	0.	2.449	1.565	0.02	0.04	0.85	3.26
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/05/74-04/14/76	9	2.2	2.177	4.8	0.25	1.591	1.261	0.25	1.36	2.7	4.8
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	07/03/73-04/14/76	17	0.06	0.092	0.5	0.01	0.015	0.121	0.018	0.02	0.105	0.276
00900	HARDNESS, TOTAL (MG/L AS CACO3)	03/02/73-01/23/80	33	40.	45.455	80.	20.	177.131	13.309	30.	37.5	50.	68.

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

EPA Water Quality Criteria Analysis for Station: WHIS0137

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	33	0	0.00	4	0	0.00	12	0	0.00	17	0	0.00			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	29	3	0.10	3	2	0.67	10	0	0.00	16	1	0.06			

& - 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: WHIS0137

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	33	0	0.00	4	0	0.00	12	0	0.00	17	0	0.00			

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

Seasonal Analysis for Season #1: 6/01 to 11/09 - Station WHIS0137

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/02/73-01/23/80	3	20.	19.067	21.1	16.1	6.903	2.627	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	03/02/73-01/23/80	3	28.9	27.2	31.	21.7	23.79	4.877	**	**	**	**
00070	TURBIDITY, (JACKSON CANDLE UNITS)	03/02/73-01/23/80	4	## 2.	3.5	10.	0.	22.333	4.726	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-01/23/80	3	150.	160.	180.	150.	300.	17.321	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	03/02/73-01/23/80	3	4.	4.033	4.1	4.	0.003	0.058	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/02/73-01/23/80	4	0.12	1.943	7.5	0.03	13.733	3.706	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	03/02/73-01/23/80	4	70.	71.25	80.	65.	39.583	6.292	**	**	**	**

** - Less than 9 observations ## - Computed 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: 11/10 to 2/20 - Station WHIS0137

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/02/73-01/23/80	12	11.05	10.792	12.	9.	1.026	1.013	9.	10.15	11.7	11.91
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	03/02/73-01/23/80	11	12.	12.545	20.	7.8	12.813	3.579	8.02	10.	15.6	19.22
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/01/73-01/23/80	11	0.5	0.686	3.	0.05	0.671	0.819	0.08	0.2	0.8	2.6
00070	TURBIDITY, (JACKSON CANDLE UNITS)	03/02/73-01/23/80	12	6.5	9.583	35.	1.	92.629	9.624	1.3	2.5	13.	30.2
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-01/23/80	10	96.5	92.7	128.	65.	300.678	17.34	65.8	79.75	100.	125.2
00300	OXYGEN, DISSOLVED MG/L	03/02/73-01/23/80	10	10.65	10.78	12.2	9.4	0.853	0.924	9.45	10.05	11.525	12.17
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/02/73-01/23/80	12	1.2	1.579	3.4	0.2	1.675	1.294	0.2	0.338	3.1	3.37
00900	HARDNESS, TOTAL (MG/L AS CACO3)	03/02/73-01/23/80	12	40.	38.333	50.	20.	56.061	7.487	23.	36.25	40.	48.5

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

Seasonal Analysis for Season #3: 2/21 to 5/31 - Station WHIS0137

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/02/73-01/23/80	16	13.5	12.906	20.6	7.	13.575	3.684	7.7	10.25	15.	18.78
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	03/02/73-01/23/80	16	15.6	15.213	27.8	5.	36.448	6.037	5.7	12.025	17.975	25.14
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/01/73-01/23/80	10	0.2	0.239	1.	0.007	0.082	0.287	0.009	0.06	0.3	0.93
00070	TURBIDITY, (JACKSON CANDLE UNITS)	03/02/73-01/23/80	17	2.	2.653	11.	0.	12.96	3.6	0.	0.	4.5	10.2
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-01/23/80	12	98.5	103.75	150.	70.	666.205	25.811	70.	86.	123.	147.
00300	OXYGEN, DISSOLVED MG/L	03/02/73-01/23/80	16	9.95	9.481	12.	4.	3.956	1.989	6.45	8.175	10.95	11.72
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/02/73-01/23/80	17	0.2	0.199	0.6	0.	0.033	0.182	0.016	0.025	0.3	0.52
00900	HARDNESS, TOTAL (MG/L AS CACO3)	03/02/73-01/23/80	17	45.	44.412	60.	25.	102.757	10.137	29.	35.	50.	60.

** - Less than 9 observations ## - Computed 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: WHIS0138

NPS Station ID: WHIS0138 LAT/LON: 40.653198/-122.624670 Agency: 11NPSWRD Date Created: 05/23/98
Location: CLEAR CREEK AT BRIDGE TO POWERHOUSE FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): WHIS_UCLIM_CC
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 Depth of Water: 0 Aquifer:
Major Basin: CALIFORNIA Elevation: 0 Water Body Id:
Minor Basin: SACRAMENTO RIVER ECO Region:
RF1 Index: 18020112 RF1 Mile Point: 0.000 Distance from RF1: 0.80 On/Off RF1:
RF3 Index: 18010211001600.95 RF3 Mile Point: 5.98 Distance from RF3: 0.04 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE WHISKEYTOWN CA-SHASTA COUNTY 7.5' SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS LOCATED ON CLEAR CREEK UNDER THE BRIDGE OF THE LIGHT-DUTY ROAD THAT LEADS TO THE CARR POWERHOUSE INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA ARE FROM A 1994 REPORT TO THE BUREAU OF RECLAMATION BY THE UNIVERSITY OF CALIFORNIA AT DAVIS TITLED "A LIMNOLOGICAL INVESTIGATION OF WHISKEYTOWN RESERVOIR: POTENTIAL IMPACTS OF TEMPERATURE CONTROL CURTAINS." FOR MORE INFORMATION ON THE WHISKEYTOWN UNIT OF THE PARK CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA: PO BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION: 1201 OAK RIDGE DR. SUITE 250; FT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0138

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	04/21/93-08/16/94	10	0.01	0.008	0.02	0.	0.	0.006	0.	0.004	0.01	0.019
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/21/93-08/16/94	9	0.013	0.015	0.034	0.005	0.	0.01	0.005	0.008	0.023	0.034
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/21/93-08/16/94	9	0.004	0.005	0.019	0.001	0.	0.006	0.001	0.002	0.006	0.019
32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	04/21/93-08/16/94	9	0.4	0.774	4.2	0.07	1.672	1.293	0.07	0.25	0.5	4.2
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	04/21/93-08/16/94	9	0.003	0.002	0.003	0.001	0.	0.001	0.001	0.001	0.003	0.003

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

EPA Water Quality Criteria Analysis for Station: WHIS0138

				Total	Exceed	Prop.	----------6/01-11/09----------			----------11/10-2/20----------			----------2/21-5/31----------			--------------n/a--------------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	10	0	0.00	9	0	0.00				1	0	0.00			

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

Station Inventory for Station: WHIS0139

NPS Station ID: WHIS0139
LAT/LON: 40.653365/-122.624615
Agency: 11NPSWRD
Date Created: 04/10/99
Location: POWER HOUSE BRIDGE
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /RESERV/TYPA/AMBNT
STORET Station ID(s): WHIS_NPS_16
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112
Depth of Water: 0
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112
RF1 Mile Point: 0.000
Distance from RF1: 0.80
On/Off RF1:
RF3 Index: 18010211001600.95
RF3 Mile Point: 5.98
Distance from RF3: 0.04
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE FRENCH GULCH CA 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE WAS DESCRIBED BY THE NPS AS "POWER HOUSE BRIDGE" INSIDE OF THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA WERE FROM MISCELLANEOUS PAPERS IN A BROWN FOLDER LABELED "WATER QUALITY." THE FOLDER WAS FROM THE PARK. THE LOCATION OF THE STATION WAS ESTIMATED USING SITE DESCRIPTIONS. LATITUDE AND LONGITUDE VALUES WERE OBTAINED BY DIGITIZING A POINT MARKED ON A QUADRANGLE. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; PO BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NPS WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0139

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00070	TURBIDITY, (JACKSON CANDLE UNITS)	06/05/75-06/05/75	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	06/05/75-06/05/75	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	06/05/75-06/05/75	1	1.64	1.64	1.64	1.64	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	06/05/75-06/05/75	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/05/75-06/05/75	1	30.	30.	30.	30.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	06/05/75-06/05/75	1	7.	7.	7.	7.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	06/05/75-06/05/75	1	0.06	0.06	0.06	0.06	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	06/05/75-06/05/75	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	06/05/75-06/05/75	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0139

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	1	0	0.00	1	0	0.00									
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00	1	0	0.00									

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

EPA Water Quality Criteria Analysis for Station: WHIS0139

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
01042 COPPER, TOTAL	Fresh Acute	18.	1	0	0.00	1	0	0.00									
	Drinking Water	1300.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: WHIS0140

NPS Station ID: WHIS0140
LAT/LON: 40.653670/-122.555699
Agency: 11NPSWRD
Date Created: 04/10/99
Location: WHISKEY CREEK
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): WHIS_NPS_15
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112
Depth of Water: 0
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112
RF1 Mile Point: 0.000
Distance from RF1: 0.80
On/Off RF1:
RF3 Index: 18010211001600.95
RF3 Mile Point: 5.98
Distance from RF3: 0.04
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE WHISKEYTOWN CA-SHASTA COUNTY 7.5' SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE WAS DESCRIBED BY THE NPS AS "WHISKEY CREEK" INSIDE OF THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA WERE FROM MISCELLANEOUS PAPERS IN A BROWN FOLDER LABELED "WATER QUALITY." THE FOLDER WAS FROM THE PARK. THE LOCATION OF THE STATION WAS ESTIMATED USING SITE DESCRIPTIONS. LATITUDE AND LONGITUDE VALUES WERE OBTAINED BY DIGITIZING A POINT MARKED ON A QUADRANGLE. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; PO BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NPS WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0140

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/11/80-07/11/80	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/11/80-07/11/80	1	23.3	23.3	23.3	23.3	0.	0.	**	**	**	**
00032	CLOUD COVER (PERCENT)	07/11/80-07/11/80	1	50.	50.	50.	50.	0.	0.	**	**	**	**
00035	WIND VELOCITY (MILES PER HOUR)	07/11/80-07/11/80	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00045	PRECIPITATION, TOTAL (INCHES PER DAY)	07/11/80-07/11/80	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/11/80-07/11/80	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/11/80-07/11/80	1	120.	120.	120.	120.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/11/80-07/11/80	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/11/80-07/11/80	1	1.6	1.6	1.6	1.6	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/11/80-07/11/80	1	40.	40.	40.	40.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0140

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	1	0	0.00	1	0	0.00									
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00	1	0	0.00									

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

EPA Water Quality Criteria Analysis for Station: WHIS0140

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: WHIS0141

NPS Station ID: WHIS0141
LAT/LON: 40.654170/-122.499448
Agency: 11TOX09
Date Created: 10/20/84
Location: SPRING CK BL SLICKROCK CK NR IRON MT MINE
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM/MINE
STORET Station ID(s): IRONMT-74 /SPRING-74
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 18020112
Depth of Water: 999
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112003
RF1 Mile Point: 3.990
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 18020112000304.14
RF3 Mile Point: 4.14
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: WHIS0141

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/23/84-05/23/84	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00058	FLOW, RATE GALLONS/MIN	05/23/84-05/23/84	1	5.8	5.8	5.8	5.8	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/23/84-05/23/84	1	1560.	1560.	1560.	1560.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	05/23/84-05/23/84	1	5.8	5.8	5.8	5.8	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/23/84-05/23/84	1	5.8	5.8	5.8	5.8	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/23/84-05/23/84	1	1.585	1.585	1.585	1.585	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/23/84-05/23/84	1	36.	36.	36.	36.	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	05/23/84-05/23/84	1	24600.	24600.	24600.	24600.	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	05/23/84-05/23/84	1	4940.	4940.	4940.	4940.	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	05/23/84-05/23/84	1	1240.	1240.	1240.	1240.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	05/23/84-05/23/84	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	05/23/84-05/23/84	1	960.	960.	960.	960.	0.	0.	**	**	**	**
00956	SILICA, TOTAL (MG/L AS SI02)	05/23/84-05/23/84	1	6.7	6.7	6.7	6.7	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	05/23/84-05/23/84	1	42.	42.	42.	42.	0.	0.	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	05/23/84-05/23/84	1	12.	12.	12.	12.	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	05/23/84-05/23/84	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	05/23/84-05/23/84	1	200.	200.	200.	200.	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	05/23/84-05/23/84	1	12.	12.	12.	12.	0.	0.	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	05/23/84-05/23/84	1	31.	31.	31.	31.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	05/23/84-05/23/84	1	1770.	1770.	1770.	1770.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	05/23/84-05/23/84	1	179000.	179000.	179000.	179000.	0.	0.	**	**	**	**
01047	IRON, FERROUS (UG/L AS FE)	05/23/84-05/23/84	1	21.	21.	21.	21.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	05/23/84-05/23/84	1	13.	13.	13.	13.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	05/23/84-05/23/84	1	879.	879.	879.	879.	0.	0.	**	**	**	**
01059	THALLIUM, TOTAL (UG/L AS TL)	05/23/84-05/23/84	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	05/23/84-05/23/84	1 ##	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	05/23/84-05/23/84	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01087	VANADIUM, TOTAL (UG/L AS V)	05/23/84-05/23/84	1	31.	31.	31.	31.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	05/23/84-05/23/84	1	19700.	19700.	19700.	19700.	0.	0.	**	**	**	**
01097	ANTIMONY, TOTAL (UG/L AS SB)	05/23/84-05/23/84	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01102	TIN, TOTAL (UG/L AS SN)	05/23/84-05/23/84	1 ##	100.	100.	100.	100.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	05/23/84-05/23/84	1	36700.	36700.	36700.	36700.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	05/23/84-05/23/84	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01171	PLATINUM,WHOLE WATER SAMPLE,UG/L	05/23/84-05/23/84	1	14.	14.	14.	14.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/23/84-05/23/84	1	1260.	1260.	1260.	1260.	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	05/23/84-05/23/84	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
71910	GOLD, TOTAL (UG/L AS AU)	05/23/84-05/23/84	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
82032	CALCIUM - TOTAL UG/L (AS CA)	05/23/84-05/23/84	1	13800.	13800.	13800.	13800.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0141

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	1	1.00							1	1	1.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00							1	0	0.00			
		Drinking Water	250.	1	0	0.00							1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	1	1.00							1	1	1.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
01007	BARIUM, TOTAL	Drinking Water	2000.	1	0	0.00							1	0	0.00			
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	1	0	0.00							1	0	0.00			
		Drinking Water	4.	1	0	0.00							1	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1	1	1.00							1	1	1.00			
		Drinking Water	5.	1	1	1.00							1	1	1.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00							1	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	1	1	1.00							1	1	1.00			
		Drinking Water	1300.	1	1	1.00							1	1	1.00			
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00							1	0	0.00			
		Drinking Water	15.	1	0	0.00							1	0	0.00			
01059	THALLIUM, TOTAL	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	2.	0 &	0	0.00												
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	1	1	1.00							1	1	1.00			
		Drinking Water	5000.	1	1	1.00							1	1	1.00			
01097	ANTIMONY, TOTAL	Fresh Acute	88.	1	0	0.00							1	0	0.00			
		Drinking Water	6.	0 &	0	0.00												
01147	SELENIUM, TOTAL	Fresh Acute	20.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00							1	0	0.00			
		Drinking Water	2.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: WHIS0142

NPS Station ID: WHIS0142
LAT/LON: 40.655004/-122.501115
Agency: 11TOX09
Date Created: 10/20/84
Location: SLICKROCK CK AT SPRING CK NR IRON MT MINE
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM/MINE
STORET Station ID(s): IRONMT-66 /SLICKROCK-66
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 18020112
Depth of Water: 999
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112003
RF1 Mile Point: 3.900
Distance from RF1: 11.50
On/Off RF1: OFF
RF3 Index: 18020112011800.00
RF3 Mile Point: 2.38
Distance from RF3: 0.05
On/Off RF3:
Description:

Parameter Inventory for Station: WHIS0142

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/29/83-06/13/84	4	18.5	17.375	19.5	13.	8.896	2.983	**	**	**	**
00058	FLOW, RATE GALLONS/MIN	09/29/83-06/13/84	4	2.725	78.875	308.	2.05	23332.689	152.75	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	05/23/84-06/13/84	2	2.5	2.5	3.	2.	0.5	0.707	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/29/83-06/13/84	4	2260.	2267.5	2600.	1950.	115558.333	339.939	**	**	**	**
00400	PH (STANDARD UNITS)	09/29/83-05/30/84	2	2.95	2.95	3.	2.9	0.005	0.071	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/29/83-05/30/84	2	2.947	2.947	3.	2.9	0.005	0.071	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/29/83-05/30/84	2	1129.463	1129.463	1258.925	1000.	33521.184	183.088	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/23/84-06/13/84	3	76.	80.	93.	71.	133.	11.533	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	05/23/84-06/13/84	3	89600.	86750.	92600.	78050.	59017500.	7682.285	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	05/23/84-06/13/84	3	5430.	5288.333	5470.	4965.	78808.333	280.728	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	05/23/84-06/13/84	3	1000.	1782.667	3630.	718.	2579361.333	1606.039	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	05/23/84-06/13/84	3	3.	2.667	4.	1.	2.333	1.528	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	05/23/84-06/13/84	3	1640.	1530.	1650.	1300.	39700.	199.249	**	**	**	**
00956	SILICA, TOTAL (MG/L AS SI02)	05/23/84-06/13/84	3	3.6	3.467	3.6	3.2	0.053	0.231	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	09/29/83-06/13/84	4 ##	5.	11.	29.	5.	144.	12.	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	09/29/83-06/13/84	4	8.5	18.25	50.	6.	449.583	21.203	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	09/29/83-06/13/84	4	2.	1.875	2.5	1.	0.396	0.629	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	09/29/83-09/29/83	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	09/29/83-06/13/84	4	90.	115.75	210.	73.	4014.917	63.363	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	09/29/83-06/13/84	4	18.	17.25	22.	11.	20.917	4.573	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	09/29/83-06/13/84	4	123.5	140.5	217.	98.	2745.667	52.399	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	05/23/84-06/13/84	3	10900.	11055.	12800.	9465.	2798575.	1672.894	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	05/23/84-06/13/84	3	158000.	161166.667	174000.	151500.	134083333.333	11579.436	**	**	**	**
01047	IRON, FERROUS (UG/L AS FE)	05/23/84-06/13/84	3	21.	22.	29.	16.	43.	6.557	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	09/29/83-06/13/84	4	18.	49.5	151.	11.	4592.333	67.767	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	09/29/83-06/13/84	4	3442.5	3541.25	4440.	2840.	441172.917	664.208	**	**	**	**
01059	THALLIUM, TOTAL (UG/L AS TL)	09/29/83-06/13/84	4 ##	5.	4.	5.	1.	4.	2.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	09/29/83-06/13/84	3	42.	66.	132.	24.	3348.	57.862	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	09/29/83-06/13/84	4 ##	0.5	1.625	5.	0.5	5.063	2.25	**	**	**	**
01087	VANADIUM, TOTAL (UG/L AS V)	09/29/83-06/13/84	4	16.5	36.25	100.	12.	1810.917	42.555	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	09/29/83-06/13/84	4	12625.	13550.	18500.	10450.	12091666.667	3477.307	**	**	**	**
01097	ANTIMONY, TOTAL (UG/L AS SB)	09/29/83-06/13/84	4 ##	10.	8.25	10.	3.	12.25	3.5	**	**	**	**
01102	TIN, TOTAL (UG/L AS SN)	09/29/83-06/13/84	4 ##	121.5	135.75	200.	100.	2245.583	47.388	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	05/23/84-06/13/84	3	125000.	120500.	127000.	109500.	91750000.	9578.622	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	09/29/83-05/30/84	3 ##	1.	1.333	2.	1.	0.333	0.577	**	**	**	**
01171	PLATINUM,WHOLE WATER SAMPLE,UG/L	05/23/84-06/13/84	3	14.	13.833	14.	13.5	0.083	0.289	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/23/84-06/13/84	3	2100.	2171.667	2320.	2095.	16508.333	128.485	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	09/29/83-06/13/84	4 ##	0.05	0.063	0.1	0.05	0.001	0.025	**	**	**	**

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Parameter Inventory for Station: WHIS0142

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
71910	GOLD, TOTAL (UG/L AS AU)	05/23/84-06/13/84	3 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
82032	CALCIUM - TOTAL UG/L (AS CA)	05/23/84-06/13/84	3	30650.	29316.667	31000.	26300.	6855833.333	2618.365	**	**	**	**

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EPA Water Quality Criteria Analysis for Station: WHIS0142

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	2	0	0.00	1	0	0.00				1	0	0.00			
		Other-Lo Lim.	6.5	2	2	1.00	1	1	1.00				1	1	1.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	3	0	0.00	1	0	0.00				2	0	0.00			
		Drinking Water	250.	3	0	0.00	1	0	0.00				2	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	3	3	1.00	1	1	1.00				2	2	1.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	4	0	0.00	2	0	0.00				2	0	0.00			
		Drinking Water	50.	4	0	0.00	2	0	0.00				2	0	0.00			
01007	BARIUM, TOTAL	Drinking Water	2000.	4	0	0.00	2	0	0.00				2	0	0.00			
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	4	0	0.00	2	0	0.00				2	0	0.00			
		Drinking Water	4.	4	0	0.00	2	0	0.00				2	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	4	4	1.00	2	2	1.00				2	2	1.00			
		Drinking Water	5.	4	4	1.00	2	2	1.00				2	2	1.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	4	0	0.00	2	0	0.00				2	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	3	3	1.00	1	1	1.00				2	2	1.00			
		Drinking Water	1300.	3	3	1.00	1	1	1.00				2	2	1.00			
01051	LEAD, TOTAL	Fresh Acute	82.	4	1	0.25	2	1	0.50				2	0	0.00			
		Drinking Water	15.	4	3	0.75	2	1	0.50				2	2	1.00			
01059	THALLIUM, TOTAL	Fresh Acute	1400.	4	0	0.00	2	0	0.00				2	0	0.00			
		Drinking Water	2.	1 &	0	0.00	1	0	0.00									
01067	NICKEL, TOTAL	Fresh Acute	1400.	3	0	0.00	2	0	0.00				1	0	0.00			
		Drinking Water	100.	3	1	0.33	2	1	0.50				1	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	3 &	0	0.00	1	0	0.00				2	0	0.00			
		Drinking Water	100.	4	0	0.00	2	0	0.00				2	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	4	4	1.00	2	2	1.00				2	2	1.00			
		Drinking Water	5000.	4	4	1.00	2	2	1.00				2	2	1.00			
01097	ANTIMONY, TOTAL	Fresh Acute	88.	4	0	0.00	2	0	0.00				2	0	0.00			
		Drinking Water	6.	1 &	0	0.00	1	0	0.00									
01147	SELENIUM, TOTAL	Fresh Acute	20.	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			
71900	MERCURY, TOTAL	Fresh Acute	2.4	4	0	0.00	2	0	0.00				2	0	0.00			
		Drinking Water	2.	4	0	0.00	2	0	0.00				2	0	0.00			

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

Station Inventory for Station: WHIS0143

NPS Station ID: WHIS0143 | LAT/LON: 40.656393/-122.558365 | Agency: 11NPSWRD | Date Created: 05/23/98
Location: WHISKEY CREEK | FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): WHIS_NPS_12
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 | Depth of Water: 0 | Aquifer:
Major Basin: CALIFORNIA | Elevation: 0 | Water Body Id:
Minor Basin: SACRAMENTO RIVER | ECO Region:
RF1 Index: 18020112 | RF1 Mile Point: 0.000 | Distance from RF1: 0.80 | On/Off RF1:
RF3 Index: 18010211001600.95 | RF3 Mile Point: 5.98 | Distance from RF3: 0.04 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE WHISKEYTOWN CA-SHASTA COUNTY 7.5' SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE WAS DESCRIBED BY THE NPS AS "WHISKEY CREEK" AND WAS LOCATED NEXT TO A LIGHT-DUTY ROAD JUST NORTH OF THE WHISKEY CREEK COVE OF WHISKEYTOWN LAKE INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA WERE COLLECTED FROM APPROXIMATELY 1973 UNTIL 1980 BY PARK PERSONNEL FOR FOURTEEN TOTAL LOCATIONS. THE DATA FOR EACH LOCATION WERE IN SEPARATELY BOUND FILES. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; PO BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NPS WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0143

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/20/76-01/17/80	43	11.	11.707	19.	3.	17.946	4.236	6.	8.9	15.	17.6
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	01/20/76-01/17/80	43	17.	18.093	31.	4.	51.315	7.163	9.16	13.3	22.	29.56
00061	FLOW, STREAM, INSTANTANEOUS CFS	11/15/78-11/15/78	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/20/76-01/17/80	44	1.	2.552	32.	0.	28.592	5.347	0.	0.	2.	8.5
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	01/20/76-01/17/80	44	136.5	131.295	185.	58.	1031.236	32.113	85.	108.25	157.5	171.5
00300	OXYGEN, DISSOLVED MG/L	01/20/76-01/17/80	44	9.75	10.12	14.8	7.6	2.142	1.464	8.05	9.175	11.075	12.
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	01/20/76-01/17/80	44	0.3	0.48	3.6	0.1	0.339	0.582	0.2	0.25	0.4	1.05
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	01/20/76-08/14/76	8	3.2	3.462	7.1	2.3	2.414	1.554	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	01/20/76-08/14/76	8	0.1	0.096	0.18	0.02	0.003	0.054	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/20/76-01/17/80	44	60.	60.114	100.	20.	276.15	16.618	37.5	50.	70.	80.

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

EPA Water Quality Criteria Analysis for Station: WHIS0143

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	44	0	0.00	20	0	0.00	11	0	0.00	13	0	0.00			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	44	0	0.00	20	0	0.00	11	0	0.00	13	0	0.00			

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

EPA Water Quality Criteria Analysis for Station: WHIS0143

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	44	0	0.00	20	0	0.00	11	0	0.00	13	0	0.00			

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

Annual Analysis for 1976 - Station WHIS0143

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/20/76-01/17/80	11	11.	11.727	19.	6.	23.418	4.839	6.	7.	15.	19.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	01/20/76-01/17/80	12	18.5	19.417	31.	4.	81.538	9.03	5.5	11.5	28.75	31.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/20/76-01/17/80	12	1.	1.942	8.	0.	6.35	2.52	0.	0.	3.5	7.1
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	01/20/76-01/17/80	12	130.5	133.083	160.	100.	284.992	16.882	106.	125.	142.25	160.
00300	OXYGEN, DISSOLVED MG/L	01/20/76-01/17/80	12	9.6	10.083	12.3	8.3	1.962	1.401	8.42	8.825	11.55	12.21
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	01/20/76-01/17/80	12	0.25	0.275	0.5	0.2	0.007	0.081	0.2	0.213	0.3	0.44
00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/20/76-01/17/80	12	60.	65.417	85.	55.	83.902	9.16	56.5	60.	70.	83.5

** - 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 WHIS0143

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/20/76-01/17/80	10	12.	12.4	17.	7.	11.6	3.406	7.3	10.	16.25	17.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	01/20/76-01/17/80	9	20.	18.222	27.	10.	27.444	5.239	10.	14.	21.	27.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/20/76-01/17/80	10 ##	0.5	5.2	32.	0.	100.4	10.02	0.	0.	8.25	29.7
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	01/20/76-01/17/80	10	160.	151.5	185.	102.	915.611	30.259	102.1	130.75	176.25	184.5
00300	OXYGEN, DISSOLVED MG/L	01/20/76-01/17/80	10	9.65	9.41	10.8	7.6	1.617	1.271	7.61	7.775	10.625	10.79
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	01/20/76-01/17/80	10	0.3	0.34	0.7	0.2	0.02	0.143	0.2	0.275	0.4	0.67
00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/20/76-01/17/80	10	80.	74.5	100.	35.	313.611	17.709	37.5	67.5	82.5	99.

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0143

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/20/76-01/17/80	10	11.5	11.2	18.	3.	23.289	4.826	3.1	8.5	15.25	17.8
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	01/20/76-01/17/80	10	16.5	16.7	28.	4.	44.678	6.684	4.6	13.	21.25	27.4
00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/20/76-01/17/80	10 ##	0.	0.2	1.	0.	0.178	0.422	0.	0.	0.25	1.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	01/20/76-01/17/80	10	110.	106.3	150.	58.	1076.9	32.816	58.7	72.5	133.75	149.5
00300	OXYGEN, DISSOLVED MG/L	01/20/76-01/17/80	10	10.1	10.25	12.	7.8	2.156	1.468	7.92	9.075	11.925	12.
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	01/20/76-01/17/80	10	0.3	0.31	0.4	0.1	0.01	0.099	0.11	0.275	0.4	0.4
00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/20/76-01/17/80	10	52.5	49.	60.	20.	182.222	13.499	21.5	38.75	60.	60.

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0143

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/20/76-01/17/80	11	12.	11.673	18.9	5.	19.526	4.419	5.4	8.	16.7	18.46
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	01/20/76-01/17/80	11	18.	18.6	30.	9.	51.768	7.195	9.6	13.3	26.7	29.78
00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/20/76-01/17/80	11	2.	2.273	9.	0.	6.818	2.611	0.	1.	2.	8.2
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	01/20/76-01/17/80	11	138.	140.182	173.	95.	695.564	26.374	97.	118.	165.	172.4
00300	OXYGEN, DISSOLVED MG/L	01/20/76-01/17/80	11	9.8	10.627	14.8	9.	2.806	1.675	9.08	9.6	11.5	14.22
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	01/20/76-01/17/80	11	0.5	0.882	3.6	0.2	1.022	1.011	0.22	0.3	1.4	3.2
00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/20/76-01/17/80	11	50.	53.182	80.	30.	191.364	13.833	32.	45.	60.	78.

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

Annual Analysis for 1980 - Station WHIS0143

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/20/76-01/17/80	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	01/20/76-01/17/80	1	9.4	9.4	9.4	9.4	0.	0.	**	**	**	**
00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/20/76-01/17/80	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	01/20/76-01/17/80	1	60.	60.	60.	60.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	01/20/76-01/17/80	1	10.8	10.8	10.8	10.8	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	01/20/76-01/17/80	1	1.6	1.6	1.6	1.6	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/20/76-01/17/80	1	40.	40.	40.	40.	0.	0.	**	**	**	**

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

Station Inventory for Station: WHIS0144

NPS Station ID: WHIS0144 LAT/LON: 40.656587/-122.638504 Agency: 11NPSWRD Date Created: 04/10/99
Location: MILL CREEK; AT MAIN POWERLINE OVERCROSSING FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): WHIS_NPS_17
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 Depth of Water: 0 Aquifer:
Major Basin: CALIFORNIA Elevation: 0 Water Body Id:
Minor Basin: SACRAMENTO RIVER ECO Region:
RF1 Index: 18020112 RF1 Mile Point: 0.000 Distance from RF1: 0.80 On/Off RF1:
RF3 Index: 18010211001600.95 RF3 Mile Point: 5.98 Distance from RF3: 0.04 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE FRENCH GULCH CA 7.5' SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE WAS DESCRIBED BY THE NPS AS "MILL CREEK; AT MAIN POWERLINE OVERCROSSING" INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA WERE FROM MISCELLANEOUS PAPERS IN A BROWN FOLDER LABELED "WATER QUALITY." THE FOLDER WAS FROM THE PARK. THE LOCATION OF THE STATION WAS ESTIMATED USING SITE DESCRIPTIONS. LATITUDE AND LONGITUDE VALUES WERE OBTAINED BY DIGITIZING A POINT MARKED ON A QUADRANGLE. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; PO BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NPS WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0144

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/31/84-08/31/84	1	16.	16.	16.	16.	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/31/84-08/31/84	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00032	CLOUD COVER (PERCENT)	08/31/84-08/31/84	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00035	WIND VELOCITY (MILES PER HOUR)	08/31/84-08/31/84	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00045	PRECIPITATION, TOTAL (INCHES PER DAY)	08/31/84-08/31/84	1	0.29	0.29	0.29	0.29	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/31/84-08/31/84	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/31/84-08/31/84	1	120.	120.	120.	120.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	08/31/84-08/31/84	1	9.2	9.2	9.2	9.2	0.	0.	**	**	**	**
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	08/31/84-08/31/84	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0144

				Total	Exceed	Prop.	6/01-11/09			11/10-2/20			2/21-5/31			n/a		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00	1	0	0.00									
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: WHIS0145

NPS Station ID: WHIS0145
LAT/LON: 40.658337/-122.498059
Agency: 11TOX09
Date Created: 10/20/84
Location: SPRING CK BL BOULDER CK NR IRON MT MINE
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM/MINE
STORET Station ID(s): IRONMT-73 /SPRING-73
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 18020112
Depth of Water: 999
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112003
RF1 Mile Point: 4.390
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 18020112000304.54
RF3 Mile Point: 5.11
Distance from RF3: 0.03
On/Off RF3:
Description:

Parameter Inventory for Station: WHIS0145

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/29/83-05/23/84	2	15.75	15.75	18.	13.5	10.125	3.182	**	**	**	**
00058	FLOW, RATE GALLONS/MIN	09/29/83-05/23/84	2	339.135	339.135	673.	5.27	222931.676	472.156	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/29/83-05/23/84	2	1885.	1885.	2370.	1400.	470450.	685.894	**	**	**	**
00400	PH (STANDARD UNITS)	09/29/83-05/23/84	2	4.41	4.41	5.27	3.55	1.479	1.216	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/29/83-05/23/84	2	3.843	3.843	5.27	3.55	2.123	1.457	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/29/83-05/23/84	2	143.604	143.604	281.838	5.37	38217.271	195.492	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/23/84-05/23/84	1	42.	42.	42.	42.	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	05/23/84-05/23/84	1	15900.	15900.	15900.	15900.	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	05/23/84-05/23/84	1	4940.	4940.	4940.	4940.	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	05/23/84-05/23/84	1	1820.	1820.	1820.	1820.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	05/23/84-05/23/84	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	05/23/84-05/23/84	1	1410.	1410.	1410.	1410.	0.	0.	**	**	**	**
00956	SILICA, TOTAL (MG/L AS SI02)	05/23/84-05/23/84	1	4.4	4.4	4.4	4.4	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	09/29/83-05/23/84	2 ##	41.	41.	77.	5.	2592.	50.912	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	09/29/83-05/23/84	2 ##	32.	32.	50.	14.	648.	25.456	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	09/29/83-05/23/84	2 ##	1.5	1.5	2.5	0.5	2.	1.414	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	09/29/83-09/29/83	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	09/29/83-05/23/84	2	270.	270.	370.	170.	20000.	141.421	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	09/29/83-05/23/84	2	19.	19.	22.	16.	18.	4.243	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	09/29/83-05/23/84	2	31.5	31.5	50.	13.	684.5	26.163	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	09/29/83-05/23/84	2	550.5	550.5	773.	328.	99012.5	314.663	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	05/23/84-05/23/84	1	219000.	219000.	219000.	219000.	0.	0.	**	**	**	**
01047	IRON, FERROUS (UG/L AS FE)	05/23/84-05/23/84	1	16.	16.	16.	16.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	09/29/83-05/23/84	2	48.5	48.5	88.	9.	3120.5	55.861	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	09/29/83-05/23/84	2	656.5	656.5	814.	499.	49612.5	222.739	**	**	**	**
01059	THALLIUM, TOTAL (UG/L AS TL)	09/29/83-05/23/84	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	09/29/83-05/23/84	2 ##	58.75	58.75	110.	7.5	5253.125	72.478	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	09/29/83-05/23/84	2 ##	2.75	2.75	5.	0.5	10.125	3.182	**	**	**	**
01087	VANADIUM, TOTAL (UG/L AS V)	09/29/83-05/23/84	2 ##	71.	71.	100.	42.	1682.	41.012	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	05/23/84-05/23/84	1	21300.	21300.	21300.	21300.	0.	0.	**	**	**	**
01097	ANTIMONY, TOTAL (UG/L AS SB)	09/29/83-05/23/84	2 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01102	TIN, TOTAL (UG/L AS SN)	09/29/83-05/23/84	2 ##	55.	55.	100.	10.	4050.	63.64	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	05/23/84-05/23/84	1	23700.	23700.	23700.	23700.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	09/29/83-05/23/84	2 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01171	PLATINUM,WHOLE WATER SAMPLE,UG/L	05/23/84-05/23/84	1	12.	12.	12.	12.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/23/84-05/23/84	1	102.	102.	102.	102.	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	09/29/83-05/23/84	2 ##	2.325	2.325	4.6	0.05	10.351	3.217	**	**	**	**
71910	GOLD, TOTAL (UG/L AS AU)	05/23/84-05/23/84	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**

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

Parameter Inventory for Station: WHIS0145

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
82032	CALCIUM - TOTAL UG/L (AS CA)	05/23/84-05/23/84	1	11700.	11700.	11700.	11700.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0145

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	2	0	0.00	1	0	0.00				1	0	0.00			
		Other-Lo Lim.	6.5	2	2	1.00	1	1	1.00				1	1	1.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	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			
01002	ARSENIC, TOTAL	Fresh Acute	360.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	50.	2	1	0.50	1	0	0.00				1	1	1.00			
01007	BARIUM, TOTAL	Drinking Water	2000.	2	0	0.00	1	0	0.00				1	0	0.00			
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	4.	2	0	0.00	1	0	0.00				1	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	2	2	1.00	1	1	1.00				1	1	1.00			
		Drinking Water	5.	2	2	1.00	1	1	1.00				1	1	1.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	2	0	0.00	1	0	0.00				1	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	2	2	1.00	1	1	1.00				1	1	1.00			
		Drinking Water	1300.	2	0	0.00	1	0	0.00				1	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	2	1	0.50	1	1	1.00				1	0	0.00			
		Drinking Water	15.	2	1	0.50	1	1	1.00				1	0	0.00			
01059	THALLIUM, TOTAL	Fresh Acute	1400.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	2.	0 &	0	0.00												
01067	NICKEL, TOTAL	Fresh Acute	1400.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	100.	2	1	0.50	1	1	1.00				1	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	1 &	0	0.00							1	0	0.00			
		Drinking Water	100.	2	0	0.00	1	0	0.00				1	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	1	1	1.00							1	1	1.00			
		Drinking Water	5000.	1	1	1.00							1	1	1.00			
01097	ANTIMONY, TOTAL	Fresh Acute	88.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	6.	0 &	0	0.00												
01147	SELENIUM, TOTAL	Fresh Acute	20.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	50.	2	0	0.00	1	0	0.00				1	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	2	1	0.50	1	1	1.00				1	0	0.00			
		Drinking Water	2.	2	1	0.50	1	1	1.00				1	0	0.00			

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

Station Inventory for Station: WHIS0146

NPS Station ID: WHIS0146
LAT/LON: 40.658337/-122.511670
Agency: 11TOX09
Date Created: 10/13/84
Location: TRIBUTARY TO SLICKROCK CK
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM/MINE
STORET Station ID(s): IRONMT-614 /SLICKROCK614
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 18020112
Depth of Water: 999
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112003
RF1 Mile Point: 3.900
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 18020112011800.00
RF3 Mile Point: 0.44
Distance from RF3: 0.01
On/Off RF3:
Description:

Parameter Inventory for Station: WHIS0146

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/13/84-06/13/84	1	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
00058	FLOW, RATE GALLONS/MIN	06/13/84-06/13/84	1	0.09	0.09	0.09	0.09	0.	0.	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	06/13/84-06/13/84	1	0.09	0.09	0.09	0.09	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/13/84-06/13/84	1	80.	80.	80.	80.	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/13/84-06/13/84	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	06/13/84-06/13/84	1	4850.	4850.	4850.	4850.	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	06/13/84-06/13/84	1	3560.	3560.	3560.	3560.	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	06/13/84-06/13/84	1 ##	100.	100.	100.	100.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/13/84-06/13/84	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	06/13/84-06/13/84	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00956	SILICA, TOTAL (MG/L AS SI02)	06/13/84-06/13/84	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	06/13/84-06/13/84	1 ##	4.	4.	4.	4.	0.	0.	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	06/13/84-06/13/84	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	06/13/84-06/13/84	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	06/13/84-06/13/84	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	06/13/84-06/13/84	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	06/13/84-06/13/84	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	06/13/84-06/13/84	1	198.	198.	198.	198.	0.	0.	**	**	**	**
01047	IRON, FERROUS (UG/L AS FE)	06/13/84-06/13/84	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	06/13/84-06/13/84	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	06/13/84-06/13/84	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01059	THALLIUM, TOTAL (UG/L AS TL)	06/13/84-06/13/84	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	06/13/84-06/13/84	1 ##	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	06/13/84-06/13/84	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01087	VANADIUM, TOTAL (UG/L AS V)	06/13/84-06/13/84	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01097	ANTIMONY, TOTAL (UG/L AS SB)	06/13/84-06/13/84	1 ##	3.	3.	3.	3.	0.	0.	**	**	**	**
01171	PLATINUM,WHOLE WATER SAMPLE,UG/L	06/13/84-06/13/84	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	06/13/84-06/13/84	1	91.	91.	91.	91.	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	06/13/84-06/13/84	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
71910	GOLD, TOTAL (UG/L AS AU)	06/13/84-06/13/84	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
82032	CALCIUM - TOTAL UG/L (AS CA)	06/13/84-06/13/84	1	5740.	5740.	5740.	5740.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0146

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
		Drinking Water	250.	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00	1	0	0.00									
01002	ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
01007	BARIUM, TOTAL	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	1	0	0.00	1	0	0.00									
		Drinking Water	4.	1	0	0.00	1	0	0.00									
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1	0	0.00	1	0	0.00									
		Drinking Water	5.	1	0	0.00	1	0	0.00									
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00	1	0	0.00									
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00	1	0	0.00									
		Drinking Water	15.	1	0	0.00	1	0	0.00									
01059	THALLIUM, TOTAL	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01077	SILVER, TOTAL	Fresh Acute	4.1	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01097	ANTIMONY, TOTAL	Fresh Acute	88.	1	0	0.00	1	0	0.00									
		Drinking Water	6.	1	0	0.00	1	0	0.00									
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: WHIS0147

NPS Station ID: WHIS0147
LAT/LON: 40.658892/-122.506253
Agency: 11TOX09
Date Created: 10/13/84
Location: SLICKROCK CK AB TRIBUTARY AT ELEVATION 1610 FT
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM/MINE
STORET Station ID(s): IRONMT-613 /SLICKROCK613
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 18020112
Depth of Water: 999
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112003
RF1 Mile Point: 3.900
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 18020112011800.00
RF3 Mile Point: 0.74
Distance from RF3: 0.16
On/Off RF3:
Description:

Parameter Inventory for Station: WHIS0147

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/13/84-06/13/84	1	22.5	22.5	22.5	22.5	0.	0.	**	**	**	**
00058	FLOW, RATE GALLONS/MIN	06/13/84-06/13/84	1	0.44	0.44	0.44	0.44	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/13/84-06/13/84	1	2700.	2700.	2700.	2700.	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/13/84-06/13/84	1	85.	85.	85.	85.	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	06/13/84-06/13/84	1	108000.	108000.	108000.	108000.	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	06/13/84-06/13/84	1	5600.	5600.	5600.	5600.	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	06/13/84-06/13/84	1 ##	100.	100.	100.	100.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/13/84-06/13/84	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	06/13/84-06/13/84	1	1920.	1920.	1920.	1920.	0.	0.	**	**	**	**
00956	SILICA, TOTAL (MG/L AS SI02)	06/13/84-06/13/84	1	4.2	4.2	4.2	4.2	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	06/13/84-06/13/84	1	21.	21.	21.	21.	0.	0.	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	06/13/84-06/13/84	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	06/13/84-06/13/84	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	06/13/84-06/13/84	1	115.	115.	115.	115.	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	06/13/84-06/13/84	1	22.	22.	22.	22.	0.	0.	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	06/13/84-06/13/84	1	147.	147.	147.	147.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	06/13/84-06/13/84	1	15300.	15300.	15300.	15300.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	06/13/84-06/13/84	1	215000.	215000.	215000.	215000.	0.	0.	**	**	**	**
01047	IRON, FERROUS (UG/L AS FE)	06/13/84-06/13/84	1	33.	33.	33.	33.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	06/13/84-06/13/84	1	11.	11.	11.	11.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	06/13/84-06/13/84	1	4110.	4110.	4110.	4110.	0.	0.	**	**	**	**
01059	THALLIUM, TOTAL (UG/L AS TL)	06/13/84-06/13/84	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	06/13/84-06/13/84	1	31.	31.	31.	31.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	06/13/84-06/13/84	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01087	VANADIUM, TOTAL (UG/L AS V)	06/13/84-06/13/84	1	22.	22.	22.	22.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	06/13/84-06/13/84	1	15200.	15200.	15200.	15200.	0.	0.	**	**	**	**
01097	ANTIMONY, TOTAL (UG/L AS SB)	06/13/84-06/13/84	1 ##	3.	3.	3.	3.	0.	0.	**	**	**	**
01102	TIN, TOTAL (UG/L AS SN)	06/13/84-06/13/84	1 ##	100.	100.	100.	100.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	06/13/84-06/13/84	1	154000.	154000.	154000.	154000.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	06/13/84-06/13/84	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01171	PLATINUM,WHOLE WATER SAMPLE,UG/L	06/13/84-06/13/84	1	18.	18.	18.	18.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	06/13/84-06/13/84	1	2740.	2740.	2740.	2740.	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	06/13/84-06/13/84	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
71910	GOLD, TOTAL (UG/L AS AU)	06/13/84-06/13/84	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
82032	CALCIUM - TOTAL UG/L (AS CA)	06/13/84-06/13/84	1	35300.	35300.	35300.	35300.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0147

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a 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									
01002	ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
01007	BARIUM, TOTAL	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	1	0	0.00	1	0	0.00									
		Drinking Water	4.	1	0	0.00	1	0	0.00									
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1	1	1.00	1	1	1.00									
		Drinking Water	5.	1	1	1.00	1	1	1.00									
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00	1	0	0.00									
01042	COPPER, TOTAL	Fresh Acute	18.	1	1	1.00	1	1	1.00									
		Drinking Water	1300.	1	1	1.00	1	1	1.00									
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00	1	0	0.00									
		Drinking Water	15.	1	0	0.00	1	0	0.00									
01059	THALLIUM, TOTAL	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01077	SILVER, TOTAL	Fresh Acute	4.1	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01092	ZINC, TOTAL	Fresh Acute	120.	1	1	1.00	1	1	1.00									
		Drinking Water	5000.	1	1	1.00	1	1	1.00									
01097	ANTIMONY, TOTAL	Fresh Acute	88.	1	0	0.00	1	0	0.00									
		Drinking Water	6.	1	0	0.00	1	0	0.00									
01147	SELENIUM, TOTAL	Fresh Acute	20.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: WHIS0148

NPS Station ID: WHIS0148
LAT/LON: 40.659420/-122.636587
Agency: 11NPSWRD
Date Created: 05/23/98
Location: MILL CREEK
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): WHIS_NPS_08
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112
Depth of Water: 0
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112
RF1 Mile Point: 0.000
Distance from RF1: 0.80
On/Off RF1:
RF3 Index: 18010211001600.95
RF3 Mile Point: 5.98
Distance from RF3: 0.04
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE FRENCH GULCH CA 7.5' SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE WAS DESCRIBED BY THE NPS AS "MILL CREEK" AND WAS LOCATED NEXT TO AN UNIMPROVED ROAD APPROXIMATELY 0.25 MILES SOUTH OF THE TRINITY MOUNTAIN ROAD AND STATE ROUTE 299 INTERSECTION INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA WERE COLLECTED FROM APPROXIMATELY 1973 UNTIL 1980 BY PARK PERSONNEL FOR FOURTEEN TOTAL LOCATIONS. THE DATA FOR EACH LOCATION WERE IN SEPARATELY BOUND FILES. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; PO BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NPS WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0148

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-01/23/80	91	10.	10.64	21.	2.	20.46	4.523	5.	7.	15.	16.66
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-01/23/80	91	19.	18.158	37.2	4.	57.666	7.594	8.06	11.1	24.	28.3
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/01/73-01/23/80	83	1.	3.922	40.	0.4	45.609	6.753	0.54	0.8	4.	10.6
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-01/23/80	91	2.	5.213	90.	0.	111.7	10.569	0.	0.	5.	14.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-01/23/80	83	103.	98.747	130.	49.	363.313	19.061	69.4	86.	110.	120.
00300	OXYGEN, DISSOLVED MG/L	03/02/73-01/23/80	90	11.	10.988	14.	8.2	1.828	1.352	9.31	9.875	12.	12.99
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-01/23/80	91	0.3	0.654	7.	0.	1.743	1.32	0.032	0.2	0.4	1.08
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/04/74-08/14/76	30	2.44	2.671	7.5	1.01	2.479	1.574	1.073	1.388	3.5	4.36
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	07/02/73-08/14/76	46	0.08	0.087	0.25	0.01	0.004	0.063	0.02	0.03	0.115	0.19
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/73-01/23/80	91	40.	38.626	60.	15.	94.992	9.746	25.	30.	45.	50.

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

EPA Water Quality Criteria Analysis for Station: WHIS0148

				Total	Exceed	Prop.	6/01-11/09			11/10-2/20			2/21-5/31			n/a		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	91	1	0.01	41	0	0.00	25	1	0.04	25	0	0.00			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	90	0	0.00	41	0	0.00	24	0	0.00	25	0	0.00			

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

EPA Water Quality Criteria Analysis for Station: WHIS0148

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	91	0	0.00	41	0	0.00	25	0	0.00	25	0	0.00			

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

Annual Analysis for 1973 - Station WHIS0148

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-01/23/80	21	10.	11.338	19.4	7.2	14.722	3.837	7.2	8.05	15.	16.98
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-01/23/80	21	18.3	18.576	28.3	7.8	49.047	7.003	8.64	11.1	25.6	28.2
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/01/73-01/23/80	16	1.	2.856	10.	0.6	10.911	3.303	0.6	0.7	4.	10.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-01/23/80	21	4.	6.	20.	0.	44.1	6.641	0.	0.5	9.	20.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-01/23/80	16	98.5	97.625	115.	60.	195.717	13.99	73.3	92.	108.75	111.5
00300	OXYGEN, DISSOLVED MG/L	03/02/73-01/23/80	20	11.2	11.365	14.	9.2	2.209	1.486	9.36	10.05	12.75	13.9
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-01/23/80	21	0.05	1.742	7.	0.	6.119	2.474	0.	0.03	3.	6.8
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/73-01/23/80	21	35.	35.238	45.	15.	58.69	7.661	22.	30.	40.	45.

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

Annual Analysis for 1974 - Station WHIS0148

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-01/23/80	14	9.5	9.686	16.5	4.	19.778	4.447	4.2	5.75	13.5	16.25
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-01/23/80	14	13.5	14.15	26.	4.	63.73	7.983	4.5	5.45	21.625	25.5
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/01/73-01/23/80	14	3.5	7.571	36.	1.	88.571	9.411	1.	1.75	11.5	25.5
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-01/23/80	14	4.5	10.357	90.	0.	549.17	23.434	0.	0.	7.75	53.5
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-01/23/80	14	88.	90.	115.	63.	242.923	15.586	67.5	77.5	103.5	112.5
00300	OXYGEN, DISSOLVED MG/L	03/02/73-01/23/80	14	11.2	11.15	12.4	9.6	0.872	0.934	9.7	10.2	12.025	12.25
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-01/23/80	14	0.25	0.243	0.5	0.001	0.014	0.117	0.076	0.188	0.3	0.45
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/73-01/23/80	14	30.	32.5	45.	20.	64.423	8.026	22.5	25.	40.	45.

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

Annual Analysis for 1975 - Station WHIS0148

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-01/23/80	12	9.5	10.042	17.	4.	25.384	5.038	4.3	5.125	15.	16.7
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-01/23/80	12	15.5	16.667	25.	8.	33.697	5.805	8.6	11.25	22.	24.7
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/01/73-01/23/80	12	2.	3.825	15.	0.9	18.204	4.267	0.93	1.	6.25	12.9
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-01/23/80	12	4.	5.	10.	1.	10.	3.162	1.3	2.25	8.75	9.7
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-01/23/80	9	101.	96.222	115.	69.	267.944	16.369	69.	80.	110.	115.
00300	OXYGEN, DISSOLVED MG/L	03/02/73-01/23/80	12	11.35	11.	13.	9.1	1.925	1.388	9.19	9.475	12.225	12.82
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-01/23/80	12	0.35	0.367	0.6	0.2	0.012	0.107	0.23	0.3	0.4	0.57
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/73-01/23/80	12	40.	37.917	50.	30.	52.083	7.217	30.	30.	40.	50.

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

Annual Analysis for 1976 - Station WHIS0148

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-01/23/80	12	9.5	10.583	18.	4.	20.629	4.542	4.3	6.5	15.	17.1
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-01/23/80	12	20.5	20.5	31.	9.	60.636	7.787	9.3	13.	28.25	31.
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/01/73-01/23/80	12	1.	1.35	5.	0.5	1.568	1.252	0.5	0.7	1.75	4.1
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-01/23/80	12	2.5	3.617	15.	0.	18.2	4.266	0.	0.55	4.75	12.9
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-01/23/80	12	110.	101.583	120.	49.	453.538	21.296	55.3	97.75	114.75	120.
00300	OXYGEN, DISSOLVED MG/L	03/02/73-01/23/80	12	10.75	10.8	12.8	8.9	1.611	1.269	9.05	9.7	11.925	12.71
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-01/23/80	12	0.2	0.228	0.4	0.18	0.004	0.063	0.186	0.2	0.238	0.37
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/73-01/23/80	12	45.	47.	60.	40.	49.091	7.006	40.	40.5	50.	60.

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0148

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-01/23/80	10	13.5	12.5	21.	3.	25.167	5.017	3.5	8.75	16.	20.5
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-01/23/80	10	20.	18.8	30.	5.	52.4	7.239	5.6	13.25	23.	29.6
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/01/73-01/23/80	10	0.85	2.2	12.	0.4	12.496	3.535	0.41	0.575	2.25	11.1
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-01/23/80	10	1.	5.1	28.	0.	84.989	9.219	0.	0.	6.	26.7
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-01/23/80	10	120.	111.	130.	55.	493.333	22.211	58.5	108.75	120.	129.
00300	OXYGEN, DISSOLVED MG/L	03/02/73-01/23/80	10	10.25	10.4	13.	8.5	1.562	1.25	8.6	9.5	11.075	12.83
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-01/23/80	10	0.3	0.3	0.4	0.2	0.007	0.082	0.2	0.2	0.4	0.4
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/73-01/23/80	10	50.	47.	60.	20.	117.778	10.853	22.	43.75	51.25	59.5

** - 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 1978 - Station WHIS0148

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-01/23/80	10	10.5	9.9	17.	2.	23.433	4.841	2.1	6.	13.5	16.8
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-01/23/80	10	20.5	19.1	32.	8.	48.989	6.999	8.2	13.75	23.25	31.2
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/01/73-01/23/80	8	1.	8.813	40.	0.5	217.281	14.74	**	**	**	**
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-01/23/80	10	1.	0.8	2.	0.	0.622	0.789	0.	0.	1.25	2.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-01/23/80	10	102.5	97.	120.	58.	400.889	20.022	59.8	82.75	112.5	120.
00300	OXYGEN, DISSOLVED MG/L	03/02/73-01/23/80	10	10.95	10.96	13.2	9.1	2.24	1.497	9.12	9.6	12.375	13.17
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-01/23/80	10	0.3	0.3	0.4	0.2	0.004	0.067	0.2	0.275	0.325	0.4
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/73-01/23/80	10	39.5	39.5	50.	20.	94.944	9.744	21.1	34.	50.	50.

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

Annual Analysis for 1979 - Station WHIS0148

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-01/23/80	11	11.	10.673	17.8	4.4	25.352	5.035	4.52	5.6	16.7	17.8
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-01/23/80	11	21.	20.736	37.2	5.	97.333	9.866	6.12	11.7	30.	36.2
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/01/73-01/23/80	10	1.5	1.52	4.	0.5	1.237	1.112	0.5	0.5	2.	3.8
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-01/23/80	11	2.	2.091	9.	0.	7.091	2.663	0.	0.	3.	8.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-01/23/80	11	105.	101.727	130.	62.	556.618	23.593	62.4	90.	127.	129.8
00300	OXYGEN, DISSOLVED MG/L	03/02/73-01/23/80	11	10.7	10.8	13.7	8.2	2.848	1.688	8.24	9.8	11.8	13.54
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-01/23/80	11	0.3	0.509	1.1	0.3	0.087	0.295	0.3	0.3	0.8	1.06
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/73-01/23/80	11	40.	35.091	50.	20.	92.091	9.596	20.2	25.	40.	48.

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

Annual Analysis for 1980 - Station WHIS0148

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-01/23/80	1	5.6	5.6	5.6	5.6	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-01/23/80	1	11.1	11.1	11.1	11.1	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/01/73-01/23/80	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-01/23/80	1	18.	18.	18.	18.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-01/23/80	1	90.	90.	90.	90.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	03/02/73-01/23/80	1	11.5	11.5	11.5	11.5	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-01/23/80	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/73-01/23/80	1	50.	50.	50.	50.	0.	0.	**	**	**	**

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

Seasonal Analysis for Season #1: 6/01 to 11/09 - Station WHIS0148

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-01/23/80	41	15.	14.363	21.	9.	8.365	2.892	10.	12.	16.3	17.8
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-01/23/80	41	22.	23.329	37.2	10.	32.16	5.671	16.8	19.	27.5	31.
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/01/73-01/23/80	40	0.95	1.045	3.	0.4	0.355	0.596	0.5	0.625	1.	2.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-01/23/80	41	2.	3.683	20.	0.	27.172	5.213	0.	1.	4.	9.8
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-01/23/80	39	110.	109.308	130.	88.	114.008	10.677	96.	101.	120.	127.
00300	OXYGEN, DISSOLVED MG/L	03/02/73-01/23/80	41	9.8	10.034	14.	8.2	1.358	1.165	8.94	9.4	10.35	11.16
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-01/23/80	41	0.3	1.061	7.	0.03	3.483	1.866	0.07	0.2	0.5	4.6
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/73-01/23/80	41	40.	41.463	60.	25.	51.105	7.149	31.8	37.	45.	50.

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

Seasonal Analysis for Season #2: 11/10 to 2/20 - Station WHIS0148

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-01/23/80	25	5.5	5.932	10.	2.	4.408	2.1	3.6	4.4	7.6	9.16
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-01/23/80	25	10.6	10.276	19.	4.	14.305	3.782	5.	7.9	12.	16.
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/01/73-01/23/80	22	3.	6.041	36.	0.9	59.903	7.74	1.	1.	7.75	12.7
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-01/23/80	25	4.	8.64	90.	0.	329.323	18.147	0.	0.	8.	22.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-01/23/80	24	84.	85.875	120.	49.	472.288	21.732	57.5	65.5	108.75	115.
00300	OXYGEN, DISSOLVED MG/L	03/02/73-01/23/80	24	12.	11.958	13.2	10.4	0.567	0.753	10.7	11.5	12.475	12.95
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-01/23/80	25	0.3	0.425	2.	0.	0.171	0.414	0.108	0.2	0.4	0.94
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/73-01/23/80	25	40.	36.12	60.	15.	134.943	11.617	20.	27.5	45.	50.

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

Seasonal Analysis for Season #3: 2/21 to 5/31 - Station WHIS0148

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-01/23/80	25	8.9	9.24	15.	3.	9.563	3.092	6.	7.	11.5	14.4
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-01/23/80	25	17.	17.56	29.	5.	37.572	6.13	8.6	13.5	21.55	26.
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/01/73-01/23/80	21	4.	7.181	40.	0.5	90.763	9.527	0.56	1.5	9.5	21.4
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-01/23/80	25	3.	4.296	17.	0.	27.157	5.211	0.	0.	7.	15.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-01/23/80	20	91.5	93.6	120.	58.	302.147	17.382	69.7	81.25	104.75	120.
00300	OXYGEN, DISSOLVED MG/L	03/02/73-01/23/80	25	11.7	11.62	14.	10.	1.059	1.029	10.16	10.85	12.1	13.
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-01/23/80	25	0.2	0.215	0.6	0.	0.02	0.141	0.018	0.09	0.3	0.34
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/73-01/23/80	25	35.	36.48	60.	20.	111.01	10.536	23.	30.	46.	50.

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

Station Inventory for Station: WHIS0149

NPS Station ID: WHIS0149 LAT/LON: 40.659615/-122.641199 Agency: 11NPSWRD Date Created: 02/13/99
Location: BICKFORD SPRING SW 1/4 NE 1/4 SECT. 3 T32N R7W FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/SPRING STORET Station ID(s): WHIS_USGS_BS1
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 Depth of Water: 0 Aquifer:
Major Basin: CALIFORNIA Elevation: 0 Water Body Id:
Minor Basin: SACRAMENTO RIVER ECO Region:
RF1 Index: 18020112 RF1 Mile Point: 0.000 Distance from RF1: 0.80 On/Off RF1:
RF3 Index: 18010211001600.95 RF3 Mile Point: 5.98 Distance from RF3: 0.04 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE FRENCH GULCH CA-SHASTA COUNTY 7.5' SERIES (TOPOGRAPHIC) QUADRANGLE INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE SITE IS DESCRIBED BY THE USGS AS "BICKFORD SPRING; SW 1/4 NE 1/4; SECT. 3; T32N; R7W." A SPRING COULD NOT BE IDENTIFIED IN THE VICINITY OF THE LOCATION DESCRIPTION. THE LAT/LONG VALUES USED WERE ESTIMATED. DATA WERE COLLECTED BY THE USGS AND LISTED IN A REPORT TITLED "WATER-RESOURCES RECONNAISSANCE OF WHISKEYTOWN NATIONAL RECREATION AREA; CALIFORNIA" DATED 1969. FOR MORE INFORMATION ON THE WHISKEYTOWN UNIT OF THE PARK CONTACT THE CHIEF OF RESOURCES AT THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; P.O. BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0149

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/24/68-05/24/68	1	213.	213.	213.	213.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	05/24/68-05/24/68	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/24/68-05/24/68	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/24/68-05/24/68	1	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	05/24/68-05/24/68	1	118.	118.	118.	118.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	05/24/68-05/24/68	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/24/68-05/24/68	1	82.	82.	82.	82.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	05/24/68-05/24/68	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/24/68-05/24/68	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/24/68-05/24/68	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/24/68-05/24/68	1	14.	14.	14.	14.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/24/68-05/24/68	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	05/24/68-05/24/68	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	05/24/68-05/24/68	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/24/68-05/24/68	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/24/68-05/24/68	1	35.	35.	35.	35.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	05/24/68-05/24/68	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	05/24/68-05/24/68	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	05/24/68-05/24/68	1	0.08	0.08	0.08	0.08	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	05/24/68-05/24/68	1	0.07	0.07	0.07	0.07	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/24/68-05/24/68	1	149.	149.	149.	149.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	05/24/68-05/24/68	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0149

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
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			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	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			
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			
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: WHIS0150

NPS Station ID: WHIS0150
LAT/LON: 40.660003/-122.495837
Agency: 11TOX09
Date Created: 10/20/84
Location: BOULDER CK AT SPRING CK NR IRON MT MINE
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM/MINE
STORET Station ID(s): IRONMT-56 /BOULDER-56
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 18020112
Depth of Water: 999
Aquifer:
Major Basin: CALIFORNA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112003
RF1 Mile Point: 4.540
Distance from RF1: 10.60
On/Off RF1: OFF
RF3 Index: 18020112001300.00
RF3 Mile Point: 2.79
Distance from RF3: 0.33
On/Off RF3:
Description:

Parameter Inventory for Station: WHIS0150

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/23/84-05/23/84	1	19.	19.	19.	19.	0.	0.	**	**	**	**
00058	FLOW, RATE GALLONS/MIN	05/23/84-05/23/84	1	1.54	1.54	1.54	1.54	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/23/84-05/23/84	1	3769.	3769.	3769.	3769.	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/23/84-05/23/84	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	05/23/84-05/23/84	1	59300.	59300.	59300.	59300.	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	05/23/84-05/23/84	1	10400.	10400.	10400.	10400.	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	05/23/84-05/23/84	1	8490.	8490.	8490.	8490.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	05/23/84-05/23/84	1	18.	18.	18.	18.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	05/23/84-05/23/84	1	3460.	3460.	3460.	3460.	0.	0.	**	**	**	**
00956	SILICA, TOTAL (MG/L AS SI02)	05/23/84-05/23/84	1	9.5	9.5	9.5	9.5	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	05/23/84-05/23/84	1	280.	280.	280.	280.	0.	0.	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	05/23/84-05/23/84	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	05/23/84-05/23/84	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	05/23/84-05/23/84	1	650.	650.	650.	650.	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	05/23/84-05/23/84	1	57.	57.	57.	57.	0.	0.	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	05/23/84-05/23/84	1	75.	75.	75.	75.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	05/23/84-05/23/84	1	1100.	1100.	1100.	1100.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	05/23/84-05/23/84	1	898000.	898000.	898000.	898000.	0.	0.	**	**	**	**
01047	IRON, FERROUS (UG/L AS FE)	05/23/84-05/23/84	1	76.	76.	76.	76.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	05/23/84-05/23/84	1	44.	44.	44.	44.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	05/23/84-05/23/84	1	1820.	1820.	1820.	1820.	0.	0.	**	**	**	**
01059	THALLIUM, TOTAL (UG/L AS TL)	05/23/84-05/23/84	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	05/23/84-05/23/84	1	57.	57.	57.	57.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	05/23/84-05/23/84	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01087	VANADIUM, TOTAL (UG/L AS V)	05/23/84-05/23/84	1	133.	133.	133.	133.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	05/23/84-05/23/84	1	90300.	90300.	90300.	90300.	0.	0.	**	**	**	**
01097	ANTIMONY, TOTAL (UG/L AS SB)	05/23/84-05/23/84	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01102	TIN, TOTAL (UG/L AS SN)	05/23/84-05/23/84	1 ##	1000.	1000.	1000.	1000.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	05/23/84-05/23/84	1	90900.	90900.	90900.	90900.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	05/23/84-05/23/84	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01171	PLATINUM,WHOLE WATER SAMPLE,UG/L	05/23/84-05/23/84	1	56.	56.	56.	56.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/23/84-05/23/84	1	5540.	5540.	5540.	5540.	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	05/23/84-05/23/84	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
71910	GOLD, TOTAL (UG/L AS AU)	05/23/84-05/23/84	1 ##	500.	500.	500.	500.	0.	0.	**	**	**	**
82032	CALCIUM - TOTAL UG/L (AS CA)	05/23/84-05/23/84	1	25700.	25700.	25700.	25700.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0150

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a 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			
01002	ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	1	1.00							1	1	1.00			
01007	BARIUM, TOTAL	Drinking Water	2000.	1	0	0.00							1	0	0.00			
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	1	0	0.00							1	0	0.00			
		Drinking Water	4.	1	0	0.00							1	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1	1	1.00							1	1	1.00			
		Drinking Water	5.	1	1	1.00							1	1	1.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00							1	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	1	1	1.00							1	1	1.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00							1	0	0.00			
		Drinking Water	15.	1	1	1.00							1	1	1.00			
01059	THALLIUM, TOTAL	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	2.	1	1	1.00							1	1	1.00			
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	1	1	1.00							1	1	1.00			
		Drinking Water	5000.	1	1	1.00							1	1	1.00			
01097	ANTIMONY, TOTAL	Fresh Acute	88.	1	0	0.00							1	0	0.00			
		Drinking Water	6.	0 &	0	0.00												
01147	SELENIUM, TOTAL	Fresh Acute	20.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00							1	0	0.00			
		Drinking Water	2.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: WHIS0151

NPS Station ID: WHIS0151
LAT/LON: 40.660115/-122.627866
Agency: 11NPSWRD
Date Created: 05/23/98
Location: CLEAR CREEK COGGINS BRIDGE
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): WHIS_NPS_02
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112
Depth of Water: 0
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112
RF1 Mile Point: 0.000
Distance from RF1: 0.80
On/Off RF1:
RF3 Index: 18010211001600.95
RF3 Mile Point: 5.98
Distance from RF3: 0.04
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE FRENCH GULCH CA 7.5' SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE WAS DESCRIBED BY THE NPS AS "CLEAR CREEK COGGINS BRIDGE" AND WAS LOCATED UNDER THE BRIDGE OF AN UNIMPROVED ROAD APPROXIMATELY 0.5 MILES SOUTHEAST OF THE TRINITY MOUNTAIN ROAD AND STATE ROUTE 299 INTERSECTION INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA WERE COLLECTED FROM APPROXIMATELY 1973 UNTIL 1980 BY PARK PERSONNEL FOR FOURTEEN TOTAL LOCATIONS. THE DATA FOR EACH LOCATION WERE IN SEPARATELY BOUND FILES. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT THE WHISKEYTOWN- SHASTA-TRINITY NATIONAL RECREATION AREA; PO BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NPS WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0151

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/14/73-01/17/80	82	13.	13.523	26.	3.	39.909	6.317	5.5	8.225	19.25	21.91
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	01/14/73-01/17/80	82	20.	19.889	37.8	4.	75.779	8.705	8.51	12.	27.85	31.1
00061	FLOW, STREAM, INSTANTANEOUS CFS	07/03/73-10/31/73	9	27.	30.889	67.	16.	284.861	16.878	16.	18.	41.	67.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/14/73-01/17/80	82	4.	9.28	122.	0.	423.883	20.588	0.	1.	9.25	20.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	01/14/73-01/17/80	79	130.	132.949	550.	48.	5412.151	73.567	61.	75.	160.	195.
00300	OXYGEN, DISSOLVED MG/L	01/14/73-01/17/80	82	11.	11.041	20.	8.6	2.309	1.52	9.49	10.	11.7	12.67
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	01/14/73-01/17/80	81	0.3	0.96	10.5	0.05	3.67	1.916	0.2	0.2	0.425	3.
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/04/74-08/14/76	30	1.76	2.147	7.	0.13	1.679	1.296	1.023	1.338	2.755	3.49
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	01/14/73-08/14/76	46	0.09	0.113	0.75	0.02	0.012	0.111	0.037	0.06	0.13	0.183
00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/14/73-01/17/80	82	45.	43.	110.	15.	245.901	15.681	25.	30.	50.	60.

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

EPA Water Quality Criteria Analysis for Station: WHIS0151

				Total	Exceed	Prop.	----------6/01-11/09----------			----------11/10-2/20----------			----------2/21-5/31----------			--------------n/a--------------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	82	3	0.04	39	0	0.00	25	2	0.08	18	1	0.06			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	82	0	0.00	39	0	0.00	25	0	0.00	18	0	0.00			

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

EPA Water Quality Criteria Analysis for Station: WHIS0151

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00620 NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	81	1	0.01	39	0	0.00	24	0	0.00	18	1	0.06			

& - 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 1973 - Station WHIS0151

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/14/73-01/17/80	14	13.6	15.357	25.6	7.8	49.18	7.013	7.8	8.75	22.1	25.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	01/14/73-01/17/80	14	20.55	20.707	35.6	7.8	123.259	11.102	8.05	9.125	31.375	35.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/14/73-01/17/80	14	12.5	20.357	120.	2.	889.016	29.816	2.5	4.75	21.25	72.5
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	01/14/73-01/17/80	14	130.	122.857	200.	58.	2874.901	53.618	58.	60.25	171.25	190.
00300	OXYGEN, DISSOLVED MG/L	01/14/73-01/17/80	14	11.	11.036	12.	9.8	0.326	0.571	10.15	10.675	11.525	11.8
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	01/14/73-01/17/80	13	3.	3.285	8.	0.05	8.656	2.942	0.05	0.2	6.	7.6
00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/14/73-01/17/80	14	42.5	38.214	55.	15.	190.797	13.813	17.5	25.	50.	55.

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0151

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/14/73-01/17/80	12	13.	13.125	20.5	5.	33.278	5.769	5.6	7.25	19.75	20.35
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	01/14/73-01/17/80	12	20.5	20.5	36.	4.	95.727	9.784	5.8	11.25	28.75	33.9
00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/14/73-01/17/80	12	4.	4.917	13.	0.	21.72	4.66	0.	0.25	10.	12.4
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	01/14/73-01/17/80	12	104.5	106.	160.	63.	1510.	38.859	63.	65.75	144.5	160.
00300	OXYGEN, DISSOLVED MG/L	01/14/73-01/17/80	12	11.15	11.408	20.	8.9	8.339	2.888	8.96	9.875	11.675	17.54
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	01/14/73-01/17/80	12	0.4	1.201	10.5	0.15	8.591	2.931	0.168	0.263	0.475	7.53
00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/14/73-01/17/80	12	40.	39.	63.	20.	172.	13.115	21.5	26.25	50.	59.1

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

Annual Analysis for 1975 - Station WHIS0151

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/14/73-01/17/80	12	11.5	12.167	22.	4.	41.379	6.433	4.45	5.875	18.	21.4
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	01/14/73-01/17/80	12	20.	18.458	33.	5.5	78.884	8.882	5.95	10.75	23.75	32.4
00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/14/73-01/17/80	12	4.	6.667	31.	0.	72.242	8.5	0.3	1.25	9.25	25.3
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	01/14/73-01/17/80	9	115.	112.222	170.	56.	1947.694	44.133	56.	63.	150.	170.
00300	OXYGEN, DISSOLVED MG/L	01/14/73-01/17/80	12	10.95	10.85	13.2	8.6	2.512	1.585	8.66	9.325	12.25	13.05
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	01/14/73-01/17/80	12	0.3	0.288	0.45	0.1	0.011	0.103	0.13	0.2	0.388	0.435
00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/14/73-01/17/80	12	35.	34.167	60.	20.	167.424	12.939	20.	21.25	40.	57.

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0151

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/14/73-01/17/80	12	13.5	13.5	26.	3.	48.091	6.935	3.6	7.5	19.75	24.5
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	01/14/73-01/17/80	12	21.5	21.	32.	9.	51.091	7.148	9.6	15.5	27.	31.1
00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/14/73-01/17/80	12	2.5	2.917	10.	0.	8.992	2.999	0.	0.25	4.75	8.8
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	01/14/73-01/17/80	12	137.5	142.167	200.	75.	1707.242	41.319	81.3	106.25	187.5	198.5
00300	OXYGEN, DISSOLVED MG/L	01/14/73-01/17/80	12	11.05	11.158	13.3	8.9	1.684	1.298	9.2	10.15	11.925	13.3
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	01/14/73-01/17/80	12	0.225	0.242	0.5	0.1	0.01	0.1	0.115	0.2	0.288	0.44
00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/14/73-01/17/80	12	46.	48.083	60.	35.	78.629	8.867	36.5	40.	58.75	60.

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0151

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/14/73-01/17/80	10	16.	15.9	26.	7.	36.989	6.082	7.2	9.75	20.5	25.6
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	01/14/73-01/17/80	10	24.	21.8	31.	10.	58.178	7.627	10.	13.75	28.	30.7
00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/14/73-01/17/80	10	5.	16.5	122.	0.	1383.389	37.194	0.	3.	7.75	110.8
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	01/14/73-01/17/80	10	185.	229.	550.	60.	20276.667	142.396	69.	150.	280.	535.
00300	OXYGEN, DISSOLVED MG/L	01/14/73-01/17/80	10	10.7	10.94	13.3	9.4	1.583	1.258	9.44	9.8	12.075	13.2
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	01/14/73-01/17/80	10	0.3	0.32	0.5	0.1	0.017	0.132	0.11	0.2	0.425	0.5
00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/14/73-01/17/80	10	60.	62.5	110.	30.	512.5	22.638	31.5	48.75	71.25	108.

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0151

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/14/73-01/17/80	10	12.	12.3	23.	3.	42.233	6.499	3.	7.5	17.5	22.6
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	01/14/73-01/17/80	10	18.	18.1	28.	8.	50.767	7.125	8.1	11.25	25.5	27.9
00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/14/73-01/17/80	10 ##	0.	8.8	80.	0.	628.4	25.068	0.	0.	2.75	72.5
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	01/14/73-01/17/80	10	122.5	112.6	150.	48.	1430.044	37.816	50.2	73.75	150.	150.
00300	OXYGEN, DISSOLVED MG/L	01/14/73-01/17/80	10	10.65	10.97	13.2	8.7	2.296	1.515	8.8	9.925	12.7	13.18
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	01/14/73-01/17/80	10	0.2	0.26	0.4	0.2	0.007	0.084	0.2	0.2	0.325	0.4
00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/14/73-01/17/80	10	44.	40.6	55.	15.	130.489	11.423	16.3	37.	46.25	54.5

** - 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 1979 - Station WHIS0151

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/14/73-01/17/80	11	11.1	12.5	21.1	4.	35.466	5.955	4.6	7.	18.9	21.1
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	01/14/73-01/17/80	11	14.	19.218	37.8	8.	86.858	9.32	8.8	12.2	25.6	36.46
00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/14/73-01/17/80	11	2.	3.364	10.	0.	10.855	3.295	0.	1.	6.	9.4
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	01/14/73-01/17/80	11	110.	117.636	210.	70.	2213.855	47.052	71.	79.	159.	201.6
00300	OXYGEN, DISSOLVED MG/L	01/14/73-01/17/80	11	10.7	10.864	12.2	9.7	0.723	0.85	9.74	10.1	11.7	12.18
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	01/14/73-01/17/80	11	0.4	0.645	1.4	0.3	0.191	0.437	0.3	0.3	1.2	1.38
00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/14/73-01/17/80	11	40.	41.364	60.	25.	135.455	11.638	26.	30.	50.	59.

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0151

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/14/73-01/17/80	1	8.9	8.9	8.9	8.9	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	01/14/73-01/17/80	1	11.1	11.1	11.1	11.1	0.	0.	**	**	**	**
00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/14/73-01/17/80	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	01/14/73-01/17/80	1	85.	85.	85.	85.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	01/14/73-01/17/80	1	11.3	11.3	11.3	11.3	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	01/14/73-01/17/80	1	1.4	1.4	1.4	1.4	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/14/73-01/17/80	1	50.	50.	50.	50.	0.	0.	**	**	**	**

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

Seasonal Analysis for Season #1: 6/01 to 11/09 - Station WHIS0151

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/14/73-01/17/80	39	20.	18.767	26.	8.9	17.582	4.193	13.	15.	21.1	24.4
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	01/14/73-01/17/80	39	27.8	26.6	37.8	12.8	35.495	5.958	19.	23.	31.1	34.4
00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/14/73-01/17/80	39	4.	6.179	25.	0.	49.046	7.003	0.	1.	9.	20.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	01/14/73-01/17/80	37	160.	174.162	550.	96.	6723.417	81.996	110.	135.	185.	216.
00300	OXYGEN, DISSOLVED MG/L	01/14/73-01/17/80	39	10.1	10.249	12.3	8.6	0.817	0.904	8.9	9.7	11.	11.2
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	01/14/73-01/17/80	39	0.4	1.256	8.	0.05	4.529	2.128	0.1	0.2	0.6	6.
00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/14/73-01/17/80	39	50.	48.744	110.	25.	238.722	15.451	30.	40.	55.	60.

** - Less than 9 observations ## - Computed 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: 11/10 to 2/20 - Station WHIS0151

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/14/73-01/17/80	25	7.8	7.12	12.	3.	6.446	2.539	3.	5.	8.95	10.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	01/14/73-01/17/80	25	11.	11.58	22.	4.	18.628	4.316	6.88	8.65	13.95	19.2
00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/14/73-01/17/80	25	3.	14.6	122.	0.	1071.333	32.731	0.	1.	9.5	66.6
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	01/14/73-01/17/80	25	98.	103.8	190.	58.	1643.333	40.538	58.	64.	137.5	162.
00300	OXYGEN, DISSOLVED MG/L	01/14/73-01/17/80	25	11.6	11.844	13.3	10.5	0.741	0.861	10.56	11.35	12.45	13.24
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	01/14/73-01/17/80	24	0.3	0.556	4.	0.1	0.667	0.817	0.15	0.2	0.4	1.35
00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/14/73-01/17/80	25	40.	38.48	60.	15.	169.427	13.016	20.	25.	48.5	57.

** - Less than 9 observations ## - Computed 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: 2/21 to 5/31 - Station WHIS0151

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/14/73-01/17/80	18	10.5	11.056	17.	7.	11.938	3.455	7.	7.	14.25	16.1
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	01/14/73-01/17/80	18	17.	16.889	28.	7.	41.046	6.407	7.9	11.5	22.	27.1
00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/14/73-01/17/80	18	5.	8.611	80.	0.	333.428	18.26	0.	0.75	10.	17.9
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	01/14/73-01/17/80	17	75.	86.118	160.	48.	1205.86	34.725	54.4	63.	98.	152.
00300	OXYGEN, DISSOLVED MG/L	01/14/73-01/17/80	18	11.25	11.644	20.	9.7	5.357	2.314	9.97	10.275	11.8	13.97
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	01/14/73-01/17/80	18	0.3	0.856	10.5	0.2	5.798	2.408	0.2	0.208	0.325	1.455
00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/14/73-01/17/80	18	32.5	36.833	65.	15.	252.853	15.901	19.5	23.75	51.25	63.2

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

Station Inventory for Station: WHIS0152

NPS Station ID: WHIS0152 LAT/LON: 40.660143/-122.627977 Agency: 11NPSWRD Date Created: 05/30/98
Location: CLEAR CREEK ABOVE WHISKEYTOWN RESERVOIR FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): WHIS_CDWR_07
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 Depth of Water: 0 Aquifer:
Major Basin: CALIFORNIA Elevation: 0 Water Body Id:
Minor Basin: SACRAMENTO RIVER ECO Region:
RF1 Index: 18020112 RF1 Mile Point: 0.000 Distance from RF1: 0.80 On/Off RF1:
RF3 Index: 18010211001600.95 RF3 Mile Point: 5.98 Distance from RF3: 0.04 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE FRENCH GULCH CALIFORNIA 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS DESCRIBED BY THE CALIFORNIA DEPARTMENT OF WATER RESOURCES (CDWR) AS "CLEAR CREEK ABOVE WHISKEYTOWN RESERVOIR" AND IS LOCATED INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA ARE FROM THE CDWR'S DATABASE AND ARE RELATED TO A STUDY OF THE CLEAR CREEK BASIN. THE STUDY BEGAN IN 1997 AND WILL CONTINUE FOR SEVERAL YEARS. FOR MORE INFORMATION ON THE DATA CONTACT THE CDWR; NORTHERN DIVISION: 2440 MAIN STREET; RED BLUFF CALIFORNIA 96080 (TEL 916-529-7300). FOR MORE INFORMATION ON THE WHISKEYTOWN UNIT OF THE PARK CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA: P.O. BOX 188; WHISKEYTOWN CALIFORNIA 96095 (TEL 916-241-6584). THE DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0152

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/97-01/06/98	4	9.55	9.45	14.	4.7	14.71	3.835	**	**	**	**
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	10/07/97-01/06/98	4	49.2	49.025	57.2	40.5	47.483	6.891	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/07/97-01/06/98	4	140.5	136.5	190.	75.	3605.667	60.047	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/07/97-01/06/98	4	137.5	133.75	184.	76.	3224.25	56.782	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	10/07/97-01/06/98	4	10.8	11.15	13.	10.	1.77	1.33	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	10/07/97-01/06/98	4	7.3	7.475	8.1	7.2	0.176	0.419	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	10/07/97-01/06/98	4	7.3	7.368	8.1	7.2	0.191	0.437	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/07/97-01/06/98	4	0.05	0.043	0.063	0.008	0.001	0.024	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/07/97-01/06/98	5	38.	36.6	43.	28.	37.3	6.107	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	10/07/97-12/04/97	3	0.02	0.015	0.02	0.005	0.	0.009	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/07/97-12/04/97	3	0.01	0.02	0.04	0.01	0.	0.017	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/07/97-12/04/97	3 ##	0.1	0.073	0.1	0.02	0.002	0.046	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/13/97-11/13/97	1	56.	56.	56.	56.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/13/97-11/13/97	1	16.	16.	16.	16.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/13/97-11/13/97	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	11/13/97-11/13/97	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/13/97-11/13/97	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	11/13/97-11/13/97	1	18.	18.	18.	18.	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	11/13/97-11/13/97	1	16.	16.	16.	16.	0.	0.	**	**	**	**

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

Parameter Inventory for Station: WHIS0152

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01002	ARSENIC, TOTAL (UG/L AS AS)	10/07/97-11/13/97	1	5.	5.	5.	5.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	10/07/97-11/13/97	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	10/07/97-11/13/97	2 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	10/07/97-11/13/97	2	69.5	69.5	130.	9.	7320.5	85.56	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	10/07/97-11/13/97	2	1532.5	1532.5	2870.	195.	3577812.5	1891.511	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	10/07/97-11/13/97	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/07/97-11/13/97	2	44.	44.	79.	9.	2450.	49.497	**	**	**	**
01062	MOLYBDENUM, TOTAL (UG/L AS MO)	10/07/97-11/13/97	1	150.	150.	150.	150.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	10/07/97-11/13/97	2 ##	1.25	1.25	2.	0.5	1.125	1.061	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	10/07/97-11/13/97	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	10/07/97-11/13/97	2	791.5	791.5	1500.	83.	1003944.5	1001.97	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	10/07/97-11/13/97	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	10/07/97-01/06/98	4	18.5	87.	307.	4.	21698.	147.302	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	10/07/97-01/06/98	4	1.06	1.302	2.487	0.602	0.81	0.9	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			20.065								
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/13/97-11/13/97	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
71889	PHOSPHATE, ORTHO, SOLUBLE, AS PO4 (MG/L)	10/07/97-12/04/97	3	0.01	0.012	0.02	0.005	0.	0.008	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	10/07/97-11/13/97	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	10/07/97-01/06/98	4	2.6	4.975	14.	0.7	37.109	6.092	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0152

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	4	0	0.00	1	0	0.00	3	0	0.00						
00406	PH, FIELD	Fresh Chronic	9.	4	0	0.00	1	0	0.00	3	0	0.00						
		Other-Lo Lim.	6.5	4	0	0.00	1	0	0.00	3	0	0.00						
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	3	0	0.00	1	0	0.00	2	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						
01002	ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00				1	0	0.00						
		Drinking Water	50.	1	0	0.00				1	0	0.00						
01027	CADMIUM, TOTAL	Fresh Acute	3.9	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						
01034	CHROMIUM, TOTAL	Drinking Water	100.	2	0	0.00	1	0	0.00	1	0	0.00						
01042	COPPER, TOTAL	Fresh Acute	18.	2	1	0.50	1	0	0.00	1	1	1.00						
		Drinking Water	1300.	2	0	0.00	1	0	0.00	1	0	0.00						
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00				1	0	0.00						
		Drinking Water	15.	1	0	0.00				1	0	0.00						
01067	NICKEL, TOTAL	Fresh Acute	1400.	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	100.	2	0	0.00	1	0	0.00	1	0	0.00						
01077	SILVER, TOTAL	Fresh Acute	4.1	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	100.	2	0	0.00	1	0	0.00	1	0	0.00						
01147	SELENIUM, TOTAL	Fresh Acute	20.	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	50.	2	0	0.00	1	0	0.00	1	0	0.00						
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	Other-Hi Lim.	200.	4	1	0.25	1	1	1.00	3	0	0.00						
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	0 &	0	0.00												
71900	MERCURY, TOTAL	Fresh Acute	2.4	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	2.	2	0	0.00	1	0	0.00	1	0	0.00						
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	4	0	0.00	1	0	0.00	3	0	0.00						

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

Station Inventory for Station: WHIS0153

NPS Station ID: WHIS0153 | LAT/LON: 40.660309/-122.627254 | Agency: 11NPSWRD | Date Created: 04/10/99
Location: POINT BELOW TOWER HOUSE | FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): WHIS_NPS_25
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 | Depth of Water: 0 | Aquifer:
Major Basin: CALIFORNIA | Elevation: 0 | Water Body Id:
Minor Basin: SACRAMENTO RIVER | ECO Region:
RF1 Index: 18020112 | RF1 Mile Point: 0.000 | Distance from RF1: 0.80 | On/Off RF1:
RF3 Index: 18010211001600.95 | RF3 Mile Point: 5.98 | Distance from RF3: 0.04 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE FRENCH GULCH CA-SHASTA CO. 7.5' SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE WAS DESCRIBED BY THE NPS AS "POINT BELOW BOWER (SIC) HOUSE" (IT SHOULD BE "POINT BELOW TOWER HOUSE"). THE SITE IS WITHIN THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA WERE FROM MISCELLANEOUS PAPERS IN A BROWN FOLDER LABELED "WATER QUALITY." THE FOLDER WAS FROM THE PARK. THE LOCATION OF THE STATION WAS ESTIMATED USING SITE DESCRIPTIONS. LATITUDE AND LONGITUDE VALUES WERE OBTAINED BY DIGITIZING A POINT MARKED ON A QUADRANGLE. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; PO BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NPS WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0153

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00070	TURBIDITY, (JACKSON CANDLE UNITS)	06/05/75-06/05/75	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	06/05/75-06/05/75	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	06/05/75-06/05/75	1	1.09	1.09	1.09	1.09	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	06/05/75-06/05/75	1	0.14	0.14	0.14	0.14	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/05/75-06/05/75	1	40.	40.	40.	40.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	06/05/75-06/05/75	1	5.	5.	5.	5.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	06/05/75-06/05/75	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	06/05/75-06/05/75	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	06/05/75-06/05/75	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0153

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	1	0	0.00	1	0	0.00									
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00	1	0	0.00									

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

EPA Water Quality Criteria Analysis for Station: WHIS0153

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
01042 COPPER, TOTAL	Fresh Acute	18.	1	0	0.00	1	0	0.00									
	Drinking Water	1300.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: WHIS0154

NPS Station ID: WHIS0154 | LAT/LON: 40.660559/-122.628337 | Agency: 21CAL-1 | Date Created: 01/13/78
Location: CLEAR CR AB WHISKEYTOWN RES | FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): A3620080 /5246301
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 | Depth of Water: 0 | Aquifer:
Major Basin: CALIFORNIA | Elevation: 0 | Water Body Id:
Minor Basin: SACRAMENTO RIVER | ECO Region:
RF1 Index: 18020112008 | RF1 Mile Point: 3.130 | Distance from RF1: 0.00 | On/Off RF1: OFF
RF3 Index: 18020101000201.12 | RF3 Mile Point: 2.82 | Distance from RF3: 0.02 | On/Off RF3:
Description:
SURFACE WATER STATION; DATA MANAGER CODE: 5; AREAL CODE: ; BEGINNING OF RECORD: . ; ELEVATION: 1230 ;
STATION NAME: CLEAR CR AB WHISKEYTOWN RES ; DWR COUNTY CODE: 45; LATITUDE: 403938; LONGITUDE: 1223742;
CALIFORNIA COORDINATES: NORTH , EAST , ZONE ;
PUBLIC LAND SURVEY LOCATION: TOWNSHIP 32N, RANGE 07, SECTION 02EBASE M;
USGS QUADRANGLE NUMBER: 93 93; DRAINAGE AREA: ; GROUND WATER BASIN: ; NEAREST GAGE: ;
AGENCY-1: , ACODE ; AGENCY-2: , A2CODE ;
REMARKS:

Parameter Inventory for Station: WHIS0154

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/22/77-01/27/81	65	18.9	17.049	27.8	3.9	43.443	6.591	7.8	10.	21.85	23.9
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	05/14/63-03/03/83	4	61.75	60.375	68.	50.	57.563	7.587	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	07/07/77-03/03/83	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00075	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	05/14/63-05/14/63	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/07/77-03/03/83	64	1.	12.359	620.	1.	5978.615	77.322	1.	1.	2.75	5.5
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/07/77-03/03/83	65	142.	173.708	480.	42.	11514.398	107.305	70.	79.	236.	357.4
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/14/63-03/03/83	5	69.	89.	198.	49.	3825.5	61.851	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	06/22/77-08/21/79	61	9.5	9.666	14.	6.9	2.253	1.501	7.58	8.6	10.85	11.7
00400	PH (STANDARD UNITS)	06/22/77-03/03/83	65	7.3	7.565	9.1	6.9	0.275	0.525	7.1	7.2	7.95	8.4
00400	CONVERTED PH (STANDARD UNITS)	06/22/77-03/03/83	65	7.3	7.352	9.1	6.9	0.321	0.567	7.1	7.2	7.95	8.4
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/22/77-03/03/83	65	0.05	0.044	0.126	0.001	0.001	0.033	0.004	0.011	0.063	0.079
00403	PH, LAB, STANDARD UNITS SU	05/14/63-03/03/83	31	7.5	7.661	8.7	7.2	0.158	0.398	7.22	7.4	8.	8.36
00403	CONVERTED PH, LAB, STANDARD UNITS	05/14/63-03/03/83	31	7.5	7.536	8.7	7.2	0.175	0.418	7.22	7.4	8.	8.36
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/14/63-03/03/83	31	0.032	0.029	0.063	0.002	0.	0.018	0.004	0.01	0.04	0.061
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/10/78-01/10/78	1	19.	19.	19.	19.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/08/77-09/14/77	2	0.02	0.02	0.03	0.01	0.	0.014	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	07/08/77-01/10/78	4	0.05	0.045	0.08	0.	0.001	0.034	**	**	**	**
00629	NITROGEN, ORGANIC KJELDAHL, TOTAL (MG/L AS N)	09/14/77-09/14/77	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	01/08/79-03/03/83	3	0.04	0.03	0.05	0.	0.001	0.026	**	**	**	**
00635	NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	08/11/77-03/03/83	6	0.25	1.	4.8	0.2	3.468	1.862	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/14/77-03/03/83	4	0.07	0.418	1.5	0.03	0.522	0.722	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	07/08/77-03/03/83	4	0.005	0.005	0.01	0.	0.	0.006	**	**	**	**

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

Parameter Inventory for Station: WHIS0154

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/14/63-03/03/83	5	26.	29.8	58.	14.	280.2	16.739	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/14/63-03/03/83	4	6.85	8.425	16.	4.	27.323	5.227	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/14/63-03/03/83	4	2.5	2.6	4.4	1.	2.107	1.451	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	06/22/77-03/03/83	4	3.	6.025	16.	2.1	44.403	6.664	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	06/22/77-03/03/83	3	0.7	0.667	1.	0.3	0.123	0.351	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	05/14/63-03/03/83	7	1.	4.514	23.	0.6	67.118	8.193	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	06/22/77-06/22/77	1	12.	12.	12.	12.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	06/22/77-03/03/83	3	0.	0.	0.	0.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	08/11/77-08/11/77	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	08/11/77-08/11/77	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	08/11/77-08/11/77	1	90.	90.	90.	90.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	08/11/77-08/11/77	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	08/11/77-08/11/77	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	08/11/77-08/11/77	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	05/14/63-03/03/83	20	43.5	39.	50.	16.	90.211	9.498	24.3	30.25	45.75	47.
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	06/22/77-06/22/77	1	125.	125.	125.	125.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	06/22/77-06/22/77	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: WHIS0154

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------6/01-11/09---------- Obs	Exceed	Prop.	----------11/10-2/20---------- Obs	Exceed	Prop.	----------2/21-5/31---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	64	1	0.02	44	0	0.00	7	0	0.00	13	1	0.08			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	61	0	0.00	46	0	0.00	3	0	0.00	12	0	0.00			
00400	PH	Fresh Chronic	9.	65	1	0.02	46	1	0.02	6	0	0.00	13	0	0.00			
		Other-Lo Lim.	6.5	65	0	0.00	46	0	0.00	6	0	0.00	13	0	0.00			
00403	PH, LAB	Fresh Chronic	9.	31	0	0.00	20	0	0.00	2	0	0.00	9	0	0.00			
		Other-Lo Lim.	6.5	31	0	0.00	20	0	0.00	2	0	0.00	9	0	0.00			
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	4	0	0.00	3	0	0.00	1	0	0.00						
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	3	0	0.00				2	0	0.00	1	0	0.00			
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	250.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	1	0	0.00	1	0	0.00									
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1	0	0.00	1	0	0.00									
		Drinking Water	5.	1	0	0.00	1	0	0.00									
01042	COPPER, TOTAL	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00	1	0	0.00									
		Drinking Water	15.	1	0	0.00	1	0	0.00									
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
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

Seasonal Analysis for Season #1: 6/01 to 11/09 - Station WHIS0154

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403p	PH, LAB, STANDARD UNITS SU	05/14/63-03/03/83	20	7.6	7.71	8.7	7.2	0.199	0.446	7.2	7.4	8.	8.56
00403p	CONVERTED PH, LAB, STANDARD UNITS	05/14/63-03/03/83	20	7.6	7.548	8.7	7.2	0.226	0.476	7.2	7.4	8.	8.56
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/14/63-03/03/83	20	0.025	0.028	0.063	0.002	0.	0.02	0.003	0.01	0.04	0.063

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

Seasonal Analysis for Season #2: 11/10 to 2/20 - Station WHIS0154

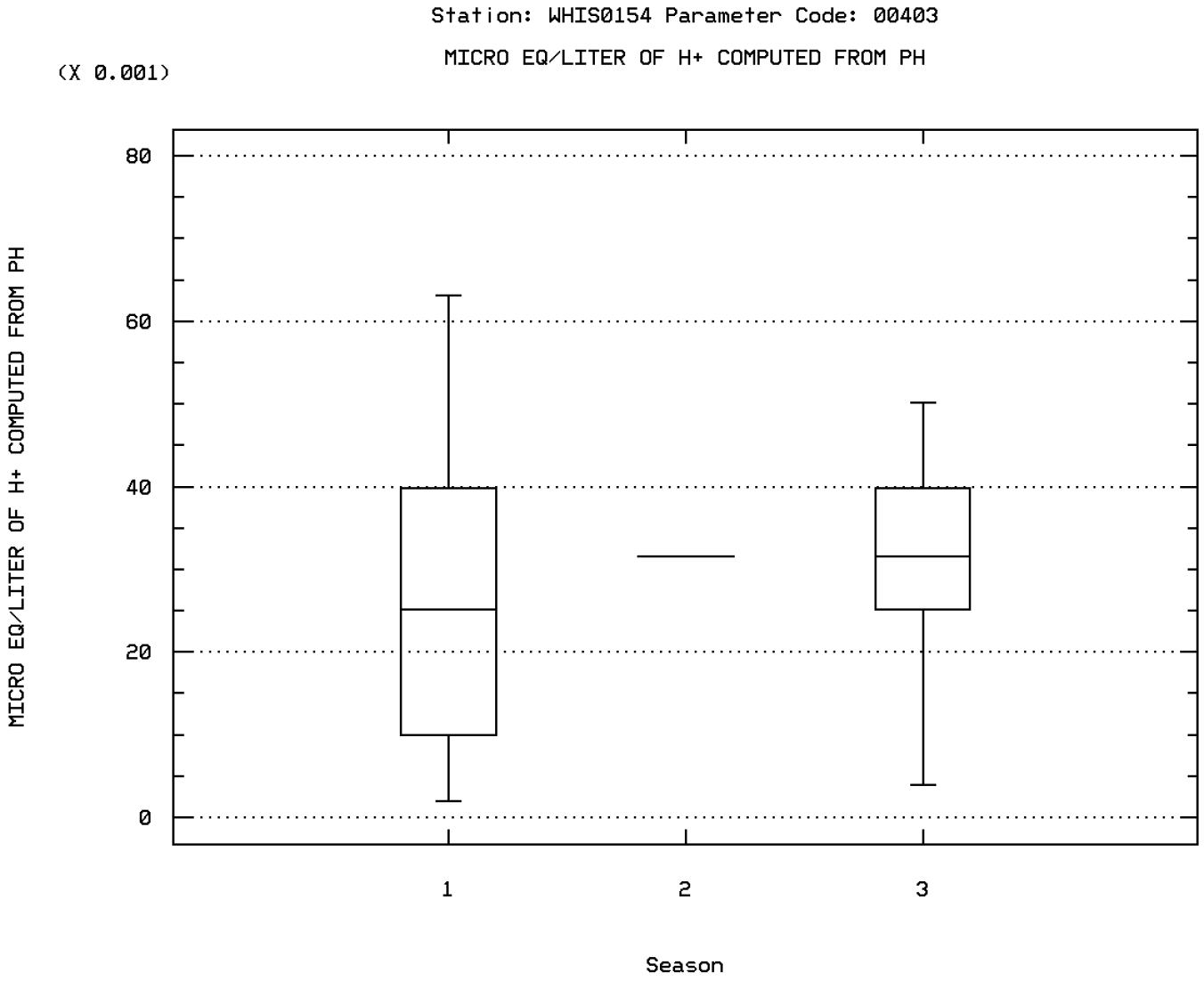
Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403p	PH, LAB, STANDARD UNITS SU	05/14/63-03/03/83	2	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00403p	CONVERTED PH, LAB, STANDARD UNITS	05/14/63-03/03/83	2	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/14/63-03/03/83	2	0.032	0.032	0.032	0.032	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed 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: 2/21 to 5/31 - Station WHIS0154

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403p	PH, LAB, STANDARD UNITS SU	05/14/63-03/03/83	9	7.5	7.589	8.4	7.3	0.104	0.322	7.3	7.4	7.6	8.4
00403p	CONVERTED PH, LAB, STANDARD UNITS	05/14/63-03/03/83	9	7.5	7.519	8.4	7.3	0.109	0.33	7.3	7.4	7.6	8.4
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/14/63-03/03/83	9	0.032	0.03	0.05	0.004	0.	0.013	0.004	0.025	0.04	0.05

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



CLEAR CR AB WHISKEYTOWN RES

Station Inventory for Station: WHIS0155

NPS Station ID: WHIS0155
LAT/LON: 40.661698/-122.578559
Agency: 11NPSWRD
Date Created: 05/23/98
Location: NORTH STAR MINE
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM/MINE
STORET Station ID(s): WHIS_NPS_NSM
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112
Depth of Water: 0
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112
RF1 Mile Point: 0.000
Distance from RF1: 0.80
On/Off RF1:
RF3 Index: 18010211001600.95
RF3 Mile Point: 5.98
Distance from RF3: 0.04
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE WHISKEYTOWN CA-SHASTA COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS LOCATED AT THE NORTH STAR MINE INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA ARE FROM AN ANALYTICAL REPORT IN THE WHISKEYTOWN UNIT PARK FILES (N3617-WATER TESTS FOR MINES). FOR MORE INFORMATION ON THE WHISKEYTOWN UNIT OF THE PARK CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA: P.O. BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). THE DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0155

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00340	COD, .25N K2CR2O7 MG/L	07/19/90-07/19/90	1 ##	3.5	3.5	3.5	3.5	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/19/90-07/19/90	1	8.52	8.52	8.52	8.52	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/19/90-07/19/90	1	8.52	8.52	8.52	8.52	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/19/90-07/19/90	1	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	07/19/90-07/19/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	07/19/90-07/19/90	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	07/19/90-07/19/90	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: WHIS0155

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1	0	0.00	1	0	0.00									
		Drinking Water	5.	1	0	0.00	1	0	0.00									
01042	COPPER, TOTAL	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: WHIS0156

NPS Station ID: WHIS0156
LAT/LON: 40.662504/-122.511949
Agency: 11TOX09
Date Created: 10/13/84
Location: SLICKROCK CK AT ELEVATION 1980 FT
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM/MINE
STORET Station ID(s): IRONMT-612 /SLICKROCK612
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 18020112
Depth of Water: 999
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO
ECO Region:
RF1 Index: 18020112003
RF1 Mile Point: 3.900
Distance from RF1: 10.20
On/Off RF1: OFF
RF3 Index: 18020112011800.00
RF3 Mile Point: 1.12
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: WHIS0156

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/13/84-06/13/84	1	22.5	22.5	22.5	22.5	0.	0.	**	**	**	**
00058	FLOW, RATE GALLONS/MIN	06/13/84-06/13/84	1	0.76	0.76	0.76	0.76	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/13/84-06/13/84	1	2700.	2700.	2700.	2700.	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/13/84-06/13/84	1	50.	50.	50.	50.	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	06/13/84-06/13/84	1	119000.	119000.	119000.	119000.	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	06/13/84-06/13/84	1	5510.	5510.	5510.	5510.	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	06/13/84-06/13/84	1	300.	300.	300.	300.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/13/84-06/13/84	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	06/13/84-06/13/84	1	2000.	2000.	2000.	2000.	0.	0.	**	**	**	**
00956	SILICA, TOTAL (MG/L AS SI02)	06/13/84-06/13/84	1	3.3	3.3	3.3	3.3	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	06/13/84-06/13/84	1	21.	21.	21.	21.	0.	0.	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	06/13/84-06/13/84	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	06/13/84-06/13/84	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	06/13/84-06/13/84	1	144.	144.	144.	144.	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	06/13/84-06/13/84	1	22.	22.	22.	22.	0.	0.	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	06/13/84-06/13/84	1	166.	166.	166.	166.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	06/13/84-06/13/84	1	17100.	17100.	17100.	17100.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	06/13/84-06/13/84	1	271000.	271000.	271000.	271000.	0.	0.	**	**	**	**
01047	IRON, FERROUS (UG/L AS FE)	06/13/84-06/13/84	1	85.	85.	85.	85.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	06/13/84-06/13/84	1	12.	12.	12.	12.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	06/13/84-06/13/84	1	4580.	4580.	4580.	4580.	0.	0.	**	**	**	**
01059	THALLIUM, TOTAL (UG/L AS TL)	06/13/84-06/13/84	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	06/13/84-06/13/84	1	54.	54.	54.	54.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	06/13/84-06/13/84	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01087	VANADIUM, TOTAL (UG/L AS V)	06/13/84-06/13/84	1	22.	22.	22.	22.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	06/13/84-06/13/84	1	16900.	16900.	16900.	16900.	0.	0.	**	**	**	**
01097	ANTIMONY, TOTAL (UG/L AS SB)	06/13/84-06/13/84	1 ##	3.	3.	3.	3.	0.	0.	**	**	**	**
01102	TIN, TOTAL (UG/L AS SN)	06/13/84-06/13/84	1 ##	100.	100.	100.	100.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	06/13/84-06/13/84	1	174000.	174000.	174000.	174000.	0.	0.	**	**	**	**
01171	PLATINUM,WHOLE WATER SAMPLE,UG/L	06/13/84-06/13/84	1	22.	22.	22.	22.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	06/13/84-06/13/84	1	3130.	3130.	3130.	3130.	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	06/13/84-06/13/84	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
71910	GOLD, TOTAL (UG/L AS AU)	06/13/84-06/13/84	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
82032	CALCIUM - TOTAL UG/L (AS CA)	06/13/84-06/13/84	1	37800.	37800.	37800.	37800.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0156

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a 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									
01002	ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
01007	BARIUM, TOTAL	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	1	0	0.00	1	0	0.00									
		Drinking Water	4.	1	0	0.00	1	0	0.00									
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1	1	1.00	1	1	1.00									
		Drinking Water	5.	1	1	1.00	1	1	1.00									
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00	1	0	0.00									
01042	COPPER, TOTAL	Fresh Acute	18.	1	1	1.00	1	1	1.00									
		Drinking Water	1300.	1	1	1.00	1	1	1.00									
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00	1	0	0.00									
		Drinking Water	15.	1	0	0.00	1	0	0.00									
01059	THALLIUM, TOTAL	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01077	SILVER, TOTAL	Fresh Acute	4.1	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01092	ZINC, TOTAL	Fresh Acute	120.	1	1	1.00	1	1	1.00									
		Drinking Water	5000.	1	1	1.00	1	1	1.00									
01097	ANTIMONY, TOTAL	Fresh Acute	88.	1	0	0.00	1	0	0.00									
		Drinking Water	6.	1	0	0.00	1	0	0.00									
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: WHIS0157

NPS Station ID: WHIS0157
LAT/LON: 40.663476/-122.634948
Agency: 11NPSWRD
Date Created: 05/30/98
Location: WILLOW CREEK AT MOUTH
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): WHIS_CDWR_08
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112
Depth of Water: 0
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112
RF1 Mile Point: 0.000
Distance from RF1: 0.80
On/Off RF1:
RF3 Index: 18010211001600.95
RF3 Mile Point: 5.98
Distance from RF3: 0.04
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE FRENCH GULCH CALIFORNIA 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS DESCRIBED BY THE CALIFORNIA DEPARTMENT OF WATER RESOURCES (CDWR) AS "WILLOW CREEK AT MOUTH" AND IS LOCATED INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA ARE FROM THE CDWR'S DATABASE AND ARE RELATED TO A STUDY OF THE CLEAR CREEK BASIN. THE STUDY BEGAN IN 1997 AND WILL CONTINUE FOR SEVERAL YEARS. FOR MORE INFORMATION ON THE DATA CONTACT THE CDWR; NORTHERN DIVISION: 2440 MAIN ST.; RED BLUFF CALIFORNIA 96080 (TEL 916-529-7300). FOR MORE INFORMATION ON THE WHISKEYTOWN UNIT OF THE PARK CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA: P.O. BOX 188; WHISKEYTOWN CALIFORNIA 96095 (TEL 916-241-6584). THE DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0157

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/97-01/06/98	4	8.95	8.275	12.2	3.	15.089	3.884	**	**	**	**
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	10/07/97-01/06/98	4	48.1	46.9	54.	37.4	48.973	6.998	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/07/97-01/06/98	4	228.5	242.	368.	143.	13000.667	114.02	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/07/97-01/06/98	4	224.5	237.5	361.	140.	12065.667	109.844	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	10/07/97-01/06/98	4	10.95	11.25	13.2	9.9	2.217	1.489	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	10/07/97-01/06/98	4	7.35	7.4	7.6	7.3	0.02	0.141	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	10/07/97-01/06/98	4	7.347	7.384	7.6	7.3	0.02	0.143	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/07/97-01/06/98	4	0.045	0.041	0.05	0.025	0.	0.012	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/07/97-01/06/98	5	40.	40.2	48.	35.	23.2	4.817	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	10/07/97-12/04/97	3	0.05	0.05	0.06	0.04	0.	0.01	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/07/97-12/04/97	3	0.04	0.033	0.04	0.02	0.	0.012	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/07/97-12/04/97	3 ##	0.1	0.073	0.1	0.02	0.002	0.046	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/13/97-11/13/97	1	74.	74.	74.	74.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/13/97-11/13/97	1	23.	23.	23.	23.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/13/97-11/13/97	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	11/13/97-11/13/97	1	28.	28.	28.	28.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/13/97-11/13/97	1	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	11/13/97-11/13/97	1	50.	50.	50.	50.	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	11/13/97-11/13/97	1	16.	16.	16.	16.	0.	0.	**	**	**	**

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

Parameter Inventory for Station: WHIS0157

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01002	ARSENIC, TOTAL (UG/L AS AS)	10/07/97-11/13/97	1	8.	8.	8.	8.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	10/07/97-11/13/97	2 ##	1.25	1.25	2.	0.5	1.125	1.061	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	10/07/97-11/13/97	2 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	10/07/97-11/13/97	2	232.5	232.5	430.	35.	78012.5	279.307	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	10/07/97-11/13/97	2	4216.5	4216.5	7860.	573.	26550184.5	5152.687	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	10/07/97-11/13/97	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/07/97-11/13/97	2	172.	172.	320.	24.	43808.	209.304	**	**	**	**
01062	MOLYBDENUM, TOTAL (UG/L AS MO)	10/07/97-11/13/97	1	516.	516.	516.	516.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	10/07/97-11/13/97	2 ##	2.25	2.25	4.	0.5	6.125	2.475	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	10/07/97-11/13/97	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	10/07/97-11/13/97	2	1792.	1792.	3410.	174.	5235848.	2288.198	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	10/07/97-11/13/97	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/13/97-11/13/97	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
71889	PHOSPHATE, ORTHO, SOLUBLE, AS PO4 (MG/L)	10/07/97-12/04/97	3 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	10/07/97-11/13/97	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	10/07/97-01/06/98	4	2.05	6.875	22.	1.4	101.903	10.095	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0157

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	4	0	0.00	1	0	0.00	3	0	0.00						
00406	PH, FIELD	Fresh Chronic	9.	4	0	0.00	1	0	0.00	3	0	0.00						
		Other-Lo Lim.	6.5	4	0	0.00	1	0	0.00	3	0	0.00						
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	3	0	0.00	1	0	0.00	2	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						
01002	ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00				1	0	0.00						
		Drinking Water	50.	1	0	0.00				1	0	0.00						
01027	CADMIUM, TOTAL	Fresh Acute	3.9	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						
01034	CHROMIUM, TOTAL	Drinking Water	100.	2	0	0.00	1	0	0.00	1	0	0.00						
01042	COPPER, TOTAL	Fresh Acute	18.	2	2	1.00	1	1	1.00	1	1	1.00						
		Drinking Water	1300.	2	0	0.00	1	0	0.00	1	0	0.00						
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00				1	0	0.00						
		Drinking Water	15.	1	0	0.00				1	0	0.00						
01067	NICKEL, TOTAL	Fresh Acute	1400.	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	100.	2	0	0.00	1	0	0.00	1	0	0.00						
01077	SILVER, TOTAL	Fresh Acute	4.1	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	100.	2	0	0.00	1	0	0.00	1	0	0.00						
01147	SELENIUM, TOTAL	Fresh Acute	20.	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	50.	2	0	0.00	1	0	0.00	1	0	0.00						
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	0 &	0	0.00												
71900	MERCURY, TOTAL	Fresh Acute	2.4	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	2.	2	0	0.00	1	0	0.00	1	0	0.00						
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	4	0	0.00	1	0	0.00	3	0	0.00						

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

Station Inventory for Station: WHIS0158

NPS Station ID: WHIS0158
LAT/LON: 40.664170/-122.635698
Agency: 11NPSWRD
Date Created: 04/10/99
Location: WILLOW CREEK; TOWER HOUSE AREA
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): WHIS_NPS_21
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112
Depth of Water: 0
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112
RF1 Mile Point: 0.000
Distance from RF1: 0.80
On/Off RF1:
RF3 Index: 18010211001600.95
RF3 Mile Point: 5.98
Distance from RF3: 0.04
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE FRENCH GULCH CA 7.5' SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE WAS DESCRIBED BY THE NPS AS "WILLOW CREEK; TOWER HOUSE AREA" INSIDE OF THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA WERE FROM MISCELLANEOUS PAPERS IN A BROWN FOLDER LABELED "WATER QUALITY." THE FOLDER WAS FROM THE PARK. THE LOCATION OF THE STATION WAS ESTIMATED USING SITE DESCRIPTIONS. LATITUDE AND LONGITUDE VALUES WERE OBTAINED BY DIGITIZING A POINT MARKED ON A QUADRANGLE. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; PO BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NPS WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0158

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400	PH (STANDARD UNITS)	09/20/80-09/10/81	5	7.2	7.1	8.1	6.	0.68	0.825	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/20/80-09/10/81	5	7.2	6.569	8.1	6.	1.032	1.016	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/20/80-09/10/81	5	0.063	0.269	1.	0.008	0.176	0.42	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0158

			Total	Exceed	Prop.	----------6/01-11/09----------			----------11/10-2/20----------			----------2/21-5/31----------			----------n/a----------		
Parameter	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400 PH	Fresh Chronic	9.	5	0	0.00	2	0	0.00	2	0	0.00	1	0	0.00			
	Other-Lo Lim.	6.5	5	1	0.20	2	0	0.00	2	1	0.50	1	0	0.00			

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

Station Inventory for Station: WHIS0159

NPS Station ID: WHIS0159
LAT/LON: 40.665282/-122.517503
Agency: 11TOX09
Date Created: 10/20/84
Location: SLICKROCK CK BL CONCRETE FOUNDATION AT IRON MT
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM/MINE
STORET Station ID(s): IRONMT-65 /SLICKROCK-65
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 18020112
Depth of Water: 999
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112
RF1 Mile Point: 0.000
Distance from RF1: 13.70
On/Off RF1:
RF3 Index: 18020112011801.47
RF3 Mile Point: 1.54
Distance from RF3: 0.06
On/Off RF3:
Description:

Parameter Inventory for Station: WHIS0159

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: WHIS0160

NPS Station ID: WHIS0160
LAT/LON: 40.665837/-122.514448
Agency: 11TOX09
Date Created: 10/13/84
Location: SLICKROCK CK AT ELEVATION 2100 FT
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM/MINE
STORET Station ID(s): IRONMT-611 /SLICKROCK611
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 18020112
Depth of Water: 999
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112
RF1 Mile Point: 0.000
Distance from RF1: 11.80
On/Off RF1:
RF3 Index: 18020112011800.00
RF3 Mile Point: 2.43
Distance from RF3: 0.03
On/Off RF3:
Description:

Parameter Inventory for Station: WHIS0160

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/13/84-06/13/84	1	22.5	22.5	22.5	22.5	0.	0.	**	**	**	**
00058	FLOW, RATE GALLONS/MIN	06/13/84-06/13/84	1	0.64	0.64	0.64	0.64	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/13/84-06/13/84	1	2600.	2600.	2600.	2600.	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/13/84-06/13/84	1	65.	65.	65.	65.	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	06/13/84-06/13/84	1	125000.	125000.	125000.	125000.	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	06/13/84-06/13/84	1	5540.	5540.	5540.	5540.	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	06/13/84-06/13/84	1 ##	100.	100.	100.	100.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/13/84-06/13/84	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	06/13/84-06/13/84	1	2300.	2300.	2300.	2300.	0.	0.	**	**	**	**
00956	SILICA, TOTAL (MG/L AS SI02)	06/13/84-06/13/84	1	1.2	1.2	1.2	1.2	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	06/13/84-06/13/84	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	06/13/84-06/13/84	1	11.	11.	11.	11.	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	06/13/84-06/13/84	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	06/13/84-06/13/84	1	190.	190.	190.	190.	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	06/13/84-06/13/84	1	25.	25.	25.	25.	0.	0.	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	06/13/84-06/13/84	1	171.	171.	171.	171.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	06/13/84-06/13/84	1	17900.	17900.	17900.	17900.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	06/13/84-06/13/84	1	312000.	312000.	312000.	312000.	0.	0.	**	**	**	**
01047	IRON, FERROUS (UG/L AS FE)	06/13/84-06/13/84	1	151.	151.	151.	151.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	06/13/84-06/13/84	1	13.	13.	13.	13.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	06/13/84-06/13/84	1	4810.	4810.	4810.	4810.	0.	0.	**	**	**	**
01059	THALLIUM, TOTAL (UG/L AS TL)	06/13/84-06/13/84	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	06/13/84-06/13/84	1	63.	63.	63.	63.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	06/13/84-06/13/84	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01087	VANADIUM, TOTAL (UG/L AS V)	06/13/84-06/13/84	1	26.	26.	26.	26.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	06/13/84-06/13/84	1	17900.	17900.	17900.	17900.	0.	0.	**	**	**	**
01097	ANTIMONY, TOTAL (UG/L AS SB)	06/13/84-06/13/84	1 ##	3.	3.	3.	3.	0.	0.	**	**	**	**
01102	TIN, TOTAL (UG/L AS SN)	06/13/84-06/13/84	1 ##	100.	100.	100.	100.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	06/13/84-06/13/84	1	182000.	182000.	182000.	182000.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	06/13/84-06/13/84	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01171	PLATINUM,WHOLE WATER SAMPLE,UG/L	06/13/84-06/13/84	1	11.	11.	11.	11.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	06/13/84-06/13/84	1	3360.	3360.	3360.	3360.	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	06/13/84-06/13/84	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
71910	GOLD, TOTAL (UG/L AS AU)	06/13/84-06/13/84	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
82032	CALCIUM - TOTAL UG/L (AS CA)	06/13/84-06/13/84	1	39100.	39100.	39100.	39100.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0160

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a 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									
01002	ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
01007	BARIUM, TOTAL	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	1	0	0.00	1	0	0.00									
		Drinking Water	4.	1	0	0.00	1	0	0.00									
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1	1	1.00	1	1	1.00									
		Drinking Water	5.	1	1	1.00	1	1	1.00									
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00	1	0	0.00									
01042	COPPER, TOTAL	Fresh Acute	18.	1	1	1.00	1	1	1.00									
		Drinking Water	1300.	1	1	1.00	1	1	1.00									
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00	1	0	0.00									
		Drinking Water	15.	1	0	0.00	1	0	0.00									
01059	THALLIUM, TOTAL	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01077	SILVER, TOTAL	Fresh Acute	4.1	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01092	ZINC, TOTAL	Fresh Acute	120.	1	1	1.00	1	1	1.00									
		Drinking Water	5000.	1	1	1.00	1	1	1.00									
01097	ANTIMONY, TOTAL	Fresh Acute	88.	1	0	0.00	1	0	0.00									
		Drinking Water	6.	1	0	0.00	1	0	0.00									
01147	SELENIUM, TOTAL	Fresh Acute	20.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: WHIS0161

NPS Station ID: WHIS0161
LAT/LON: 40.665837/-122.517782
Agency: 11TOX09
Date Created: 10/13/84
Location: SLICKROCK CK AT ELEVATION 2170 FT
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM/MINE
STORET Station ID(s): IRONMT-610 /SLICKROCK610
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 18020112
Depth of Water: 999
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112
RF1 Mile Point: 0.000
Distance from RF1: 2.70
On/Off RF1:
RF3 Index: 18020112000500.01
RF3 Mile Point: 0.00
Distance from RF3: 0.05
On/Off RF3:
Description:

Parameter Inventory for Station: WHIS0161

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00058	FLOW, RATE GALLONS/MIN	06/13/84-06/13/84	1	5.65	5.65	5.65	5.65	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/13/84-06/13/84	1	2948.	2948.	2948.	2948.	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/13/84-06/13/84	1	77.	77.	77.	77.	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	06/13/84-06/13/84	1	130000.	130000.	130000.	130000.	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	06/13/84-06/13/84	1	5480.	5480.	5480.	5480.	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	06/13/84-06/13/84	1	4100.	4100.	4100.	4100.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/13/84-06/13/84	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	06/13/84-06/13/84	1	2370.	2370.	2370.	2370.	0.	0.	**	**	**	**
00956	SILICA, TOTAL (MG/L AS SI02)	06/13/84-06/13/84	1	3.6	3.6	3.6	3.6	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	06/13/84-06/13/84	1	19.	19.	19.	19.	0.	0.	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	06/13/84-06/13/84	1	11.	11.	11.	11.	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	06/13/84-06/13/84	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	06/13/84-06/13/84	1	170.	170.	170.	170.	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	06/13/84-06/13/84	1	27.	27.	27.	27.	0.	0.	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	06/13/84-06/13/84	1	177.	177.	177.	177.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	06/13/84-06/13/84	1	18600.	18600.	18600.	18600.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	06/13/84-06/13/84	1	336000.	336000.	336000.	336000.	0.	0.	**	**	**	**
01047	IRON, FERROUS (UG/L AS FE)	06/13/84-06/13/84	1	188.	188.	188.	188.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	06/13/84-06/13/84	1	12.	12.	12.	12.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	06/13/84-06/13/84	1	5010.	5010.	5010.	5010.	0.	0.	**	**	**	**
01059	THALLIUM, TOTAL (UG/L AS TL)	06/13/84-06/13/84	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	06/13/84-06/13/84	1	50.	50.	50.	50.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	06/13/84-06/13/84	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01087	VANADIUM, TOTAL (UG/L AS V)	06/13/84-06/13/84	1	26.	26.	26.	26.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	06/13/84-06/13/84	1	18500.	18500.	18500.	18500.	0.	0.	**	**	**	**
01097	ANTIMONY, TOTAL (UG/L AS SB)	06/13/84-06/13/84	1 ##	3.	3.	3.	3.	0.	0.	**	**	**	**
01102	TIN, TOTAL (UG/L AS SN)	06/13/84-06/13/84	1 ##	100.	100.	100.	100.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	06/13/84-06/13/84	1	190000.	190000.	190000.	190000.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	06/13/84-06/13/84	1	7.	7.	7.	7.	0.	0.	**	**	**	**
01171	PLATINUM,WHOLE WATER SAMPLE,UG/L	06/13/84-06/13/84	1	18.	18.	18.	18.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	06/13/84-06/13/84	1	3570.	3570.	3570.	3570.	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	06/13/84-06/13/84	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
71910	GOLD, TOTAL (UG/L AS AU)	06/13/84-06/13/84	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
82032	CALCIUM - TOTAL UG/L (AS CA)	06/13/84-06/13/84	1	40200.	40200.	40200.	40200.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0161

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a 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									
01002	ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
01007	BARIUM, TOTAL	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	1	0	0.00	1	0	0.00									
		Drinking Water	4.	1	0	0.00	1	0	0.00									
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1	1	1.00	1	1	1.00									
		Drinking Water	5.	1	1	1.00	1	1	1.00									
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00	1	0	0.00									
01042	COPPER, TOTAL	Fresh Acute	18.	1	1	1.00	1	1	1.00									
		Drinking Water	1300.	1	1	1.00	1	1	1.00									
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00	1	0	0.00									
		Drinking Water	15.	1	0	0.00	1	0	0.00									
01059	THALLIUM, TOTAL	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01077	SILVER, TOTAL	Fresh Acute	4.1	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01092	ZINC, TOTAL	Fresh Acute	120.	1	1	1.00	1	1	1.00									
		Drinking Water	5000.	1	1	1.00	1	1	1.00									
01097	ANTIMONY, TOTAL	Fresh Acute	88.	1	0	0.00	1	0	0.00									
		Drinking Water	6.	1	0	0.00	1	0	0.00									
01147	SELENIUM, TOTAL	Fresh Acute	20.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: WHIS0162

NPS Station ID: WHIS0162
LAT/LON: 40.666892/-122.646309
Agency: 11NPSWRD
Date Created: 05/23/98
Location: CRYSTAL CREEK
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): WHIS_NPS_13
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112
Depth of Water: 0
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112
RF1 Mile Point: 0.000
Distance from RF1: 0.80
On/Off RF1:
RF3 Index: 18010211001600.95
RF3 Mile Point: 5.98
Distance from RF3: 0.04
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE FRENCH GULCH CA 7.5' SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE WAS DESCRIBED BY THE NPS AS "CRYSTAL CREEK" AND WAS LOCATED ON CRYSTAL CREEK SEVERAL HUNDRED FEET UPSTREAM OF THE CONFLUENCE OF CRYSTAL CREEK AND WILLOW CREEK INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA WERE COLLECTED FROM APPROXIMATELY 1973 UNTIL 1980 BY PARK PERSONNEL FOR FOURTEEN TOTAL LOCATIONS. THE DATA FOR EACH LOCATION WERE IN SEPARATELY BOUND FILES. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; PO BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NPS WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0162

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-07/11/80	91	10.	10.23	23.	1.	24.44	4.944	4.52	6.	14.	17.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-07/11/80	91	19.	19.179	40.	5.	65.337	8.083	9.	13.	25.	29.88
00032	CLOUD COVER (PERCENT)	07/11/80-07/11/80	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00035	WIND VELOCITY (MILES PER HOUR)	07/11/80-07/11/80	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00045	PRECIPITATION, TOTAL (INCHES PER DAY)	07/11/80-07/11/80	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/01/73-07/11/80	78	9.	22.844	131.	0.8	761.493	27.595	4.	6.	29.5	67.1
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-07/11/80	92	3.	7.361	85.	0.	210.627	14.513	0.	0.	8.	15.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-07/11/80	82	70.	68.378	175.	34.	454.757	21.325	41.9	51.5	80.	85.7
00300	OXYGEN, DISSOLVED MG/L	03/02/73-07/11/80	91	11.1	11.303	15.	8.5	2.035	1.427	9.5	10.2	12.5	13.18
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-07/11/80	92	0.3	0.715	7.	0.	2.036	1.427	0.05	0.2	0.4	1.85
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/04/74-08/14/76	30	2.195	2.324	5.5	0.15	1.406	1.186	1.018	1.388	2.9	4.132
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	07/03/73-08/14/76	46	0.08	0.167	2.3	0.	0.158	0.398	0.02	0.03	0.123	0.21
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/73-07/11/80	92	25.	25.859	60.	10.	102.386	10.119	15.	20.	30.	40.

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

EPA Water Quality Criteria Analysis for Station: WHIS0162

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	92	3	0.03	42	1	0.02	25	2	0.08	25	0	0.00			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	91	0	0.00	42	0	0.00	24	0	0.00	25	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	92	0	0.00	42	0	0.00	25	0	0.00	25	0	0.00			

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

Annual Analysis for 1973 - Station WHIS0162

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-07/11/80	21	10.	10.381	17.2	5.	16.116	4.014	5.6	7.25	13.9	16.7
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-07/11/80	21	18.	18.419	34.4	5.6	50.747	7.124	8.64	13.05	23.3	27.8
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/01/73-07/11/80	16	13.	33.5	131.	5.	1384.133	37.204	5.	6.	62.	97.4
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-07/11/80	21	5.	10.762	60.	0.	203.89	14.279	0.	2.	15.	32.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-07/11/80	16	54.5	57.063	79.	34.	294.596	17.164	34.	41.	74.	78.3
00300	OXYGEN, DISSOLVED MG/L	03/02/73-07/11/80	20	11.35	11.86	15.	9.2	2.887	1.699	9.73	10.475	13.75	14.
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-07/11/80	21	0.06	1.987	7.	0.	6.914	2.63	0.012	0.025	4.	6.8
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/73-07/11/80	21	20.	20.714	35.	10.	48.214	6.944	10.	15.	25.	30.

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

Annual Analysis for 1974 - Station WHIS0162

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-07/11/80	13	8.	9.323	16.	5.	15.324	3.915	5.	5.5	13.	15.6
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-07/11/80	13	14.	16.685	28.	6.	56.393	7.51	6.4	10.7	23.75	27.6
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/01/73-07/11/80	11	13.	37.	103.	5.	1503.	38.769	5.2	6.	68.	101.8
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-07/11/80	14	3.	8.571	85.	0.	492.725	22.197	0.	0.	5.	47.5
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-07/11/80	13	56.	60.692	88.	38.	284.397	16.864	39.2	48.	78.5	86.4
00300	OXYGEN, DISSOLVED MG/L	03/02/73-07/11/80	14	11.4	11.336	13.2	9.9	0.921	0.96	10.	10.5	11.975	12.85
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-07/11/80	14	0.275	0.293	0.5	0.1	0.014	0.119	0.15	0.2	0.4	0.5
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/73-07/11/80	14	20.	21.429	30.	10.	40.11	6.333	12.5	15.	26.25	30.

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Annual Analysis for 1975 - Station WHIS0162

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-07/11/80	12	8.	8.75	17.	3.	24.386	4.938	3.3	4.25	14.	16.4
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-07/11/80	12	19.	17.	28.	5.	54.364	7.373	5.9	10.25	23.75	26.8
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/01/73-07/11/80	12	12.	29.083	82.	5.	804.992	28.372	5.6	9.	55.5	79.6
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-07/11/80	12	5.	5.433	10.	2.	7.235	2.69	2.06	3.25	8.	9.7
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-07/11/80	9	75.	68.222	82.	39.	210.694	14.515	39.	59.	75.	82.
00300	OXYGEN, DISSOLVED MG/L	03/02/73-07/11/80	12	12.3	11.525	12.9	9.5	2.046	1.43	9.5	9.825	12.775	12.9
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-07/11/80	12	0.3	0.329	0.45	0.2	0.006	0.078	0.215	0.3	0.4	0.45
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/73-07/11/80	12	27.5	26.667	50.	10.	137.879	11.742	10.	20.	33.75	47.

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

Annual Analysis for 1976 - Station WHIS0162

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-07/11/80	12	10.	10.167	19.	3.	24.515	4.951	3.6	6.	14.5	18.1
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-07/11/80	12	17.	18.833	30.	5.	59.97	7.744	6.2	15.25	26.75	29.7
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/01/73-07/11/80	12	7.	9.417	28.	3.	52.629	7.255	3.	5.	13.	24.7
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-07/11/80	12	1.5	3.25	11.	0.	16.75	4.093	0.	0.	7.	10.7
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-07/11/80	11	80.	76.273	110.	41.	306.418	17.505	44.6	68.	85.	105.2
00300	OXYGEN, DISSOLVED MG/L	03/02/73-07/11/80	12	10.85	11.192	13.5	9.4	1.814	1.347	9.49	9.925	12.375	13.26
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-07/11/80	12	0.2	0.252	0.5	0.12	0.011	0.104	0.129	0.2	0.3	0.455
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/73-07/11/80	12	30.	30.667	50.	18.	85.333	9.238	18.6	22.5	37.5	47.

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Annual Analysis for 1977 - Station WHIS0162

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-07/11/80	10	10.5	13.	23.	3.	40.889	6.394	3.5	8.75	18.75	22.8
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-07/11/80	10	24.	21.6	40.	5.	126.711	11.257	5.4	11.25	30.5	39.2
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/01/73-07/11/80	9	4.	4.2	9.	0.8	8.36	2.891	0.8	1.5	7.	9.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-07/11/80	10	5.	8.3	45.	0.	172.678	13.141	0.1	2.5	6.75	41.4
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-07/11/80	10	85.	94.	175.	60.	1093.333	33.066	60.	75.	106.25	168.5
00300	OXYGEN, DISSOLVED MG/L	03/02/73-07/11/80	10	10.6	10.52	13.4	8.5	2.248	1.499	8.52	9.15	11.425	13.24
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-07/11/80	10	0.25	0.26	0.4	0.1	0.009	0.097	0.11	0.2	0.325	0.4
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/73-07/11/80	10	37.5	39.5	60.	20.	152.5	12.349	21.	33.75	45.	60.

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0162

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-07/11/80	10	10.5	10.	18.	1.	30.667	5.538	1.1	5.75	14.5	17.8
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-07/11/80	10	17.5	18.4	30.	9.	49.378	7.027	9.1	12.25	25.25	29.6
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/01/73-07/11/80	6	8.	13.5	39.	6.	162.3	12.74	**	**	**	**
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-07/11/80	10 ##	0.	1.7	10.	0.	11.122	3.335	0.	0.	2.75	9.5
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-07/11/80	10	64.	66.	88.	44.	283.556	16.839	44.1	48.75	82.75	87.7
00300	OXYGEN, DISSOLVED MG/L	03/02/73-07/11/80	10	10.55	11.08	13.3	9.3	2.142	1.463	9.33	9.9	12.65	13.28
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-07/11/80	10	0.3	0.29	0.4	0.2	0.008	0.088	0.2	0.2	0.4	0.4
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/73-07/11/80	10	30.	26.6	35.	10.	56.711	7.531	11.	20.	30.25	34.6

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Annual Analysis for 1979 - Station WHIS0162

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-07/11/80	11	10.	10.218	21.1	3.	33.346	5.775	3.28	5.	15.6	20.32
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-07/11/80	11	25.	23.582	36.7	11.1	77.106	8.781	11.28	15.6	29.4	36.48
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/01/73-07/11/80	10	17.5	21.	44.	5.	199.778	14.134	5.1	7.5	35.75	43.7
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-07/11/80	11	2.	10.636	82.	0.	574.655	23.972	0.	0.	10.	67.8
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-07/11/80	11	67.	65.455	82.	45.	161.473	12.707	46.4	54.	79.	81.6
00300	OXYGEN, DISSOLVED MG/L	03/02/73-07/11/80	11	11.1	11.227	12.9	9.2	1.36	1.166	9.4	10.5	12.5	12.88
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-07/11/80	11	0.4	0.464	0.8	0.2	0.043	0.206	0.2	0.3	0.6	0.8
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/73-07/11/80	11	20.	22.273	30.	15.	31.818	5.641	15.	20.	30.	30.

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

Annual Analysis for 1980 - Station WHIS0162

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-07/11/80	2	11.15	11.15	16.7	5.6	61.605	7.849	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-07/11/80	2	26.1	26.1	31.1	21.1	50.	7.071	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/01/73-07/11/80	2	24.	24.	38.	10.	392.	19.799	**	**	**	**
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-07/11/80	2 ##	5.	5.	10.	0.	50.	7.071	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-07/11/80	2	66.	66.	69.	63.	18.	4.243	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	03/02/73-07/11/80	2	10.3	10.3	11.9	8.7	5.12	2.263	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-07/11/80	2	1.2	1.2	1.5	0.9	0.18	0.424	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/73-07/11/80	2	25.	25.	30.	20.	50.	7.071	**	**	**	**

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

Seasonal Analysis for Season #1: 6/01 to 11/09 - Station WHIS0162

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-07/11/80	42	15.	14.483	23.	7.8	11.62	3.409	10.3	11.1	16.775	18.7
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-07/11/80	42	24.	24.669	40.	12.	41.432	6.437	15.33	21.	29.1	33.68
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/01/73-07/11/80	41	7.	9.8	44.	0.8	85.25	9.233	3.	5.	11.5	21.6
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-07/11/80	42	3.	6.619	82.	0.	185.071	13.604	0.	0.	8.	15.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-07/11/80	40	75.	75.6	175.	40.	514.81	22.689	49.5	62.	82.75	103.3
00300	OXYGEN, DISSOLVED MG/L	03/02/73-07/11/80	42	10.2	10.236	15.	8.5	1.188	1.09	9.2	9.575	10.625	11.07
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-07/11/80	42	0.3	1.157	7.	0.02	3.974	1.993	0.072	0.2	0.5	5.7
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/73-07/11/80	42	30.	27.881	60.	10.	102.742	10.136	16.5	20.	30.	40.

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

Seasonal Analysis for Season #2: 11/10 to 2/20 - Station WHIS0162

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-07/11/80	24	5.	5.525	10.	1.	5.518	2.349	2.5	4.	7.65	9.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-07/11/80	24	12.	12.421	21.1	5.	20.119	4.485	5.8	9.1	15.45	19.
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/01/73-07/11/80	19	15.	33.105	131.	4.	1367.544	36.98	5.	6.	63.	103.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-07/11/80	25	4.	11.408	85.	0.	431.012	20.761	0.	2.	10.	51.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-07/11/80	23	67.	64.304	100.	34.	336.858	18.354	38.4	45.	80.	85.2
00300	OXYGEN, DISSOLVED MG/L	03/02/73-07/11/80	24	12.5	12.317	13.5	11.1	0.504	0.71	11.2	11.8	12.875	13.25
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-07/11/80	25	0.3	0.47	2.	0.01	0.249	0.499	0.16	0.2	0.4	1.34
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/73-07/11/80	25	20.	24.32	50.	10.	101.56	10.078	13.	16.5	30.	40.

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

Seasonal Analysis for Season #3: 2/21 to 5/31 - Station WHIS0162

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-07/11/80	25	7.8	7.6	12.2	3.	5.51	2.347	5.	5.8	10.	10.8
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-07/11/80	25	17.	16.444	27.8	5.	48.742	6.982	6.2	10.55	22.6	26.4
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/01/73-07/11/80	18	36.5	41.722	97.	7.	895.154	29.919	7.	13.	68.75	84.4
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-07/11/80	25	4.	4.56	20.	0.	25.257	5.026	0.	0.	9.	11.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-07/11/80	19	52.	58.105	85.	34.	270.766	16.455	39.	45.	79.	85.
00300	OXYGEN, DISSOLVED MG/L	03/02/73-07/11/80	25	12.	12.124	14.	10.3	1.396	1.182	10.6	11.15	13.	14.
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-07/11/80	25	0.2	0.217	0.45	0.	0.02	0.141	0.026	0.085	0.35	0.4
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/73-07/11/80	25	20.	24.	50.	10.	97.917	9.895	10.	17.5	30.	37.

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

Station Inventory for Station: WHIS0163

NPS Station ID: WHIS0163
LAT/LON: 40.667504/-122.489726
Agency: 11TOX09
Date Created: 10/20/84
Location: SPRING CK AT IRON ROAD AT IRON MT MINE
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM/MINE
STORET Station ID(s): IRONMT-70 /SPRING-70
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 18020112
Depth of Water: 999
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112003
RF1 Mile Point: 5.070
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 18020112001300.00
RF3 Mile Point: 0.90
Distance from RF3: 0.08
On/Off RF3:
Description:

Parameter Inventory for Station: WHIS0163

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/26/83-06/05/84	22	9.35	10.	17.3	5.5	10.056	3.171	6.1	7.875	10.75	16.35
00058	FLOW, RATE GALLONS/MIN	09/26/83-05/08/84	20	12.6	41.51	557.	6.9	14776.002	121.557	8.	9.075	18.975	34.5
00060	FLOW, STREAM, MEAN DAILY CFS	05/22/84-06/05/84	2	5.	5.	6.	4.	2.	1.414	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/26/83-06/05/84	22	48.5	50.091	85.	29.	184.087	13.568	34.2	42.75	52.75	77.6
00400	PH (STANDARD UNITS)	09/26/83-06/05/84	21	5.7	5.812	7.8	4.5	0.588	0.767	4.8	5.55	5.875	7.46
00400	CONVERTED PH (STANDARD UNITS)	09/26/83-06/05/84	21	5.7	5.376	7.8	4.5	0.788	0.888	4.8	5.55	5.875	7.46
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/26/83-06/05/84	21	1.995	4.212	31.623	0.016	56.669	7.528	0.172	1.336	2.837	17.224
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/04/84-06/05/84	21	1.	3.881	43.	0.5	83.773	9.153	0.5	0.5	3.	6.8
00927	MAGNESIUM, TOTAL (MG/L AS MG)	05/22/84-06/05/84	2	2570.	2570.	2620.	2520.	5000.	70.711	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	05/22/84-06/05/84	2	2700.	2700.	2800.	2600.	20000.	141.421	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	05/22/84-06/05/84	2 ##	267.5	267.5	435.	100.	56112.5	236.881	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	05/22/84-06/05/84	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	01/04/84-06/05/84	21	16.	24.714	187.	9.	1400.314	37.421	11.2	13.	21.	23.8
00956	SILICA, TOTAL (MG/L AS SI02)	05/22/84-06/05/84	2	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	09/26/83-06/05/84	3 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	09/26/83-06/05/84	3	20.	29.	50.	17.	333.	18.248	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	09/26/83-06/05/84	3 ##	0.5	1.167	2.5	0.5	1.333	1.155	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	09/26/83-09/26/83	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	01/04/84-05/08/84	19 ##	0.5	1.526	9.	0.5	4.458	2.111	0.5	0.5	1.	4.
01027	CADMIUM, TOTAL (UG/L AS CD)	09/26/83-06/05/84	21 ##	0.5	0.643	1.	0.5	0.054	0.231	0.5	0.5	1.	1.
01034	CHROMIUM, TOTAL (UG/L AS CR)	09/26/83-05/22/84	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	09/26/83-06/05/84	3 ##	5.	11.667	25.	5.	133.333	11.547	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	01/04/84-05/08/84	19	25.	25.053	32.	18.	17.164	4.143	18.	20.	28.	30.
01042	COPPER, TOTAL (UG/L AS CU)	09/26/83-06/05/84	22	50.	54.591	100.	1.	644.348	25.384	25.9	33.5	74.5	94.
01045	IRON, TOTAL (UG/L AS FE)	09/26/83-06/05/84	21	300.	285.762	450.	25.	11844.09	108.831	110.2	200.	375.	400.
01047	IRON, FERROUS (UG/L AS FE)	01/04/84-06/05/84	20 ##	0.1	0.448	3.	0.05	0.583	0.764	0.05	0.1	0.575	1.9
01051	LEAD, TOTAL (UG/L AS PB)	09/26/83-05/22/84	2 ##	1.5	1.5	2.5	0.5	2.	1.414	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	09/26/83-06/05/84	3	29.	21.	29.	5.	192.	13.856	**	**	**	**
01059	THALLIUM, TOTAL (UG/L AS TL)	09/26/83-06/05/84	3 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	09/26/83-06/05/84	3 ##	7.5	11.667	20.	7.5	52.083	7.217	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	09/26/83-06/05/84	3 ##	0.5	2.	5.	0.5	6.75	2.598	**	**	**	**
01087	VANADIUM, TOTAL (UG/L AS V)	09/26/83-06/05/84	3 ##	2.	34.667	100.	2.	3201.333	56.58	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	01/04/84-05/08/84	19	150.	142.105	220.	90.	795.322	28.201	100.	130.	150.	170.
01092	ZINC, TOTAL (UG/L AS ZN)	09/26/83-06/05/84	22	130.	126.773	329.	5.	3480.47	58.996	56.	97.5	142.	161.9
01097	ANTIMONY, TOTAL (UG/L AS SB)	09/26/83-06/05/84	3 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01102	TIN, TOTAL (UG/L AS SN)	09/26/83-06/05/84	2 ##	15.	15.	20.	10.	50.	7.071	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	05/22/84-06/05/84	2	145.	145.	167.	123.	968.	31.113	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	09/26/83-06/05/84	3 ##	1.	1.	1.	1.	0.	0.	**	**	**	**

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

Parameter Inventory for Station: WHIS0163

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01171	PLATINUM,WHOLE WATER SAMPLE,UG/L	05/22/84-06/05/84	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/22/84-06/05/84	2	65.5	65.5	82.	49.	544.5	23.335	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	09/26/83-06/05/84	3 ##	0.05	0.067	0.1	0.05	0.001	0.029	**	**	**	**
71910	GOLD, TOTAL (UG/L AS AU)	06/05/84-06/05/84	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
82032	CALCIUM - TOTAL UG/L (AS CA)	05/22/84-06/05/84	2	6160.	6160.	6350.	5970.	72200.	268.701	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0163

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------6/01-11/09---------- Obs	Exceed	Prop.	----------11/10-2/20---------- Obs	Exceed	Prop.	----------2/21-5/31---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	21	0	0.00	2	0	0.00	7	0	0.00	12	0	0.00			
		Other-Lo Lim.	6.5	21	19	0.90	2	1	0.50	7	7	1.00	12	11	0.92			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	250.	2	0	0.00	1	0	0.00				1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	21	0	0.00	1	0	0.00	7	0	0.00	13	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	3	0	0.00	2	0	0.00				1	0	0.00			
		Drinking Water	50.	3	0	0.00	2	0	0.00				1	0	0.00			
01007	BARIUM, TOTAL	Drinking Water	2000.	3	0	0.00	2	0	0.00				1	0	0.00			
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	3	0	0.00	2	0	0.00				1	0	0.00			
		Drinking Water	4.	3	0	0.00	2	0	0.00				1	0	0.00			
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	19	3	0.16				7	2	0.29	12	1	0.08			
		Drinking Water	5.	19	1	0.05				7	1	0.14	12	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	21	0	0.00	2	0	0.00	7	0	0.00	12	0	0.00			
		Drinking Water	5.	21	0	0.00	2	0	0.00	7	0	0.00	12	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	2	0	0.00	1	0	0.00				1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	13 &	13	1.00				3	3	1.00	10	10	1.00			
		Drinking Water	1300.	19	0	0.00				7	0	0.00	12	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	21 &	20	0.95	1	1	1.00	7	7	1.00	13	12	0.92			
		Drinking Water	1300.	22	0	0.00	2	0	0.00	7	0	0.00	13	0	0.00			
01051	LEAD, TOTAL	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			
01059	THALLIUM, TOTAL	Fresh Acute	1400.	3	0	0.00	2	0	0.00				1	0	0.00			
		Drinking Water	2.	0 &	0	0.00												
01067	NICKEL, TOTAL	Fresh Acute	1400.	3	0	0.00	2	0	0.00				1	0	0.00			
		Drinking Water	100.	3	0	0.00	2	0	0.00				1	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	2 &	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	100.	3	0	0.00	2	0	0.00				1	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	19	16	0.84				7	5	0.71	12	11	0.92			
		Drinking Water	5000.	19	0	0.00				7	0	0.00	12	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	22	16	0.73	2	2	1.00	7	4	0.57	13	10	0.77			
		Drinking Water	5000.	22	0	0.00	2	0	0.00	7	0	0.00	13	0	0.00			
01097	ANTIMONY, TOTAL	Fresh Acute	88.	3	0	0.00	2	0	0.00				1	0	0.00			
		Drinking Water	6.	0 &	0	0.00												
01147	SELENIUM, TOTAL	Fresh Acute	20.	3	0	0.00	2	0	0.00				1	0	0.00			
		Drinking Water	50.	3	0	0.00	2	0	0.00				1	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	3	0	0.00	2	0	0.00				1	0	0.00			
		Drinking Water	2.	3	0	0.00	2	0	0.00				1	0	0.00			

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

Station Inventory for Station: WHIS0164

NPS Station ID: WHIS0164
LAT/LON: 40.667504/-122.490282
Agency: 21CAL-1
Date Created: 02/14/81
Location: SPRING CREEK NEAR MINNESOTA
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): A2103400
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 18020112
Depth of Water: 0
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112003
RF1 Mile Point: 5.070
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 18020112000300.75
RF3 Mile Point: 0.75
Distance from RF3: 0.04
On/Off RF3:
Description:

Parameter Inventory for Station: WHIS0164

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/09/52-06/09/52	1	104.	104.	104.	104.	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	06/09/52-04/27/55	2	5.95	5.95	6.7	5.2	1.125	1.061	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	06/09/52-04/27/55	2	5.488	5.488	6.7	5.2	1.553	1.246	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/09/52-04/27/55	2	3.255	3.255	6.31	0.2	18.666	4.32	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	06/09/52-04/27/55	2	425.	425.	800.	50.	281250.	530.33	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	06/09/52-04/27/55	2	2250.	2250.	3400.	1100.	2645000.	1626.346	**	**	**	**
39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	06/09/52-06/09/52	1	2.	2.	2.	2.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0164

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00403	PH, LAB	Fresh Chronic	9.	2	0	0.00	1	0	0.00				1	0	0.00			
		Other-Lo Lim.	6.5	2	1	0.50	1	1	1.00				1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	2	2	1.00	1	1	1.00				1	1	1.00			
		Drinking Water	1300.	2	0	0.00	1	0	0.00				1	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	2	2	1.00	1	1	1.00				1	1	1.00			
		Drinking Water	5000.	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: WHIS0165

NPS Station ID: WHIS0165
LAT/LON: 40.667504/-122.490282
Agency: 21CAL-1
Date Created: 02/14/81
Location: SPRING CREEK NEAR MINNESOTA
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): A2103500
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 18020112
Depth of Water: 0
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112003
RF1 Mile Point: 5.070
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 18020112000304.54
RF3 Mile Point: 5.12
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: WHIS0165

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/26/52-06/26/52	1	1020.	1020.	1020.	1020.	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	06/26/52-06/26/52	1	2.9	2.9	2.9	2.9	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	06/26/52-06/26/52	1	2.9	2.9	2.9	2.9	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/26/52-06/26/52	1	1258.925	1258.925	1258.925	1258.925	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0165

			Total	Exceed	Prop.	----------6/01-11/09----------			----------11/10-2/20----------			----------2/21-5/31----------			--------------n/a--------------		
Parameter	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00403 PH, LAB	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
	Other-Lo Lim.	6.5	1	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: WHIS0166

NPS Station ID: WHIS0166
LAT/LON: 40.667504/-122.500560
Agency: 11TOX09
Date Created: 10/20/84
Location: BOULDER CK BL PLANT AT IRON MT MINE
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM/MINE
STORET Station ID(s): IRONMT-5 /BOULDER-5
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 18020112
Depth of Water: 999
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112003
RF1 Mile Point: 5.420
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 18020101001708.47
RF3 Mile Point: 8.57
Distance from RF3: 0.06
On/Off RF3:
Description:

Parameter Inventory for Station: WHIS0166

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/23/84-05/23/84	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00058	FLOW, RATE GALLONS/MIN	05/23/84-05/23/84	1	1.15	1.15	1.15	1.15	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/23/84-05/23/84	1	7500.	7500.	7500.	7500.	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/23/84-05/23/84	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	05/23/84-05/23/84	1	67800.	67800.	67800.	67800.	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	05/23/84-05/23/84	1	11500.	11500.	11500.	11500.	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	05/23/84-05/23/84	1	9310.	9310.	9310.	9310.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	05/23/84-05/23/84	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	05/23/84-05/23/84	1	4840.	4840.	4840.	4840.	0.	0.	**	**	**	**
00956	SILICA, TOTAL (MG/L AS SI02)	05/23/84-05/23/84	1	4.9	4.9	4.9	4.9	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	05/23/84-05/23/84	1	265.	265.	265.	265.	0.	0.	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	05/23/84-05/23/84	1	13.	13.	13.	13.	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	05/23/84-05/23/84	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	05/23/84-05/23/84	1	690.	690.	690.	690.	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	05/23/84-05/23/84	1	65.	65.	65.	65.	0.	0.	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	05/23/84-05/23/84	1	97.	97.	97.	97.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	05/23/84-05/23/84	1	1190.	1190.	1190.	1190.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	05/23/84-05/23/84	1	1040000.	1040000.	1040000.	1040000.	0.	0.	**	**	**	**
01047	IRON, FERROUS (UG/L AS FE)	05/23/84-05/23/84	1	1050.	1050.	1050.	1050.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	05/23/84-05/23/84	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	05/23/84-05/23/84	1	2050.	2050.	2050.	2050.	0.	0.	**	**	**	**
01059	THALLIUM, TOTAL (UG/L AS TL)	05/23/84-05/23/84	1	14.	14.	14.	14.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	05/23/84-05/23/84	1	53.	53.	53.	53.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	05/23/84-05/23/84	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01087	VANADIUM, TOTAL (UG/L AS V)	05/23/84-05/23/84	1	148.	148.	148.	148.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	05/23/84-05/23/84	1	105000.	105000.	105000.	105000.	0.	0.	**	**	**	**
01097	ANTIMONY, TOTAL (UG/L AS SB)	05/23/84-05/23/84	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01102	TIN, TOTAL (UG/L AS SN)	05/23/84-05/23/84	1 ##	1000.	1000.	1000.	1000.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	05/23/84-05/23/84	1	113000.	113000.	113000.	113000.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	05/23/84-05/23/84	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01171	PLATINUM,WHOLE WATER SAMPLE,UG/L	05/23/84-05/23/84	1	45.	45.	45.	45.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/23/84-05/23/84	1	5660.	5660.	5660.	5660.	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	05/23/84-05/23/84	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
71910	GOLD, TOTAL (UG/L AS AU)	05/23/84-05/23/84	1 ##	500.	500.	500.	500.	0.	0.	**	**	**	**
82032	CALCIUM - TOTAL UG/L (AS CA)	05/23/84-05/23/84	1	27500.	27500.	27500.	27500.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0166

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a 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			
01002	ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	1	1.00							1	1	1.00			
01007	BARIUM, TOTAL	Drinking Water	2000.	1	0	0.00							1	0	0.00			
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	1	0	0.00							1	0	0.00			
		Drinking Water	4.	1	0	0.00							1	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1	1	1.00							1	1	1.00			
		Drinking Water	5.	1	1	1.00							1	1	1.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00							1	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	1	1	1.00							1	1	1.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00							1	0	0.00			
		Drinking Water	15.	1	1	1.00							1	1	1.00			
01059	THALLIUM, TOTAL	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	2.	1	1	1.00							1	1	1.00			
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	1	1	1.00							1	1	1.00			
		Drinking Water	5000.	1	1	1.00							1	1	1.00			
01097	ANTIMONY, TOTAL	Fresh Acute	88.	1	0	0.00							1	0	0.00			
		Drinking Water	6.	0 &	0	0.00												
01147	SELENIUM, TOTAL	Fresh Acute	20.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00							1	0	0.00			
		Drinking Water	2.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: WHIS0167

NPS Station ID: WHIS0167
LAT/LON: 40.667504/-122.525838
Agency: 11TOX09
Date Created: 10/20/84
Location: SLICKROCK CK AB PLANT AT IRON MT MINE
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM/MINE
STORET Station ID(s): IRONMT-32 /SLICKROCK-32
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 18020112
Depth of Water: 999
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112
RF1 Mile Point: 0.000
Distance from RF1: 16.40
On/Off RF1:
RF3 Index: 18020112011801.47
RF3 Mile Point: 1.92
Distance from RF3: 0.18
On/Off RF3:
Description:

Parameter Inventory for Station: WHIS0167

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/30/84-05/30/84	1	17.5	17.5	17.5	17.5	0.	0.	**	**	**	**
00058	FLOW, RATE GALLONS/MIN	05/30/84-05/30/84	1	0.11	0.11	0.11	0.11	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	05/30/84-05/30/84	1	2.8	2.8	2.8	2.8	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/30/84-05/30/84	1	2.8	2.8	2.8	2.8	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/30/84-05/30/84	1	1584.893	1584.893	1584.893	1584.893	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/30/84-05/30/84	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	05/30/84-05/30/84	1	2760.	2760.	2760.	2760.	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	05/30/84-05/30/84	1	1570.	1570.	1570.	1570.	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	05/30/84-05/30/84	1 ##	100.	100.	100.	100.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	05/30/84-05/30/84	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	05/30/84-05/30/84	1	245.	245.	245.	245.	0.	0.	**	**	**	**
00956	SILICA, TOTAL (MG/L AS SI02)	05/30/84-05/30/84	1	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	05/30/84-05/30/84	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	05/30/84-05/30/84	1	5.	5.	5.	5.	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	05/30/84-05/30/84	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	05/30/84-05/30/84	1	7.	7.	7.	7.	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	05/30/84-05/30/84	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	05/30/84-05/30/84	1	19.	19.	19.	19.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	05/30/84-05/30/84	1	1060.	1060.	1060.	1060.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	05/30/84-05/30/84	1	2380.	2380.	2380.	2380.	0.	0.	**	**	**	**
01047	IRON, FERROUS (UG/L AS FE)	05/30/84-05/30/84	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	05/30/84-05/30/84	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	05/30/84-05/30/84	1	106.	106.	106.	106.	0.	0.	**	**	**	**
01059	THALLIUM, TOTAL (UG/L AS TL)	05/30/84-05/30/84	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	05/30/84-05/30/84	1 ##	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	05/30/84-05/30/84	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01087	VANADIUM, TOTAL (UG/L AS V)	05/30/84-05/30/84	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	05/30/84-05/30/84	1	460.	460.	460.	460.	0.	0.	**	**	**	**
01097	ANTIMONY, TOTAL (UG/L AS SB)	05/30/84-05/30/84	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	05/30/84-05/30/84	1	7880.	7880.	7880.	7880.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	05/30/84-05/30/84	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01171	PLATINUM,WHOLE WATER SAMPLE,UG/L	05/30/84-05/30/84	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/30/84-05/30/84	1	308.	308.	308.	308.	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	05/30/84-05/30/84	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
71910	GOLD, TOTAL (UG/L AS AU)	05/30/84-05/30/84	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
82032	CALCIUM - TOTAL UG/L (AS CA)	05/30/84-05/30/84	1	2370.	2370.	2370.	2370.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0167

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	1	1.00							1	1	1.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00							1	0	0.00			
		Drinking Water	250.	1	0	0.00							1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00							1	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
01007	BARIUM, TOTAL	Drinking Water	2000.	1	0	0.00							1	0	0.00			
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	1	0	0.00							1	0	0.00			
		Drinking Water	4.	1	0	0.00							1	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1	1	1.00							1	1	1.00			
		Drinking Water	5.	1	1	1.00							1	1	1.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00							1	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	1	1	1.00							1	1	1.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00							1	0	0.00			
		Drinking Water	15.	1	0	0.00							1	0	0.00			
01059	THALLIUM, TOTAL	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	2.	0 &	0	0.00												
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	1	1	1.00							1	1	1.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
01097	ANTIMONY, TOTAL	Fresh Acute	88.	1	0	0.00							1	0	0.00			
		Drinking Water	6.	0 &	0	0.00												
01147	SELENIUM, TOTAL	Fresh Acute	20.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00							1	0	0.00			
		Drinking Water	2.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: WHIS0168

NPS Station ID: WHIS0168
LAT/LON: 40.667504/-122.533338
Agency: 11TOX09
Date Created: 10/20/84
Location: OKOSH MINE PORTAL AT IRON MT MINE
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/SPRING/RUNOFF/NONPNT/MINE
STORET Station ID(s): IRONMT-67 /SLICKROCK-67
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 18020112
Depth of Water: 999
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 18020112000302.14
RF3 Mile Point: 8.00
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: WHIS0168

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/30/84-05/30/84	1	16.2	16.2	16.2	16.2	0.	0.	**	**	**	**
00058	FLOW, RATE GALLONS/MIN	05/30/84-05/30/84	1	0.08	0.08	0.08	0.08	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	05/30/84-05/30/84	1	2.9	2.9	2.9	2.9	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/30/84-05/30/84	1	2.9	2.9	2.9	2.9	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/30/84-05/30/84	1	1258.925	1258.925	1258.925	1258.925	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/30/84-05/30/84	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	05/30/84-05/30/84	1	7160.	7160.	7160.	7160.	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	05/30/84-05/30/84	1	4100.	4100.	4100.	4100.	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	05/30/84-05/30/84	1 ##	100.	100.	100.	100.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	05/30/84-05/30/84	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	05/30/84-05/30/84	1	198.	198.	198.	198.	0.	0.	**	**	**	**
00956	SILICA, TOTAL (MG/L AS SI02)	05/30/84-05/30/84	1	1.2	1.2	1.2	1.2	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	05/30/84-05/30/84	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	05/30/84-05/30/84	1	12.	12.	12.	12.	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	05/30/84-05/30/84	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	05/30/84-05/30/84	1	12.	12.	12.	12.	0.	0.	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	05/30/84-05/30/84	1	27.	27.	27.	27.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	05/30/84-05/30/84	1	2770.	2770.	2770.	2770.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	05/30/84-05/30/84	1	5680.	5680.	5680.	5680.	0.	0.	**	**	**	**
01047	IRON, FERROUS (UG/L AS FE)	05/30/84-05/30/84	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	05/30/84-05/30/84	1	23.	23.	23.	23.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	05/30/84-05/30/84	1	275.	275.	275.	275.	0.	0.	**	**	**	**
01059	THALLIUM, TOTAL (UG/L AS TL)	05/30/84-05/30/84	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	05/30/84-05/30/84	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01087	VANADIUM, TOTAL (UG/L AS V)	05/30/84-05/30/84	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	05/30/84-05/30/84	1	1210.	1210.	1210.	1210.	0.	0.	**	**	**	**
01097	ANTIMONY, TOTAL (UG/L AS SB)	05/30/84-05/30/84	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	05/30/84-05/30/84	1	20700.	20700.	20700.	20700.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	05/30/84-05/30/84	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01171	PLATINUM,WHOLE WATER SAMPLE,UG/L	05/30/84-05/30/84	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/30/84-05/30/84	1	305.	305.	305.	305.	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	05/30/84-05/30/84	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
71910	GOLD, TOTAL (UG/L AS AU)	05/30/84-05/30/84	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
82032	CALCIUM - TOTAL UG/L (AS CA)	05/30/84-05/30/84	1	6270.	6270.	6270.	6270.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0168

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	1	1.00							1	1	1.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00							1	0	0.00			
		Drinking Water	250.	1	0	0.00							1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00							1	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
01007	BARIUM, TOTAL	Drinking Water	2000.	1	0	0.00							1	0	0.00			
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	1	0	0.00							1	0	0.00			
		Drinking Water	4.	1	0	0.00							1	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1	1	1.00							1	1	1.00			
		Drinking Water	5.	1	1	1.00							1	1	1.00			
01042	COPPER, TOTAL	Fresh Acute	18.	1	1	1.00							1	1	1.00			
		Drinking Water	1300.	1	1	1.00							1	1	1.00			
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00							1	0	0.00			
		Drinking Water	15.	1	1	1.00							1	1	1.00			
01059	THALLIUM, TOTAL	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	2.	0 &	0	0.00												
01077	SILVER, TOTAL	Fresh Acute	4.1	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	1	1	1.00							1	1	1.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
01097	ANTIMONY, TOTAL	Fresh Acute	88.	1	0	0.00							1	0	0.00			
		Drinking Water	6.	0 &	0	0.00												
01147	SELENIUM, TOTAL	Fresh Acute	20.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00							1	0	0.00			
		Drinking Water	2.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: WHIS0169

NPS Station ID: WHIS0169
LAT/LON: 40.667781/-122.523337
Agency: 11TOX09
Date Created: 10/20/84
Location: SLICKROCK CK BL PLANT AT IRON MT MINE
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM/MINE
STORET Station ID(s): IRONMT-33 /SLICKROCK-33
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 18020112
Depth of Water: 999
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112
RF1 Mile Point: 0.000
Distance from RF1: 15.70
On/Off RF1:
RF3 Index: 18020112011801.47
RF3 Mile Point: 1.86
Distance from RF3: 0.04
On/Off RF3:
Description:

Parameter Inventory for Station: WHIS0169

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/30/84-06/13/84	2	23.5	23.5	24.	23.	0.5	0.707	**	**	**	**
00058	FLOW, RATE GALLONS/MIN	05/30/84-06/13/84	2	0.33	0.33	0.41	0.25	0.013	0.113	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/13/84-06/13/84	1	4600.	4600.	4600.	4600.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	05/30/84-05/30/84	1	3.15	3.15	3.15	3.15	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/30/84-05/30/84	1	3.15	3.15	3.15	3.15	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/30/84-05/30/84	1	707.946	707.946	707.946	707.946	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/30/84-06/13/84	2	58.	58.	78.	38.	800.	28.284	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	05/30/84-06/13/84	2	200000.	200000.	204000.	196000.	32000000.	5656.854	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	05/30/84-06/13/84	2	5697.5	5697.5	6135.	5260.	382812.5	618.718	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	05/30/84-06/13/84	2 ##	5500.	5500.	10000.	1000.	40500000.	6363.961	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	05/30/84-06/13/84	2 ##	2.25	2.25	4.	0.5	6.125	2.475	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	05/30/84-06/13/84	2	4552.5	4552.5	4825.	4280.	148512.5	385.373	**	**	**	**
00956	SILICA, TOTAL (MG/L AS SI02)	05/30/84-06/13/84	2	7.75	7.75	8.5	7.	1.125	1.061	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	05/30/84-06/13/84	2	26.5	26.5	41.	12.	420.5	20.506	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	05/30/84-06/13/84	2 ##	27.5	27.5	50.	5.	1012.5	31.82	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	05/30/84-06/13/84	2 ##	27.75	27.75	50.	5.5	990.125	31.466	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	05/30/84-06/13/84	2	168.5	168.5	176.	161.	112.5	10.607	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	05/30/84-06/13/84	2 ##	112.5	112.5	200.	25.	15312.5	123.744	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	05/30/84-06/13/84	2	1420.	1420.	2500.	340.	2332800.	1527.351	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	05/30/84-06/13/84	2	16975.	16975.	20450.	13500.	24151250.	4914.392	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	05/30/84-06/13/84	2	954250.	954250.	964500.	944000.	210125000.	14495.689	**	**	**	**
01047	IRON, FERROUS (UG/L AS FE)	05/30/84-06/13/84	2	698.	698.	740.	656.	3528.	59.397	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	05/30/84-06/13/84	2	6.5	6.5	7.	6.	0.5	0.707	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	05/30/84-06/13/84	2	8297.5	8297.5	8300.	8295.	12.5	3.536	**	**	**	**
01059	THALLIUM, TOTAL (UG/L AS TL)	05/30/84-06/13/84	2 ##	3.	3.	5.	1.	8.	2.828	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	05/30/84-06/13/84	2 ##	827.5	827.5	1580.	75.	1132512.5	1064.196	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	05/30/84-06/13/84	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01087	VANADIUM, TOTAL (UG/L AS V)	05/30/84-06/13/84	2 ##	160.	160.	200.	120.	3200.	56.569	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	05/30/84-06/13/84	2	31750.	31750.	32500.	31000.	1125000.	1060.66	**	**	**	**
01097	ANTIMONY, TOTAL (UG/L AS SB)	05/30/84-06/13/84	2 ##	6.5	6.5	10.	3.	24.5	4.95	**	**	**	**
01102	TIN, TOTAL (UG/L AS SN)	05/30/84-06/13/84	2 ##	550.	550.	1000.	100.	405000.	636.396	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	05/30/84-06/13/84	2	318250.	318250.	323500.	313000.	55125000.	7424.621	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	05/30/84-06/13/84	2 ##	11.5	11.5	22.	1.	220.5	14.849	**	**	**	**
01171	PLATINUM,WHOLE WATER SAMPLE,UG/L	05/30/84-06/13/84	2	24.	24.	27.	21.	18.	4.243	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/30/84-06/13/84	2	6912.5	6912.5	7345.	6480.	374112.5	611.647	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	05/30/84-06/13/84	2 ##	0.125	0.125	0.2	0.05	0.011	0.106	**	**	**	**
71910	GOLD, TOTAL (UG/L AS AU)	05/30/84-06/13/84	2 ##	275.	275.	500.	50.	101250.	318.198	**	**	**	**
82032	CALCIUM - TOTAL UG/L (AS CA)	05/30/84-06/13/84	2	61850.	61850.	62400.	61300.	605000.	777.817	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0169

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	1	1.00							1	1	1.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	250.	2	0	0.00	1	0	0.00				1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	2	2	1.00	1	1	1.00				1	1	1.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	50.	2	0	0.00	1	0	0.00				1	0	0.00			
01007	BARIUM, TOTAL	Drinking Water	2000.	2	0	0.00	1	0	0.00				1	0	0.00			
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	4.	0 &	0	0.00												
01027	CADMIUM, TOTAL	Fresh Acute	3.9	2	2	1.00	1	1	1.00				1	1	1.00			
		Drinking Water	5.	2	2	1.00	1	1	1.00				1	1	1.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	1 &	0	0.00	1	0	0.00									
01042	COPPER, TOTAL	Fresh Acute	18.	2	2	1.00	1	1	1.00				1	1	1.00			
		Drinking Water	1300.	2	2	1.00	1	1	1.00				1	1	1.00			
01051	LEAD, TOTAL	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			
01059	THALLIUM, TOTAL	Fresh Acute	1400.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	2.	1 &	0	0.00	1	0	0.00									
01067	NICKEL, TOTAL	Fresh Acute	1400.	2	1	0.50	1	0	0.00				1	1	1.00			
		Drinking Water	100.	2	1	0.50	1	0	0.00				1	1	1.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	100.	2	0	0.00	1	0	0.00				1	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	2	2	1.00	1	1	1.00				1	1	1.00			
		Drinking Water	5000.	2	2	1.00	1	1	1.00				1	1	1.00			
01097	ANTIMONY, TOTAL	Fresh Acute	88.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	6.	1 &	0	0.00	1	0	0.00									
01147	SELENIUM, TOTAL	Fresh Acute	20.	2	1	0.50	1	1	1.00				1	0	0.00			
		Drinking Water	50.	2	0	0.00	1	0	0.00				1	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	2.	2	0	0.00	1	0	0.00				1	0	0.00			

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

Station Inventory for Station: WHIS0170

NPS Station ID: WHIS0170
LAT/LON: 40.668199/-122.632560
Agency: 11NPSWRD
Date Created: 05/23/98
Location: CLEAR CREEK FRENCH GULCH HOUSING
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): WHIS_NPS_01
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112
Depth of Water: 0
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112
RF1 Mile Point: 0.000
Distance from RF1: 0.80
On/Off RF1:
RF3 Index: 18010211001600.95
RF3 Mile Point: 5.98
Distance from RF3: 0.04
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE FRENCH GULCH CA 7.5' SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE WAS DESCRIBED BY THE NPS AS "CLEAR CREEK FRENCH GULCH HOUSING" AND WAS LOCATED UNDER THE BRIDGE FOR A LIGHT-DUTY ROAD OFF OF TRINITY MOUNTAIN ROAD; JUST NORTH OF ITS INTERSECTION WITH STATE ROUTE 299 INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA WERE COLLECTED FROM APPROXIMATELY 1973 UNTIL 1980 BY PARK PERSONNEL FOR FOURTEEN TOTAL LOCATIONS. THE DATA FOR EACH LOCATION WERE IN SEPARATELY BOUND FILES. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; PO BOX 188; WHISKEYTOWN CALIFORNIA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NPS WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0170

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-07/11/80	91	12.	13.446	28.	3.	37.794	6.148	7.	8.	19.	22.96
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-07/11/80	92	19.5	19.457	45.	0.6	62.402	7.899	9.12	13.	25.	29.28
00032	CLOUD COVER (PERCENT)	07/11/80-07/11/80	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00035	WIND VELOCITY (MILES PER HOUR)	07/11/80-07/11/80	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00045	PRECIPITATION, TOTAL (INCHES PER DAY)	07/11/80-07/11/80	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/02/73-07/11/80	23	54.	235.652	1073.	10.	103113.51	321.113	10.	20.	361.	868.2
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-07/11/80	93	3.	6.591	70.	0.	114.527	10.702	0.	1.	8.	15.6
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-07/11/80	83	95.	91.024	140.	43.	617.024	24.84	54.	65.	110.	125.
00300	OXYGEN, DISSOLVED MG/L	03/02/73-07/11/80	92	10.9	11.052	15.	8.3	1.888	1.374	9.4	10.1	11.8	13.
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-07/11/80	93	0.3	0.728	8.	0.	2.05	1.432	0.05	0.2	0.4	1.64
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/06/74-08/14/76	31	1.38	1.841	5.9	0.41	1.681	1.297	0.592	0.92	2.6	2.94
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	07/03/73-08/14/76	47	0.11	0.126	0.37	0.04	0.005	0.068	0.05	0.08	0.17	0.21
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/73-07/11/80	93	37.	35.828	60.	10.	121.666	11.03	20.	30.	40.	50.
00945	SULFATE, TOTAL (MG/L AS SO4)	06/05/75-06/05/75	1	8.	8.	8.	8.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	06/05/75-06/05/75	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	06/05/75-06/05/75	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	06/05/75-06/05/75	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0170

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	93	2	0.02	42	0	0.00	25	1	0.04	26	1	0.04			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	92	0	0.00	42	0	0.00	24	0	0.00	26	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	93	0	0.00	42	0	0.00	25	0	0.00	26	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00	1	0	0.00									
01042	COPPER, TOTAL	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									

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

Annual Analysis for 1973 - Station WHIS0170

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-07/11/80	21	13.9	14.005	26.1	7.2	36.025	6.002	7.8	8.6	18.9	24.08
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-07/11/80	21	20.	19.648	31.7	9.4	44.73	6.688	10.22	13.3	24.7	29.3
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-07/11/80	21	7.	8.905	30.	0.	67.39	8.209	0.4	3.	12.5	22.4
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-07/11/80	16	93.	86.688	117.	43.	527.296	22.963	47.9	63.75	104.5	112.1
00300	OXYGEN, DISSOLVED MG/L	03/02/73-07/11/80	20	11.	11.81	15.	9.4	2.864	1.692	9.91	10.75	13.	14.9
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-07/11/80	21	0.05	1.885	8.	0.	7.325	2.706	0.	0.025	3.5	7.
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/73-07/11/80	21	35.	31.429	45.	10.	97.857	9.892	20.	22.5	40.	44.

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

Annual Analysis for 1974 - Station WHIS0170

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-07/11/80	14	10.5	11.814	21.	6.1	25.463	5.046	6.55	7.75	18.	20.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-07/11/80	14	17.	16.707	35.	0.6	96.958	9.847	3.8	8.825	24.25	32.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-07/11/80	14	4.5	6.714	40.	0.	110.22	10.499	0.	0.75	6.	28.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-07/11/80	14	72.5	77.714	112.	49.	548.22	23.414	50.5	55.5	101.25	111.
00300	OXYGEN, DISSOLVED MG/L	03/02/73-07/11/80	14	11.05	10.929	12.1	9.1	0.961	0.98	9.2	10.175	11.775	12.1
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-07/11/80	14	0.3	0.329	0.7	0.1	0.028	0.167	0.15	0.2	0.425	0.65
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/73-07/11/80	14	25.	29.286	45.	20.	103.297	10.163	20.	20.	40.	42.5

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

Annual Analysis for 1975 - Station WHIS0170

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-07/11/80	12	11.5	12.	23.	3.	40.909	6.396	3.9	6.25	18.25	22.1
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-07/11/80	12	18.5	18.25	27.	8.	41.295	6.426	8.9	12.25	24.25	27.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-07/11/80	13	5.	5.308	20.	0.	30.231	5.498	0.	0.5	7.5	16.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-07/11/80	9	92.	86.222	130.	50.	741.694	27.234	50.	59.	107.5	130.
00300	OXYGEN, DISSOLVED MG/L	03/02/73-07/11/80	13	10.6	10.769	13.8	8.3	2.642	1.626	8.66	9.4	12.2	13.24
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-07/11/80	13	0.3	0.308	0.5	0.2	0.007	0.086	0.2	0.25	0.35	0.46
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/73-07/11/80	13	30.	32.154	50.	20.	76.974	8.774	20.	25.	40.	46.

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

Annual Analysis for 1976 - Station WHIS0170

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-07/11/80	12	13.	13.667	24.	4.	49.333	7.024	4.6	8.	20.75	23.7
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-07/11/80	12	19.5	21.583	32.	14.	34.992	5.915	14.6	18.	25.75	32.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-07/11/80	12	2.5	4.	10.	0.	18.	4.243	0.	0.	9.5	10.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-07/11/80	11	95.	92.818	125.	54.	455.364	21.339	56.	80.	110.	123.
00300	OXYGEN, DISSOLVED MG/L	03/02/73-07/11/80	12	11.15	11.3	13.6	9.5	1.735	1.317	9.62	10.15	12.575	13.36
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-07/11/80	12	0.3	0.3	0.4	0.2	0.006	0.077	0.2	0.213	0.388	0.4
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/73-07/11/80	12	40.	40.417	60.	30.	70.265	8.382	30.	35.	43.75	57.

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0170

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-07/11/80	10	16.	16.5	28.	8.	48.5	6.964	8.1	9.	22.5	27.6
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-07/11/80	10	24.	22.4	45.	10.	100.044	10.002	10.2	12.75	25.25	43.1
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-07/11/80	10	4.	8.8	54.	0.	263.289	16.226	0.	0.75	8.5	49.6
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-07/11/80	10	127.5	117.4	140.	65.	542.044	23.282	67.5	105.	131.	139.4
00300	OXYGEN, DISSOLVED MG/L	03/02/73-07/11/80	10	10.5	10.65	12.	9.7	0.636	0.798	9.7	9.925	11.275	11.98
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-07/11/80	10	0.3	0.37	0.7	0.3	0.016	0.125	0.3	0.3	0.4	0.67
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/73-07/11/80	10	55.	53.5	60.	40.	39.167	6.258	41.	50.	60.	60.

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0170

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-07/11/80	10	12.5	12.2	20.	3.	35.067	5.922	3.1	7.	18.25	19.9
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-07/11/80	10	17.5	18.6	28.	12.	31.156	5.582	12.1	13.75	23.25	27.9
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-07/11/80	10	1.5	8.8	70.	0.	467.289	21.617	0.	0.	5.	63.5
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-07/11/80	10	100.	91.7	120.	52.	560.011	23.665	53.3	65.	110.	119.
00300	OXYGEN, DISSOLVED MG/L	03/02/73-07/11/80	10	10.7	10.87	13.3	8.5	2.031	1.425	8.62	10.	11.675	13.25
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-07/11/80	10	0.35	0.31	0.4	0.1	0.012	0.11	0.11	0.2	0.4	0.4
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/73-07/11/80	10	40.	39.4	45.	30.	20.489	4.526	30.5	36.5	42.75	45.

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

Annual Analysis for 1979 - Station WHIS0170

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-07/11/80	10	11.55	13.85	23.3	7.	40.243	6.344	7.1	8.675	20.825	23.3
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-07/11/80	11	17.8	19.945	37.2	8.	105.721	10.282	8.2	12.	30.	36.88
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-07/11/80	11	2.	2.364	9.	0.	7.055	2.656	0.	0.	3.	8.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-07/11/80	11	94.	96.818	125.	75.	306.364	17.503	75.2	80.	110.	124.
00300	OXYGEN, DISSOLVED MG/L	03/02/73-07/11/80	11	10.4	10.582	12.3	9.5	0.84	0.916	9.52	9.8	11.4	12.2
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-07/11/80	11	0.4	0.536	1.3	0.2	0.149	0.385	0.22	0.3	0.8	1.28
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/73-07/11/80	11	30.	33.182	50.	20.	86.364	9.293	21.	25.	40.	49.

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

Annual Analysis for 1980 - Station WHIS0170

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-07/11/80	2	15.3	15.3	20.6	10.	56.18	7.495	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-07/11/80	2	18.05	18.05	27.2	8.9	167.445	12.94	**	**	**	**
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-07/11/80	2	6.5	6.5	11.	2.	40.5	6.364	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-07/11/80	2	63.5	63.5	74.	53.	220.5	14.849	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	03/02/73-07/11/80	2	10.2	10.2	11.3	9.1	2.42	1.556	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-07/11/80	2	1.6	1.6	1.8	1.4	0.08	0.283	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/73-07/11/80	2	32.5	32.5	35.	30.	12.5	3.536	**	**	**	**

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

Seasonal Analysis for Season #1: 6/01 to 11/09 - Station WHIS0170

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-07/11/80	41	19.	18.917	28.	11.1	17.374	4.168	13.	15.8	22.4	24.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-07/11/80	41	25.	25.5	45.	12.2	40.152	6.337	18.2	21.55	28.95	34.4
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/02/73-07/11/80	12	20.	25.917	54.	10.	264.083	16.251	10.	10.5	36.75	54.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-07/11/80	42	5.	5.619	23.	0.	31.071	5.574	0.	1.75	8.	13.5
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-07/11/80	39	105.	106.436	140.	74.	236.937	15.393	88.	95.	117.	130.
00300	OXYGEN, DISSOLVED MG/L	03/02/73-07/11/80	42	10.15	10.102	12.3	8.3	0.64	0.8	9.13	9.475	10.6	11.
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-07/11/80	42	0.325	1.165	8.	0.04	4.066	2.016	0.2	0.3	0.625	4.7
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/73-07/11/80	42	40.	40.81	60.	25.	61.231	7.825	30.	35.	45.	53.5

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

Seasonal Analysis for Season #2: 11/10 to 2/20 - Station WHIS0170

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-07/11/80	24	7.8	7.321	11.	3.	4.963	2.228	3.5	6.	8.9	10.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-07/11/80	25	12.2	12.68	22.	0.6	23.881	4.887	7.6	9.2	16.	20.4
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/02/73-07/11/80	6	653.	705.	1073.	361.	74612.8	273.153	**	**	**	**
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-07/11/80	25	3.	8.2	54.	0.	189.	13.748	0.	0.	8.	34.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-07/11/80	24	70.	78.125	130.	43.	613.853	24.776	51.	54.5	99.	111.
00300	OXYGEN, DISSOLVED MG/L	03/02/73-07/11/80	24	11.75	11.85	13.8	10.2	0.888	0.942	10.65	11.15	12.375	13.45
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-07/11/80	25	0.3	0.524	2.	0.	0.23	0.48	0.2	0.25	0.6	1.34
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/73-07/11/80	25	30.	33.12	60.	10.	132.943	11.53	20.	25.	40.	50.

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

Seasonal Analysis for Season #3: 2/21 to 5/31 - Station WHIS0170

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/73-07/11/80	26	9.	10.473	18.	7.	9.396	3.065	7.62	8.	12.25	15.72
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/15/73-07/11/80	26	16.05	16.442	26.	8.	24.705	4.97	9.	12.	20.	23.42
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/02/73-07/11/80	5	186.	175.8	292.	76.	6256.2	79.096	**	**	**	**
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/73-07/11/80	26	3.	6.615	70.	0.	184.886	13.597	0.	0.	8.25	11.8
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/01/73-07/11/80	20	75.	76.45	130.	49.	524.682	22.906	50.2	58.5	85.	119.
00300	OXYGEN, DISSOLVED MG/L	03/02/73-07/11/80	26	11.45	11.85	15.	9.9	2.219	1.489	10.07	10.8	13.	14.3
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/15/73-07/11/80	26	0.275	0.217	0.4	0.	0.021	0.145	0.007	0.045	0.3	0.4
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/73-07/11/80	26	27.5	30.385	60.	20.	139.846	11.826	20.	20.	36.25	51.5

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

Station Inventory for Station: WHIS0171

NPS Station ID: WHIS0171
LAT/LON: 40.668337/-122.500281
Agency: 11TOX09
Date Created: 10/20/84
Location: BOULDER CREEK AB PLANT AT IRON MT MINE
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM/MINE
STORET Station ID(s): IRONMT-4 /BOULDER-4
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 18020112
Depth of Water: 999
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112003
RF1 Mile Point: 5.420
Distance from RF1: 11.00
On/Off RF1: OFF
RF3 Index: 18020112011800.00
RF3 Mile Point: 2.43
Distance from RF3: 0.10
On/Off RF3:
Description:

Parameter Inventory for Station: WHIS0171

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/23/84-05/23/84	1	21.	21.	21.	21.	0.	0.	**	**	**	**
00058	FLOW, RATE GALLONS/MIN	05/23/84-05/23/84	1	0.96	0.96	0.96	0.96	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/23/84-05/23/84	1	850.	850.	850.	850.	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/23/84-05/23/84	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	05/23/84-05/23/84	1	14300.	14300.	14300.	14300.	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	05/23/84-05/23/84	1	4420.	4420.	4420.	4420.	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	05/23/84-05/23/84	1 ##	100.	100.	100.	100.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	05/23/84-05/23/84	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	05/23/84-05/23/84	1	303.	303.	303.	303.	0.	0.	**	**	**	**
00956	SILICA, TOTAL (MG/L AS SI02)	05/23/84-05/23/84	1	1.8	1.8	1.8	1.8	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	05/23/84-05/23/84	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	05/23/84-05/23/84	1	7.	7.	7.	7.	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	05/23/84-05/23/84	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	05/23/84-05/23/84	1	12.	12.	12.	12.	0.	0.	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	05/23/84-05/23/84	1	18.	18.	18.	18.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	05/23/84-05/23/84	1	1330.	1330.	1330.	1330.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	05/23/84-05/23/84	1	12500.	12500.	12500.	12500.	0.	0.	**	**	**	**
01047	IRON, FERROUS (UG/L AS FE)	05/23/84-05/23/84	1	7.	7.	7.	7.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	05/23/84-05/23/84	1	8.	8.	8.	8.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	05/23/84-05/23/84	1	505.	505.	505.	505.	0.	0.	**	**	**	**
01059	THALLIUM, TOTAL (UG/L AS TL)	05/23/84-05/23/84	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	05/23/84-05/23/84	1 ##	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	05/23/84-05/23/84	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01087	VANADIUM, TOTAL (UG/L AS V)	05/23/84-05/23/84	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	05/23/84-05/23/84	1	4690.	4690.	4690.	4690.	0.	0.	**	**	**	**
01097	ANTIMONY, TOTAL (UG/L AS SB)	05/23/84-05/23/84	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	05/23/84-05/23/84	1	17900.	17900.	17900.	17900.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	05/23/84-05/23/84	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01171	PLATINUM,WHOLE WATER SAMPLE,UG/L	05/23/84-05/23/84	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/23/84-05/23/84	1	422.	422.	422.	422.	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	05/23/84-05/23/84	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
71910	GOLD, TOTAL (UG/L AS AU)	05/23/84-05/23/84	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
82032	CALCIUM - TOTAL UG/L (AS CA)	05/23/84-05/23/84	1	11800.	11800.	11800.	11800.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0171

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a 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			
01002	ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
01007	BARIUM, TOTAL	Drinking Water	2000.	1	0	0.00							1	0	0.00			
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	1	0	0.00							1	0	0.00			
		Drinking Water	4.	1	0	0.00							1	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00							1	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	1	1	1.00							1	1	1.00			
		Drinking Water	1300.	1	1	1.00							1	1	1.00			
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00							1	0	0.00			
		Drinking Water	15.	1	0	0.00							1	0	0.00			
01059	THALLIUM, TOTAL	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	2.	0 &	0	0.00												
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	1	1	1.00							1	1	1.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
01097	ANTIMONY, TOTAL	Fresh Acute	88.	1	0	0.00							1	0	0.00			
		Drinking Water	6.	0 &	0	0.00												
01147	SELENIUM, TOTAL	Fresh Acute	20.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00							1	0	0.00			
		Drinking Water	2.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: WHIS0172

NPS Station ID: WHIS0172
LAT/LON: 40.668615/-122.630559
Agency: 11NPSWRD
Date Created: 03/27/99
Location: 33N/7W-35N2
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): WHIS_NPS_SPR_3
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112
Depth of Water: 0
Aquifer:
Major Basin: CALIFORNIA
Elevation: 1350
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112
RF1 Mile Point: 0.000
Distance from RF1: 0.80
On/Off RF1:
RF3 Index: 18010211001600.95
RF3 Mile Point: 5.98
Distance from RF3: 0.04
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE FRENCH GULCH; CA 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SPRING 33N/7W-35N2 IS LOCATED NORTHEAST OF ROAD 299 NEAR THE NORTHERN BOUNDARY OF THE WHISKEYTOWN-SHASTA- TRINITY NATIONAL RECREATION AREA. WATER FROM THIS SPRING WAS USED IN THE DEVELOPMENT OF A DOMESTIC WATER SUPPLY FOR THE TOWER HOUSE RESIDENTIAL AREA. THE SPRING IS LOCATED INSIDE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA BOUNDARIES. DATA WERE COLLECTED BY WILLIAM WERRELL OF NPS-WRD AS PART OF A WATER RESOURCES INVENTORY. FOR MORE INFORMATION CONTACT RESOURCE MANAGEMENT AT WHISKEYTOWN-SHASTA- TRINITY NATIONAL RECREATION AREA; P.O. BOX 188; WHISKEYTOWN CA 96095. TEL. 916-241-6584. DATA WERE PROCESSED AND UPLOADED TO STORET BY ADAM HENSON; NPS-WRD; 1201 OAKRIDGE DRIVE SUITE 250; FORT COLLINS CO 80525. TEL. 970-225-3516.

Parameter Inventory for Station: WHIS0172

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

******** No Parameter Data at this Station Suitable for Statistical Analysis ********

Station Inventory for Station: WHIS0173

NPS Station ID: WHIS0173 | LAT/LON: 40.668698/-122.643449 | Agency: 11NPSWRD | Date Created: 02/13/99
Location: IRRIGATION DITCH SE 1/4 SW 1/4 SECT. 34 T33N R7W | FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /CANAL/TYPA/AMBNT | STORET Station ID(s): WHIS_USGS_ID1
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112 | Depth of Water: 0 | Aquifer:
Major Basin: CALIFORNIA | Elevation: 0 | Water Body Id:
Minor Basin: SACRAMENTO RIVER | ECO Region:
RF1 Index: 18020112 | RF1 Mile Point: 0.000 | Distance from RF1: 0.80 | On/Off RF1:
RF3 Index: 18010211001600.95 | RF3 Mile Point: 5.98 | Distance from RF3: 0.04 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE FRENCH GULCH CA-SHASTA COUNTY 7.5' SERIES (TOPOGRAPHIC) QUADRANGLE INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE SITE IS DESCRIBED BY THE USGS AS "IRRIGATION DITCH; SE 1/4 SW 1/4; SECT. 34; T33N; R7W." AN IRRIGATION DITCH COULD NOT BE IDENTIFIED IN THE VICINITY OF THE LOCATION DESCRIPTION. THE LAT/LONG VALUES USED WERE ESTIMATED. DATA WERE COLLECTED BY THE USGS AND LISTED IN A REPORT TITLED "WATER-RESOURCES RECONNAISSANCE OF WHISKEYTOWN NATIONAL RECREATION AREA; CALIFORNIA" DATED 1969. FOR MORE INFORMATION ON THE WHISKEYTOWN UNIT OF THE PARK CONTACT THE CHIEF OF RESOURCES AT THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; P.O. BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NPS WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0173

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/21/68-05/21/68	1	57.	57.	57.	57.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	05/21/68-05/21/68	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/21/68-05/21/68	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/21/68-05/21/68	1	0.032	0.032	0.032	0.032	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	05/21/68-05/21/68	1	31.	31.	31.	31.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	05/21/68-05/21/68	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/21/68-05/21/68	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	05/21/68-05/21/68	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/21/68-05/21/68	1	5.8	5.8	5.8	5.8	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/21/68-05/21/68	1	1.4	1.4	1.4	1.4	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/21/68-05/21/68	1	3.4	3.4	3.4	3.4	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/21/68-05/21/68	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	05/21/68-05/21/68	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	05/21/68-05/21/68	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/21/68-05/21/68	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/21/68-05/21/68	1	19.	19.	19.	19.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	05/21/68-05/21/68	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	05/21/68-05/21/68	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	05/21/68-05/21/68	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	05/21/68-05/21/68	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/21/68-05/21/68	1	47.	47.	47.	47.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	05/21/68-05/21/68	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0173

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
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			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	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			
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			
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: WHIS0174

NPS Station ID: WHIS0174
LAT/LON: 40.669448/-122.629726
Agency: 11NPSWRD
Date Created: 03/27/99
Location: 33N/7W-35N1
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): WHIS_NPS_SPR_1
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112
Depth of Water: 0
Aquifer:
Major Basin: CALIFORNIA
Elevation: 1520
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112
RF1 Mile Point: 0.000
Distance from RF1: 0.80
On/Off RF1:
RF3 Index: 18010211001600.95
RF3 Mile Point: 5.98
Distance from RF3: 0.04
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE FRENCH GULCH; CA 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SPRING 33N/7W-35N1 IS LOCATED NORTHEAST OF ROAD 299 NEAR THE NORTHERN BOUNDARY OF THE WHISKEYTOWN-SHASTA- TRINITY NATIONAL RECREATION AREA. WATER FROM THIS SPRING FLOWS TO THE ARNOLD DIVERSION AND WAS USED IN THE PAST FOR DOMESTIC SUPPLY AT THE TOWER HOUSE RESIDENTIAL AREA. THE SPRING IS LOCATED INSIDE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA BOUNDARIES. DATA WERE COLLECTED BY WILLIAM WERRELL OF NPS-WRD AS PART OF A WATER RESOURCES INVENTORY. FOR MORE INFORMATION CONTACT RESOURCE MANAGEMENT AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; P.O. BOX 188; WHISKEYTOWN CA 96095. TEL. 916-241-6584. DATA WERE PROCESSED AND UPLOADED TO STORET BY ADAM HENSON; NPS-WRD; 1201 OAKRIDGE DRIVE SUITE 250; FORT COLLINS CO 80525. TEL. 970-225-3516.

Parameter Inventory for Station: WHIS0174

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/15/76-01/15/76	2	13.5	13.5	14.	13.	0.5	0.707	**	**	**	**
00058	FLOW, RATE GALLONS/MIN	01/15/76-01/15/76	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00402	SPECIFIC CONDUCTANCE,NON-TEMPERATURE CORR.UMHOS/CM	01/15/76-01/15/76	2	140.	140.	170.	110.	1800.	42.426	**	**	**	**

** - Less than 9 observations ## - 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: WHIS0175

NPS Station ID: WHIS0175
LAT/LON: 40.669892/-122.645420
Agency: 11NPSWRD
Date Created: 05/23/98
Location: WILLOW CREEK
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): WHIS_NPS_11
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112
Depth of Water: 0
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112
RF1 Mile Point: 0.000
Distance from RF1: 0.80
On/Off RF1:
RF3 Index: 18010211001600.95
RF3 Mile Point: 5.98
Distance from RF3: 0.04
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE FRENCH GULCH CA 7.5' SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE WAS DESCRIBED BY THE NPS AS "WILLOW CREEK" AND WAS LOCATED UNDER THE WILLOW CREEK BRIDGE ON CRYSTAL CREEK ROAD INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA WERE COLLECTED FROM APPROXIMATELY 1973 UNTIL 1980 BY PARK PERSONNEL FOR FOURTEEN TOTAL LOCATIONS. THE DATA FOR EACH LOCATION WERE IN SEPARATELY BOUND FILES. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; PO BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NPS WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0175

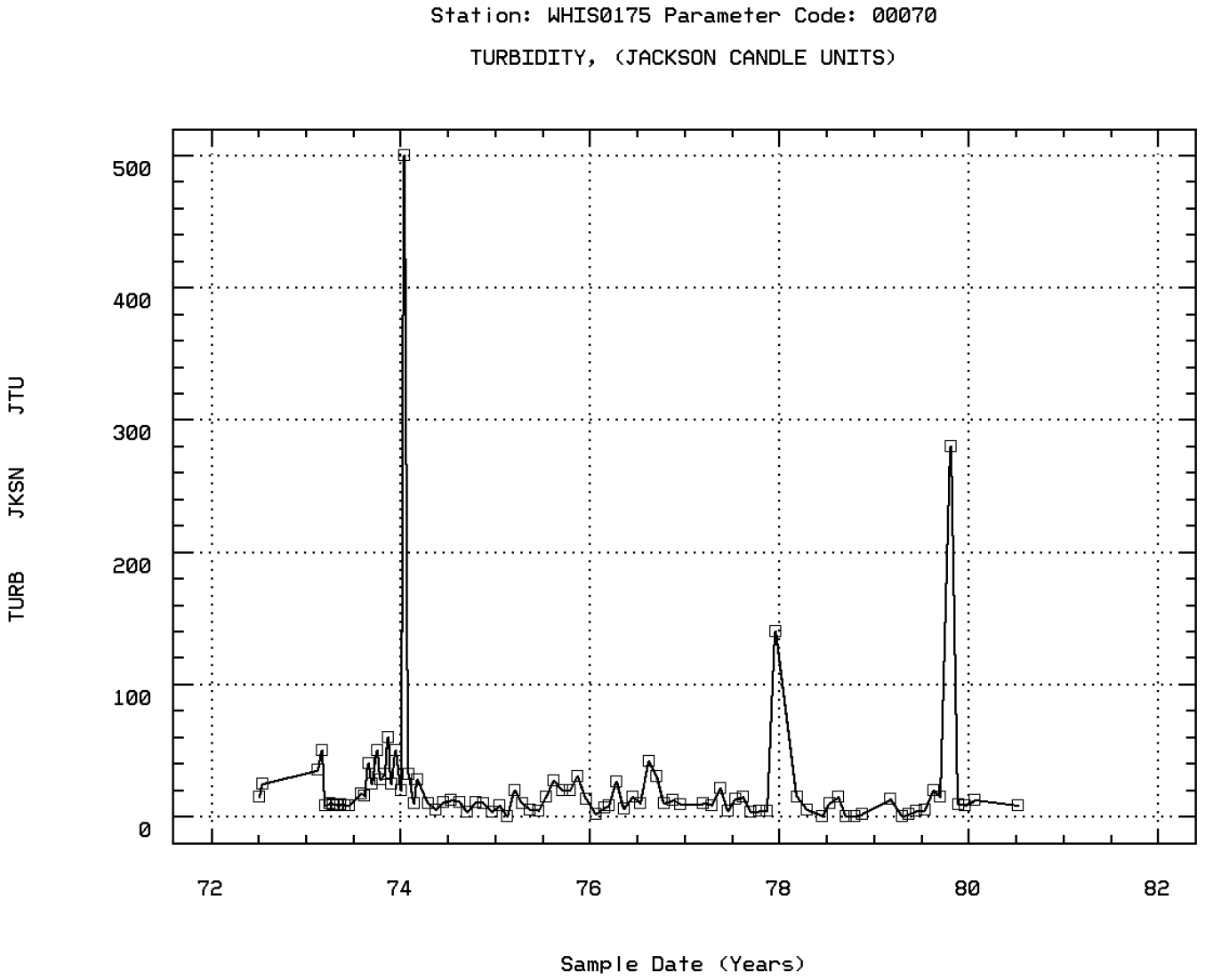
Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/03/72-09/27/84	92	11.55	12.198	37.2	3.	34.196	5.848	6.	8.	15.6	18.9
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/03/72-09/27/84	93	19.	19.074	47.	3.	66.715	8.168	8.12	13.	25.	28.96
00032	CLOUD COVER (PERCENT)	07/11/80-09/27/84	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00035	WIND VELOCITY (MILES PER HOUR)	07/11/80-09/27/84	2	2.	2.	4.	0.	8.	2.828	**	**	**	**
00045	PRECIPITATION, TOTAL (INCHES PER DAY)	07/11/80-09/27/84	2	0.195	0.195	0.39	0.	0.076	0.276	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	07/03/72-09/27/84	84	4.	10.919	58.	0.03	220.838	14.861	0.85	2.	13.5	41.
00070p	TURBIDITY, (JACKSON CANDLE UNITS)	07/03/72-07/11/80	92	10.	23.815	500.	0.	3606.328	60.053	2.	5.25	20.	38.5
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/03/72-07/11/80	82	462.5	472.89	1200.	100.	79377.926	281.741	160.	217.5	650.	905.
00300p	OXYGEN, DISSOLVED MG/L	07/03/72-09/27/84	92	10.9	10.996	15.	7.2	2.022	1.422	9.43	10.1	11.775	12.94
00400	PH (STANDARD UNITS)	09/20/80-09/27/84	6	7.05	7.178	8.47	5.5	1.278	1.13	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/20/80-09/27/84	6	7.025	6.221	8.47	5.5	2.379	1.542	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/20/80-09/27/84	6	0.094	0.602	3.162	0.003	1.582	1.258	**	**	**	**
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/03/72-07/11/80	92	0.4	0.84	7.	0.	2.265	1.505	0.065	0.2	0.5	2.58
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/04/74-08/14/76	30	2.41	2.887	9.1	0.72	3.215	1.793	1.125	1.575	3.65	4.517
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	07/03/72-08/14/76	46	0.135	0.189	1.1	0.02	0.046	0.214	0.054	0.09	0.18	0.327
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	07/03/72-07/11/80	92	103.5	113.402	260.	30.	2976.727	54.559	56.5	70.	143.75	207.
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	09/27/84-09/27/84	1	6.	6.	6.	6.	0.	0.	**	**	**	**

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

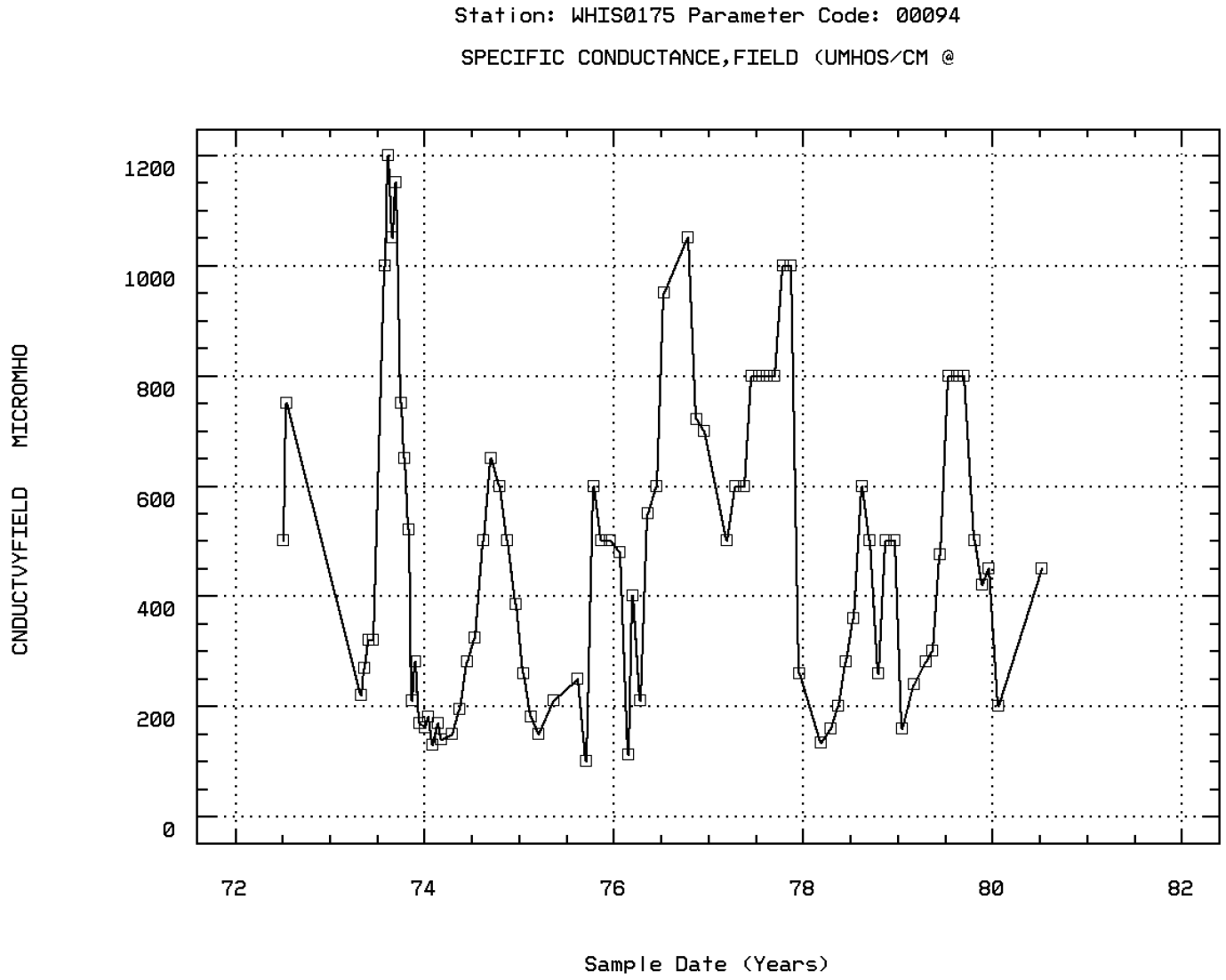
EPA Water Quality Criteria Analysis for Station: WHIS0175

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	92	7	0.08	42	2	0.05	25	4	0.16	25	1	0.04			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	92	0	0.00	43	0	0.00	24	0	0.00	25	0	0.00			
00400	PH	Fresh Chronic	9.	6	0	0.00	3	0	0.00	2	0	0.00	1	0	0.00			
		Other-Lo Lim.	6.5	6	1	0.17	3	0	0.00	2	1	0.50	1	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	92	0	0.00	42	0	0.00	25	0	0.00	25	0	0.00			
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	1	0	0.00	1	0	0.00									

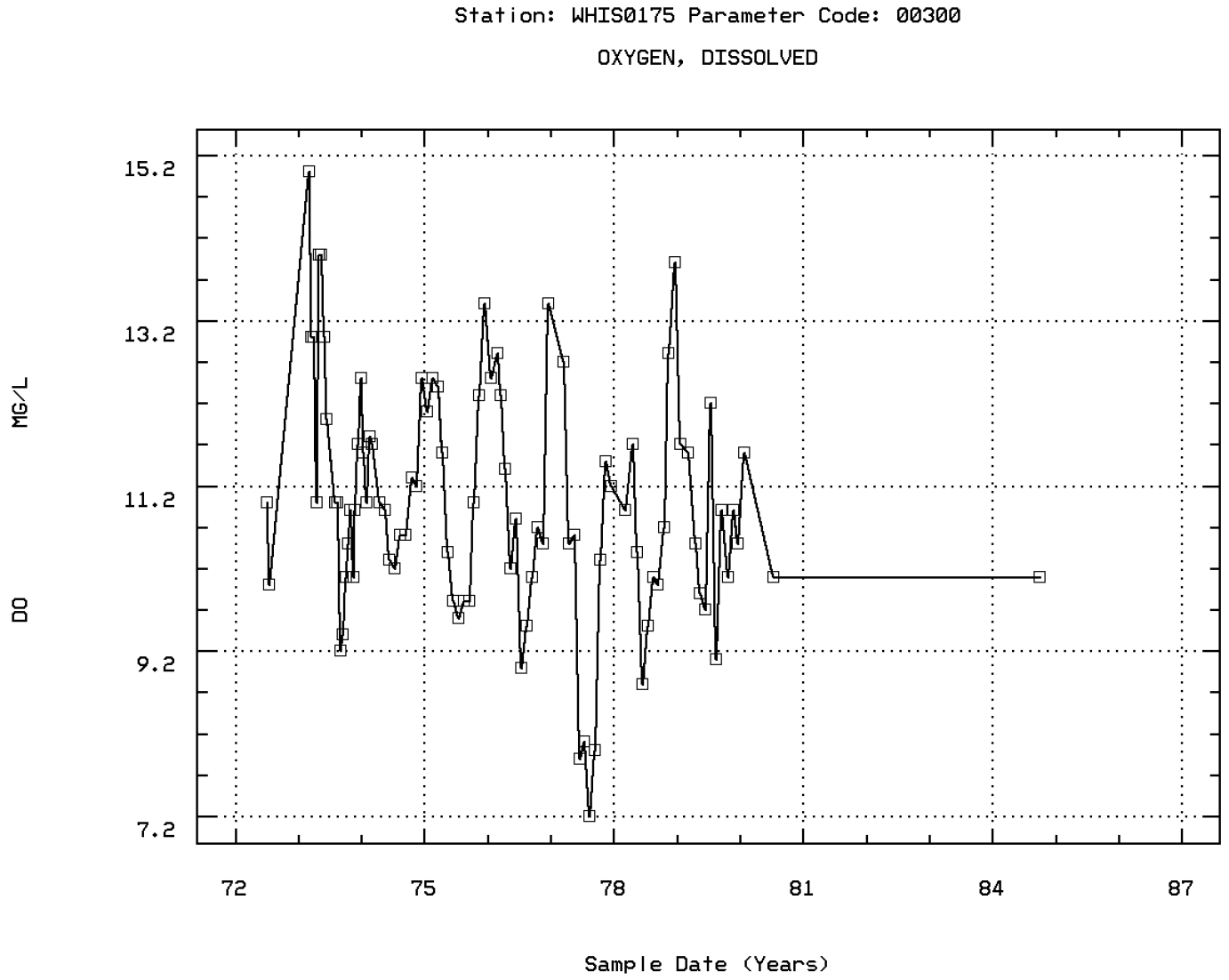
& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter



WILLOW CREEK



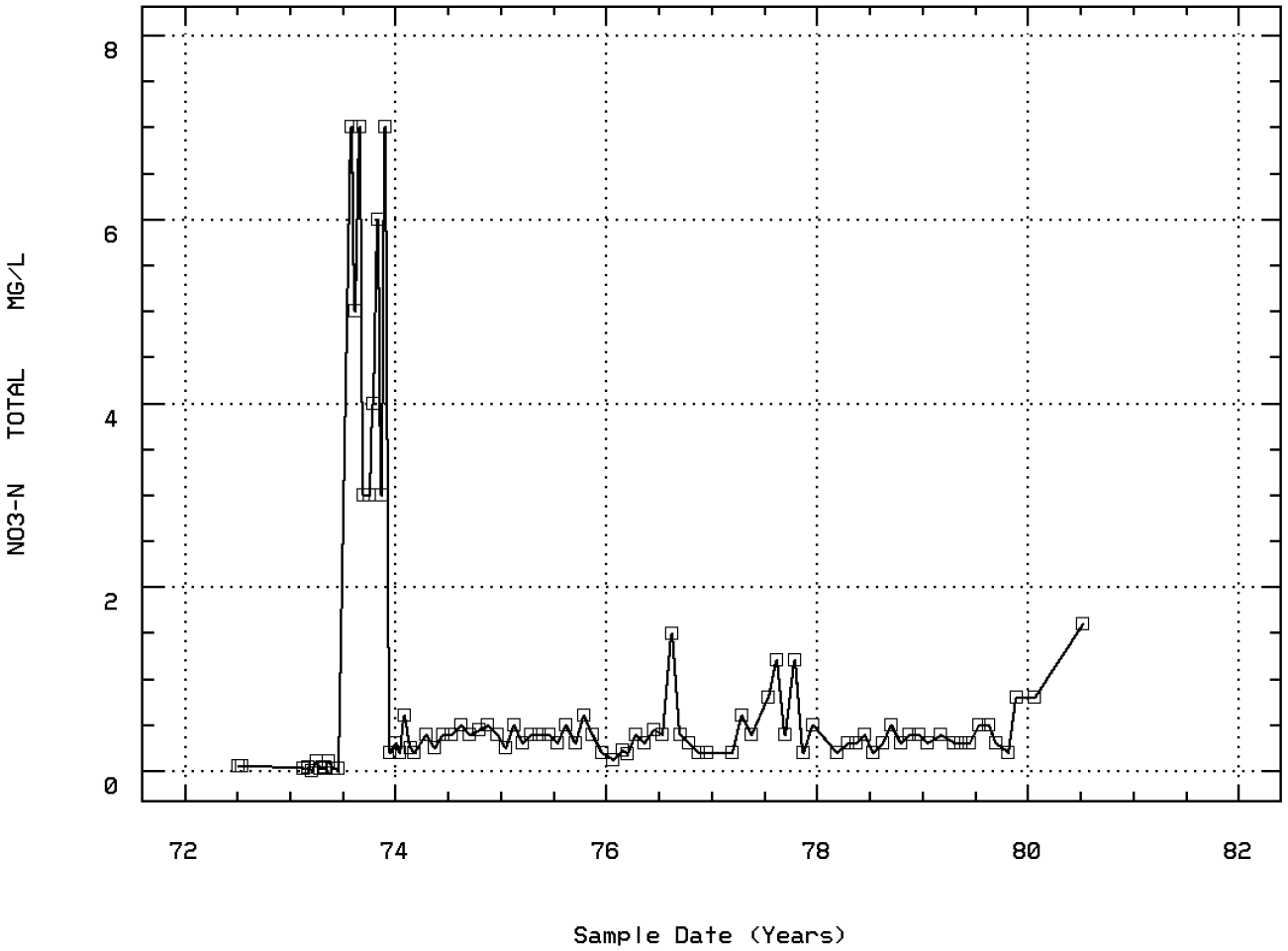
WILLOW CREEK



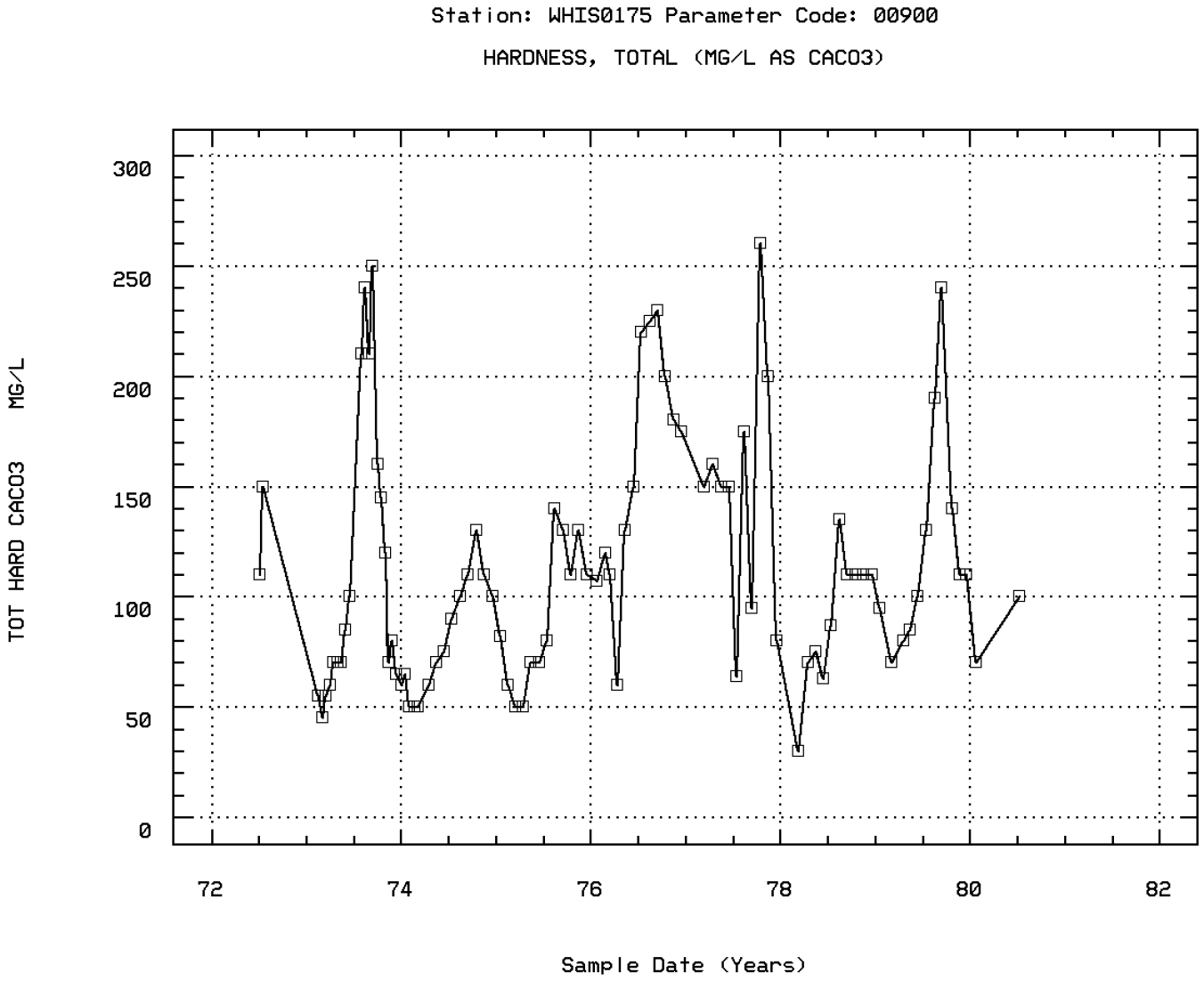
WILLOW CREEK

Station: WHIS0175 Parameter Code: 00620

NITRATE NITROGEN, TOTAL (MG/L AS N)



WILLOW CREEK



WILLOW CREEK

Annual Analysis for 1972 - Station WHIS0175

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/03/72-09/27/84	2	16.7	16.7	17.8	15.6	2.42	1.556	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/03/72-09/27/84	2	20.85	20.85	21.7	20.	1.445	1.202	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	07/03/72-09/27/84	2	2.5	2.5	3.	2.	0.5	0.707	**	**	**	**
00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/03/72-07/11/80	2	20.	20.	25.	15.	50.	7.071	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/03/72-07/11/80	2	625.	625.	750.	500.	31250.	176.777	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/03/72-09/27/84	2	10.5	10.5	11.	10.	0.5	0.707	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/03/72-07/11/80	2	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/03/72-07/11/80	2	130.	130.	150.	110.	800.	28.284	**	**	**	**

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

Annual Analysis for 1973 - Station WHIS0175

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/03/72-09/27/84	19	10.6	11.695	18.9	7.2	13.334	3.652	7.2	8.9	13.9	18.9
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/03/72-09/27/84	19	16.	17.453	31.1	5.6	44.284	6.655	8.3	12.2	21.7	28.3
00061	FLOW, STREAM, INSTANTANEOUS CFS	07/03/72-09/27/84	14	4.	8.871	28.	0.7	88.753	9.421	0.7	0.95	18.	25.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/03/72-07/11/80	19	25.	25.684	60.	8.	306.228	17.499	8.	9.	40.	50.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/03/72-07/11/80	14	420.	579.286	1200.	170.	146145.604	382.29	190.	257.5	1012.5	1175.
00300	OXYGEN, DISSOLVED MG/L	07/03/72-09/27/84	18	11.	11.656	15.	9.2	2.791	1.671	9.38	10.4	13.	14.1
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/03/72-07/11/80	19	0.2	2.401	7.	0.	7.866	2.805	0.03	0.03	5.	7.
00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/03/72-07/11/80	19	80.	113.684	250.	45.	4605.117	67.861	55.	65.	160.	240.

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0175

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/03/72-09/27/84	14	10.	10.307	17.6	5.6	12.373	3.518	5.8	7.8	12.475	16.3
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/03/72-09/27/84	14	14.	14.871	27.	4.4	55.405	7.443	4.7	7.975	21.	26.
00061	FLOW, STREAM, INSTANTANEOUS CFS	07/03/72-09/27/84	14	16.5	24.643	58.	2.	481.478	21.943	2.5	4.	47.25	57.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/03/72-07/11/80	14	11.	47.571	500.	3.	17028.879	130.495	3.	8.75	22.	266.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/03/72-07/11/80	14	237.5	311.929	650.	130.	33625.148	183.372	135.	159.	500.	625.
00300	OXYGEN, DISSOLVED MG/L	07/03/72-09/27/84	14	11.1	11.229	12.5	10.2	0.527	0.726	10.25	10.6	11.725	12.5
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/03/72-07/11/80	14	0.4	0.375	0.6	0.2	0.015	0.12	0.2	0.25	0.463	0.55
00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/03/72-07/11/80	14	72.5	80.	130.	50.	696.154	26.385	50.	57.5	102.5	120.

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0175

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/03/72-09/27/84	12	9.	10.667	18.	4.	29.333	5.416	4.3	6.	16.75	18.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/03/72-09/27/84	12	16.5	16.667	27.	3.	67.333	8.206	4.5	9.5	25.5	27.
00061	FLOW, STREAM, INSTANTANEOUS CFS	07/03/72-09/27/84	12	6.5	14.167	50.	2.	261.424	16.169	2.	3.25	23.75	47.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/03/72-07/11/80	12	14.	14.333	30.	0.	87.515	9.355	1.2	5.75	20.	29.1
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/03/72-07/11/80	9	250.	305.556	600.	100.	32352.778	179.869	100.	165.	500.	600.
00300	OXYGEN, DISSOLVED MG/L	07/03/72-09/27/84	12	11.3	11.225	13.4	9.6	1.751	1.323	9.66	9.8	12.375	13.13
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/03/72-07/11/80	12	0.4	0.379	0.6	0.2	0.013	0.116	0.215	0.3	0.475	0.57
00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/03/72-07/11/80	12	81.	90.167	140.	50.	1051.242	32.423	50.	62.5	125.	137.

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

Annual Analysis for 1976 - Station WHIS0175

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/03/72-09/27/84	12	11.	11.083	22.	3.	27.356	5.23	3.9	7.25	15.25	20.2
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/03/72-09/27/84	12	17.5	19.5	31.	6.	69.727	8.35	6.6	13.75	27.75	30.7
00061	FLOW, STREAM, INSTANTANEOUS CFS	07/03/72-09/27/84	12	2.	4.258	18.	0.2	23.568	4.855	0.41	2.	5.5	15.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/03/72-07/11/80	12	10.	14.75	42.	2.	139.295	11.802	3.2	7.25	23.25	38.4
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/03/72-07/11/80	10	575.	577.2	1050.	112.	87927.289	296.525	121.8	352.5	777.5	1040.
00300	OXYGEN, DISSOLVED MG/L	07/03/72-09/27/84	12	10.75	11.1	13.4	9.	1.915	1.384	9.15	10.125	12.45	13.22
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/03/72-07/11/80	12	0.3	0.39	1.5	0.12	0.133	0.365	0.138	0.2	0.4	1.185
00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/03/72-07/11/80	12	162.5	158.917	230.	60.	2985.902	54.643	74.1	112.5	215.	228.5

** - 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 WHIS0175

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/03/72-09/27/84	10	13.	16.3	30.	7.	72.233	8.499	7.1	8.75	26.	29.6
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/03/72-09/27/84	10	22.5	23.6	47.	8.	136.933	11.702	8.1	15.	31.	45.7
00061	FLOW, STREAM, INSTANTANEOUS CFS	07/03/72-09/27/84	10	2.	5.287	42.	0.03	167.209	12.931	0.031	0.16	2.	38.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/03/72-07/11/80	10	9.	22.2	140.	3.	1747.511	41.803	3.1	4.	16.5	128.1
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/03/72-07/11/80	10	800.	716.	1000.	260.	52337.778	228.775	284.	575.	850.	1000.
00300	OXYGEN, DISSOLVED MG/L	07/03/72-09/27/84	10	10.4	9.8	12.7	7.2	3.46	1.86	7.27	7.975	11.275	12.58
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/03/72-07/11/80	10	0.55	0.65	1.2	0.2	0.145	0.381	0.2	0.35	1.05	1.2
00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/03/72-07/11/80	10	150.	148.4	260.	64.	3402.267	58.329	65.6	91.25	181.25	254.

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0175

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/03/72-09/27/84	9	13.	12.667	20.	4.	22.5	4.743	4.	9.5	16.	20.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/03/72-09/27/84	10	20.5	20.	29.	9.	38.889	6.236	9.4	15.25	25.5	28.8
00061	FLOW, STREAM, INSTANTANEOUS CFS	07/03/72-09/27/84	7	5.	11.714	50.	2.	301.238	17.356	**	**	**	**
00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/03/72-07/11/80	10	1.5	4.9	15.	0.	37.878	6.154	0.	0.	11.25	15.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/03/72-07/11/80	10	320.	349.3	600.	133.	27642.678	166.261	135.7	190.	500.	590.
00300	OXYGEN, DISSOLVED MG/L	07/03/72-09/27/84	10	10.55	10.88	13.9	8.8	2.373	1.54	8.87	9.875	11.975	13.79
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/03/72-07/11/80	10	0.3	0.33	0.5	0.2	0.009	0.095	0.2	0.275	0.4	0.49
00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/03/72-07/11/80	10	98.5	90.	135.	30.	954.222	30.89	33.3	68.25	110.	132.5

** - 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 1979 - Station WHIS0175

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/03/72-09/27/84	11	12.	13.355	37.2	5.	89.731	9.473	5.	5.6	17.8	33.98
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/03/72-09/27/84	11	21.	22.4	41.1	13.3	66.988	8.185	13.44	15.6	28.9	38.76
00061	FLOW, STREAM, INSTANTANEOUS CFS	07/03/72-09/27/84	10	5.	5.9	15.	1.	20.767	4.557	1.	1.75	9.25	14.5
00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/03/72-07/11/80	11	8.	32.455	280.	0.	6779.873	82.34	0.2	2.	15.	228.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/03/72-07/11/80	11	450.	475.	800.	160.	54425.	233.292	176.	280.	800.	800.
00300	OXYGEN, DISSOLVED MG/L	07/03/72-09/27/84	11	10.5	10.645	12.2	9.1	0.875	0.935	9.22	9.9	11.6	12.1
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/03/72-07/11/80	11	0.3	0.445	1.	0.2	0.061	0.246	0.22	0.3	0.5	0.96
00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/03/72-07/11/80	11	110.	122.727	240.	70.	2626.818	51.252	72.	85.	140.	230.

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0175

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/03/72-09/27/84	2	11.7	11.7	15.6	7.8	30.42	5.515	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/03/72-09/27/84	2	25.	25.	28.9	21.1	30.42	5.515	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	07/03/72-09/27/84	2	12.5	12.5	21.	4.	144.5	12.021	**	**	**	**
00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/03/72-07/11/80	2	10.	10.	12.	8.	8.	2.828	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/03/72-07/11/80	2	325.	325.	450.	200.	31250.	176.777	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/03/72-09/27/84	2	10.85	10.85	11.6	10.1	1.125	1.061	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/03/72-07/11/80	2	1.2	1.2	1.6	0.8	0.32	0.566	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/03/72-07/11/80	2	85.	85.	100.	70.	450.	21.213	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0175

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/03/72-09/27/84	1	14.	14.	14.	14.	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/03/72-09/27/84	1	26.	26.	26.	26.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	07/03/72-09/27/84	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/03/72-09/27/84	1	10.1	10.1	10.1	10.1	0.	0.	**	**	**	**

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Seasonal Analysis for Season #1: 6/01 to 11/09 - Station WHIS0175

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/03/72-09/27/84	43	15.6	16.409	37.2	8.9	30.571	5.529	11.04	12.2	18.	24.4
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/03/72-09/27/84	43	25.	24.956	47.	15.	40.906	6.396	17.4	21.	28.9	31.06
00061	FLOW, STREAM, INSTANTANEOUS CFS	07/03/72-09/27/84	42	2.	2.956	10.	0.03	6.531	2.556	0.32	1.	4.	8.
00070p	TURBIDITY, (JACKSON CANDLE UNITS)	07/03/72-07/11/80	42	14.	21.452	280.	0.	1804.693	42.482	3.	7.25	21.25	37.6
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/03/72-07/11/80	38	600.	635.263	1200.	100.	77302.632	278.034	278.	427.5	800.	1050.
00300p	OXYGEN, DISSOLVED MG/L	07/03/72-09/27/84	43	10.1	10.093	13.	7.2	1.253	1.119	8.38	9.5	10.8	11.18
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/03/72-07/11/80	42	0.425	1.242	7.	0.03	3.453	1.858	0.095	0.3	1.2	4.7
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	07/03/72-07/11/80	42	130.	142.595	260.	63.	3224.539	56.785	76.5	100.	192.5	237.

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

Seasonal Analysis for Season #2: 11/10 to 2/20 - Station WHIS0175

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/03/72-09/27/84	24	6.6	6.842	10.6	3.	4.23	2.057	4.	5.15	8.225	10.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/03/72-09/27/84	25	12.	12.104	21.1	4.4	22.887	4.784	5.36	8.65	16.	19.4
00061	FLOW, STREAM, INSTANTANEOUS CFS	07/03/72-09/27/84	22	7.5	17.5	56.	2.	298.262	17.27	2.	4.	28.25	46.7
00070p	TURBIDITY, (JACKSON CANDLE UNITS)	07/03/72-07/11/80	25	10.	39.84	500.	0.	10048.973	100.245	1.	3.5	31.	92.
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/03/72-07/11/80	24	332.5	375.708	1000.	130.	48574.216	220.396	161.	180.	500.	710.
00300p	OXYGEN, DISSOLVED MG/L	07/03/72-09/27/84	24	11.7	11.838	13.9	10.1	0.967	0.983	10.5	11.05	12.5	13.4
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/03/72-07/11/80	25	0.4	0.75	7.	0.03	2.022	1.422	0.168	0.2	0.55	1.8
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	07/03/72-07/11/80	25	95.	97.36	200.	50.	1625.99	40.324	53.	65.	110.	177.

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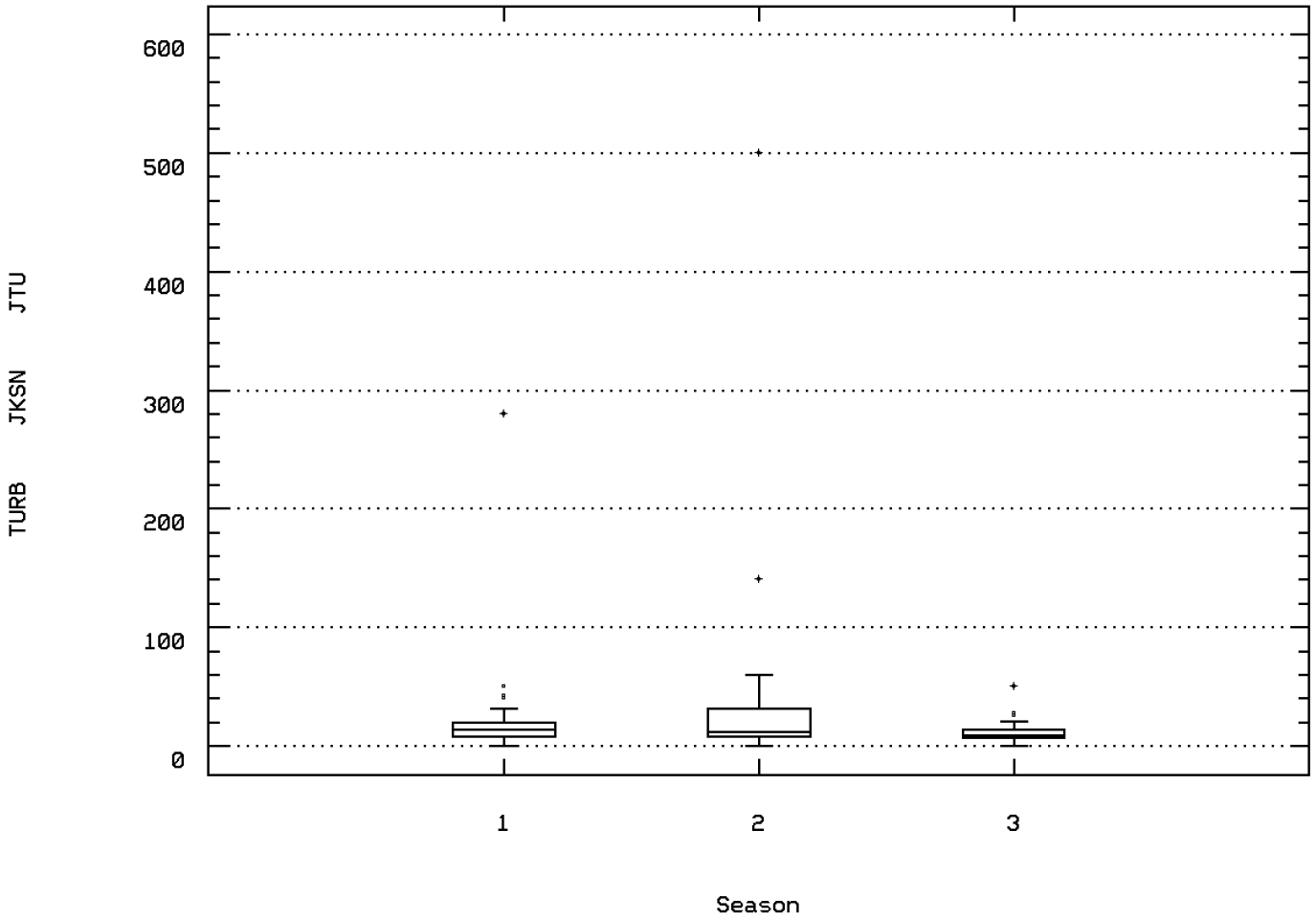
Seasonal Analysis for Season #3: 2/21 to 5/31 - Station WHIS0175

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/03/72-09/27/84	25	10.	10.096	16.7	7.	7.038	2.653	7.	8.	12.1	13.4
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/03/72-09/27/84	25	16.	15.928	28.3	3.	38.367	6.194	7.6	11.95	20.	23.4
00061	FLOW, STREAM, INSTANTANEOUS CFS	07/03/72-09/27/84	20	14.5	20.4	58.	2.	336.042	18.331	2.	6.5	35.75	50.
00070p	TURBIDITY, (JACKSON CANDLE UNITS)	07/03/72-07/11/80	25	9.	11.76	50.	0.	113.357	10.647	1.6	5.5	14.	26.8
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/03/72-07/11/80	20	215.	281.	600.	112.	25644.105	160.138	133.7	152.5	375.	595.
00300p	OXYGEN, DISSOLVED MG/L	07/03/72-09/27/84	25	11.6	11.74	15.	9.9	1.8	1.342	10.32	10.55	12.75	14.
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/03/72-07/11/80	25	0.3	0.255	0.6	0.	0.022	0.148	0.036	0.145	0.4	0.4
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	07/03/72-07/11/80	25	70.	80.4	160.	30.	1258.167	35.471	48.	57.5	97.5	150.

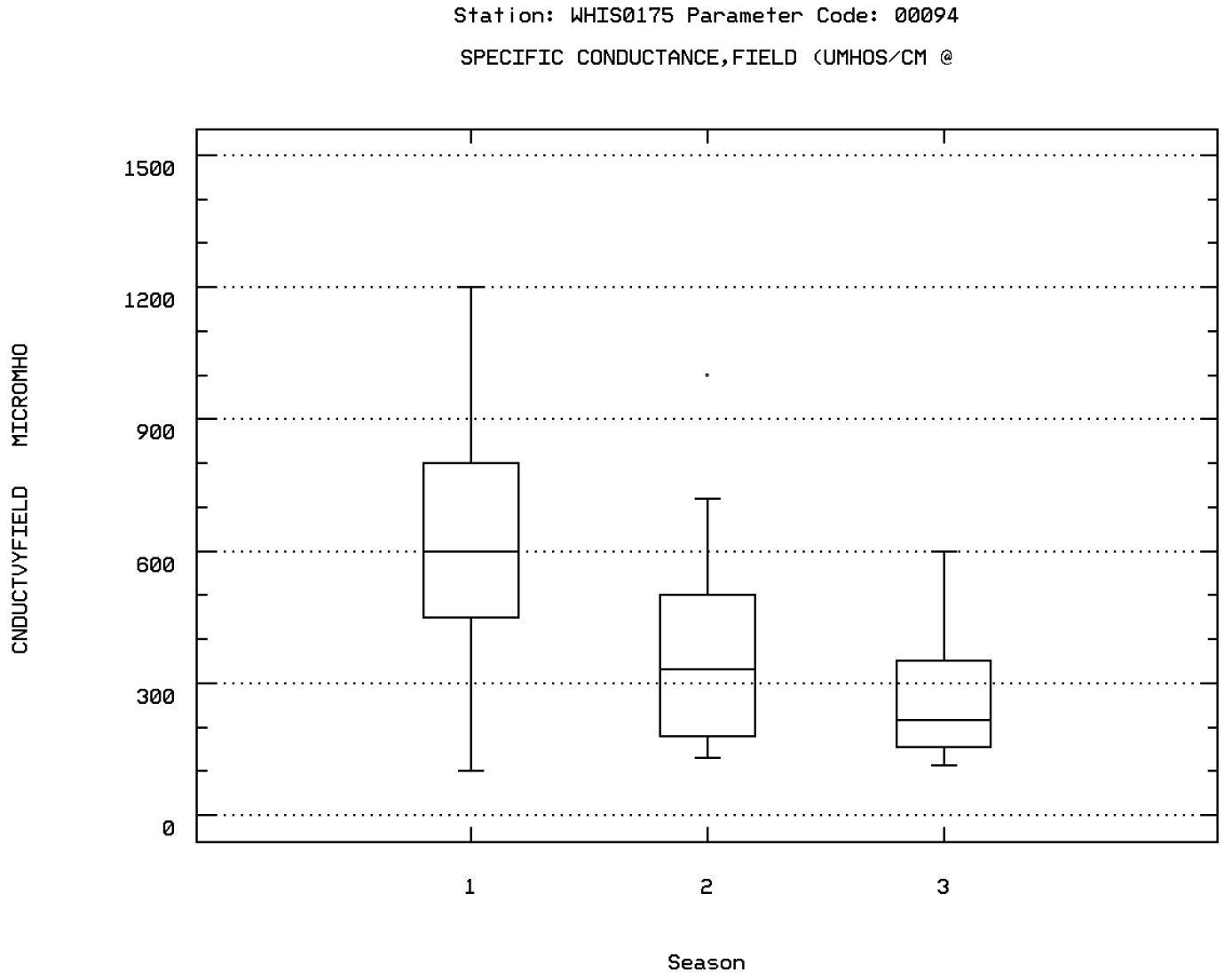
** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station: WHIS0175 Parameter Code: 00070

TURBIDITY, (JACKSON CANDLE UNITS)



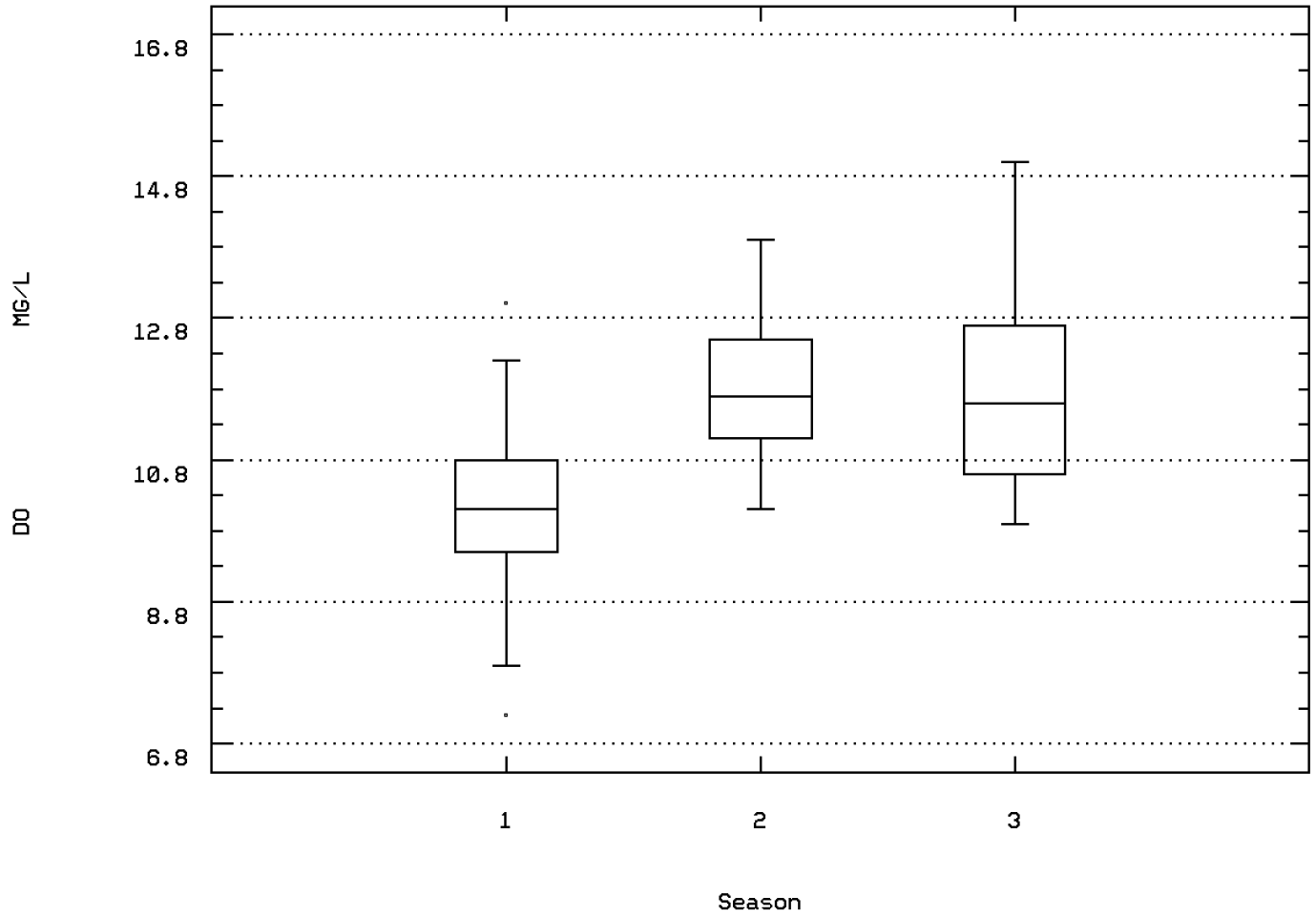
WILLOW CREEK



WILLOW CREEK

Station: WHIS0175 Parameter Code: 00300

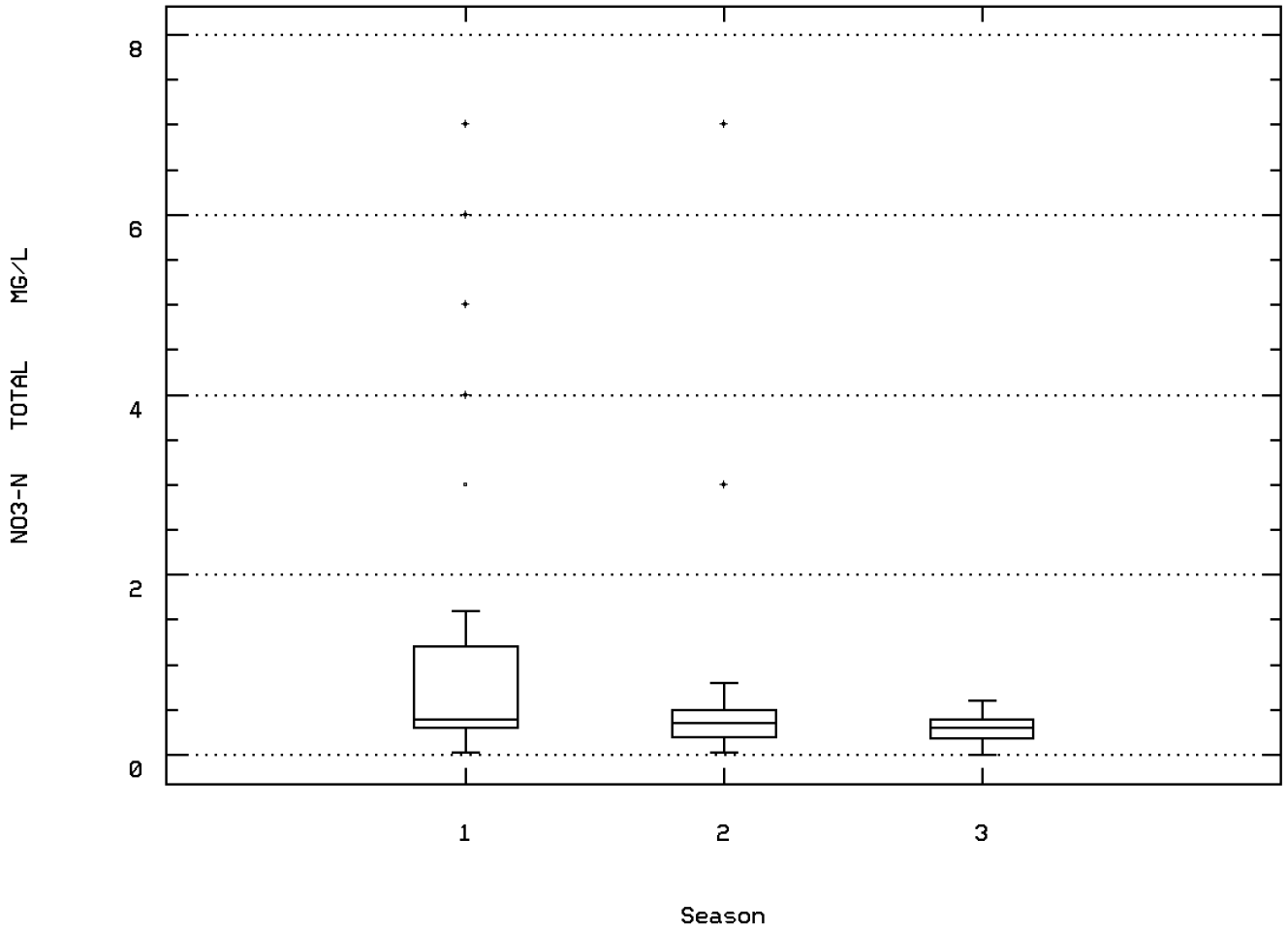
OXYGEN, DISSOLVED



WILLOW CREEK

Station: WHIS0175 Parameter Code: 00620

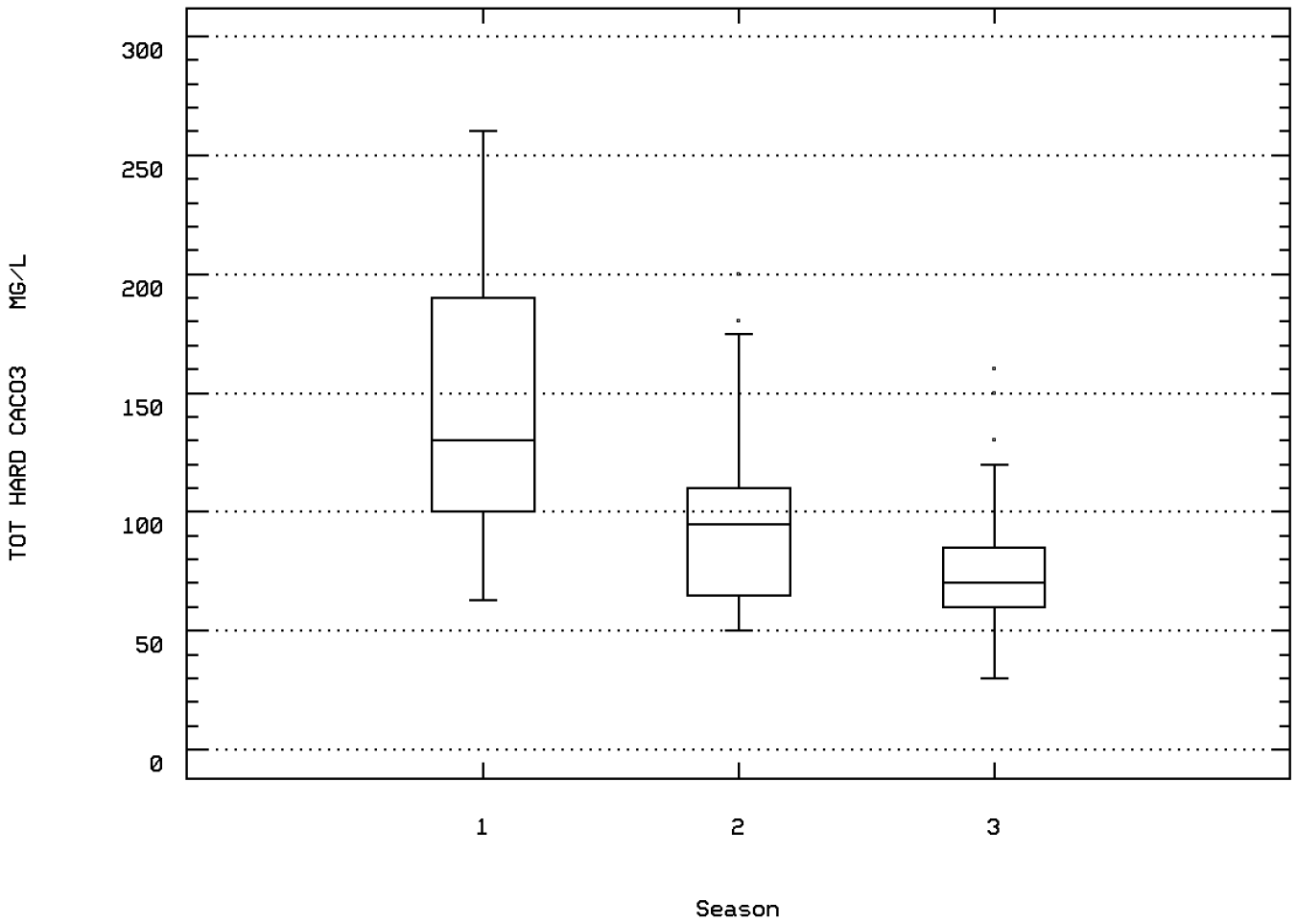
NITRATE NITROGEN, TOTAL (MG/L AS N)



WILLOW CREEK

Station: WHIS0175 Parameter Code: 00900

HARDNESS, TOTAL (MG/L AS CACO3)



WILLOW CREEK

Station Inventory for Station: WHIS0176

NPS Station ID: WHIS0176
LAT/LON: 40.670559/-122.532782
Agency: 11TOX09
Date Created: 10/20/84
Location: SLICKROCK CK 100 FT DOWNSTREAM FROM LOWER LAKE
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM/MINE
STORET Station ID(s): IRONMT-61 /SLICKROCK-61
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 18020112
Depth of Water: 999
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112
RF1 Mile Point: 0.000
Distance from RF1: 19.50
On/Off RF1:
RF3 Index: 18020112011801.47
RF3 Mile Point: 2.50
Distance from RF3: 0.05
On/Off RF3:
Description:

Parameter Inventory for Station: WHIS0176

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/30/84-05/30/84	1	30.5	30.5	30.5	30.5	0.	0.	**	**	**	**
00058	FLOW, RATE GALLONS/MIN	05/30/84-05/30/84	1	0.06	0.06	0.06	0.06	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	05/30/84-05/30/84	1	8.6	8.6	8.6	8.6	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/30/84-05/30/84	1	8.6	8.6	8.6	8.6	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/30/84-05/30/84	1	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/30/84-05/30/84	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	05/30/84-05/30/84	1	2910.	2910.	2910.	2910.	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	05/30/84-05/30/84	1	3980.	3980.	3980.	3980.	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	05/30/84-05/30/84	1 ##	100.	100.	100.	100.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	05/30/84-05/30/84	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	05/30/84-05/30/84	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00956	SILICA, TOTAL (MG/L AS SI02)	05/30/84-05/30/84	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	05/30/84-05/30/84	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	05/30/84-05/30/84	1	7.	7.	7.	7.	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	05/30/84-05/30/84	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	05/30/84-05/30/84	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	05/30/84-05/30/84	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	05/30/84-05/30/84	1	13.	13.	13.	13.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	05/30/84-05/30/84	1	7.	7.	7.	7.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	05/30/84-05/30/84	1	628.	628.	628.	628.	0.	0.	**	**	**	**
01047	IRON, FERROUS (UG/L AS FE)	05/30/84-05/30/84	1	628.	628.	628.	628.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	05/30/84-05/30/84	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	05/30/84-05/30/84	1	89.	89.	89.	89.	0.	0.	**	**	**	**
01059	THALLIUM, TOTAL (UG/L AS TL)	05/30/84-05/30/84	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	05/30/84-05/30/84	1 ##	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	05/30/84-05/30/84	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01087	VANADIUM, TOTAL (UG/L AS V)	05/30/84-05/30/84	1	17.	17.	17.	17.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	05/30/84-05/30/84	1	9.	9.	9.	9.	0.	0.	**	**	**	**
01097	ANTIMONY, TOTAL (UG/L AS SB)	05/30/84-05/30/84	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	05/30/84-05/30/84	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01171	PLATINUM,WHOLE WATER SAMPLE,UG/L	05/30/84-05/30/84	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/30/84-05/30/84	1	54.	54.	54.	54.	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	05/30/84-05/30/84	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
71910	GOLD, TOTAL (UG/L AS AU)	05/30/84-05/30/84	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
82032	CALCIUM - TOTAL UG/L (AS CA)	05/30/84-05/30/84	1	3310.	3310.	3310.	3310.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0176

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00							1	0	0.00			
		Drinking Water	250.	1	0	0.00							1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00							1	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
01007	BARIUM, TOTAL	Drinking Water	2000.	1	0	0.00							1	0	0.00			
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	1	0	0.00							1	0	0.00			
		Drinking Water	4.	1	0	0.00							1	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1	0	0.00							1	0	0.00			
		Drinking Water	5.	1	0	0.00							1	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00							1	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	1	0	0.00							1	0	0.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00							1	0	0.00			
		Drinking Water	15.	1	0	0.00							1	0	0.00			
01059	THALLIUM, TOTAL	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	2.	0 &	0	0.00												
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00							1	0	0.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
01097	ANTIMONY, TOTAL	Fresh Acute	88.	1	0	0.00							1	0	0.00			
		Drinking Water	6.	0 &	0	0.00												
01147	SELENIUM, TOTAL	Fresh Acute	20.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00							1	0	0.00			
		Drinking Water	2.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: WHIS0177

NPS Station ID: WHIS0177 LAT/LON: 40.671337/-122.657309 Agency: 11NPSWRD Date Created: 04/10/99
Location: WILLOW CREEK; 1ST GULCH WEST OF BOUNDARY FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): WHIS_NPS_20
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 18020112 Depth of Water: 0 Aquifer:
Major Basin: CALIFORNIA Elevation: 0 Water Body Id:
Minor Basin: SACRAMENTO RIVER ECO Region:
RF1 Index: 18020112 RF1 Mile Point: 0.000 Distance from RF1: 0.80 On/Off RF1:
RF3 Index: 18010211001600.95 RF3 Mile Point: 5.98 Distance from RF3: 0.04 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE FRENCH GULCH CA 7.5' SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE WAS DESCRIBED BY THE NPS AS "WILLOW CREEK; FIRST GULCH WEST OF BOUNDARY" OUTSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA WERE FROM MISCELLANEOUS PAPERS IN A BROWN FOLDER LABELED "WATER QUALITY." THE FOLDER WAS FROM THE PARK. THE LOCATION OF THE STATION WAS ESTIMATED USING SITE DESCRIPTIONS. LATITUDE AND LONGITUDE VALUES WERE OBTAINED BY DIGITIZING A POINT MARKED ON A QUADRANGLE. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; PO BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NPS WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0177

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400	PH (STANDARD UNITS)	01/23/81-01/23/81	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	01/23/81-01/23/81	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/23/81-01/23/81	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0177

			Total	Exceed	Prop.	----------6/01-11/09----------			----------11/10-2/20----------			----------2/21-5/31----------			----------n/a----------		
Parameter	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400 PH	Fresh Chronic	9.	1	0	0.00				1	0	0.00						
	Other-Lo Lim.	6.5	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: WHIS0178

NPS Station ID: WHIS0178
LAT/LON: 40.671587/-122.650116
Agency: 11NPSWRD
Date Created: 04/10/99
Location: WILLOW CREEK; WEST BOUNDARY
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): WHIS_NPS_19
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 18020112
Depth of Water: 0
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112
RF1 Mile Point: 0.000
Distance from RF1: 0.80
On/Off RF1:
RF3 Index: 18010211001600.95
RF3 Mile Point: 5.98
Distance from RF3: 0.04
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE FRENCH GULCH CA 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE WAS DESCRIBED BY THE NPS AS "WILLOW CREEK; WEST BOUNDARY" INSIDE OF THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA WERE FROM MISCELLANEOUS PAPERS IN A BROWN FOLDER LABELED "WATER QUALITY." THE FOLDER WAS FROM THE PARK. THE LOCATION OF THE STATION WAS ESTIMATED USING SITE DESCRIPTIONS. LATITUDE AND LONGITUDE VALUES WERE OBTAINED BY DIGITIZING A POINT MARKED ON A QUADRANGLE. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; PO BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NPS WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0178

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400	PH (STANDARD UNITS)	09/20/80-09/10/81	4	7.45	7.25	8.2	5.9	0.977	0.988	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/20/80-09/10/81	4	7.382	6.472	8.2	5.9	1.783	1.335	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/20/80-09/10/81	4	0.042	0.337	1.259	0.006	0.378	0.615	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0178

			Total	Exceed	Prop.	6/01-11/09			11/10-2/20			2/21-5/31			n/a		
Parameter	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400 PH	Fresh Chronic	9.	4	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00			
	Other-Lo Lim.	6.5	4	1	0.25	2	0	0.00	1	1	1.00	1	0	0.00			

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

Station Inventory for Station: WHIS0179

NPS Station ID: WHIS0179 LAT/LON: 40.672198/-122.660365 Agency: 11NPSWRD Date Created: 04/10/99
Location: WILLOW CREEK; SAW PIT JUNCTION ROAD JUNCTION FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): WHIS_NPS_28
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 18020112 Depth of Water: 0 Aquifer:
Major Basin: CALIFORNIA Elevation: 0 Water Body Id:
Minor Basin: SACRAMENTO RIVER ECO Region:
RF1 Index: 18020112 RF1 Mile Point: 0.000 Distance from RF1: 0.80 On/Off RF1:
RF3 Index: 18010211001600.95 RF3 Mile Point: 5.98 Distance from RF3: 0.04 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE FRENCH GULCH CA 7.5 MINUTE SERIES (TOPO.) QUADRANGLE. THE SITE WAS DESCRIBED BY THE NPS AS "WILLOW CREEK; SAW PIT JUNCTION ROAD JUNCTION" INSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA WERE FROM MISCELLANEOUS PAPERS IN A BROWN FOLDER LABELED "WATER QUALITY." THE FOLDER WAS FROM THE PARK. THE LOCATION OF THE STATION WAS ESTIMATED USING SITE DESCRIPTIONS. LATITUDE AND LONGITUDE VALUES WERE OBTAINED BY DIGITIZING A POINT MARKED ON A QUADRANGLE. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; PO BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NPS WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0179

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400	PH (STANDARD UNITS)	09/20/80-09/10/81	5	7.2	7.16	8.2	6.2	0.823	0.907	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/20/80-09/10/81	5	7.2	6.615	8.2	6.2	1.195	1.093	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/20/80-09/10/81	5	0.063	0.243	0.631	0.006	0.09	0.299	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0179

				Total	Exceed	Prop.	----------6/01-11/09----------			----------11/10-2/20----------			----------2/21-5/31----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	5	0	0.00	2	0	0.00	2	0	0.00	1	0	0.00			
		Other-Lo Lim.	6.5	5	2	0.40	2	1	0.50	2	1	0.50	1	0	0.00			

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

Station Inventory for Station: WHIS0180

NPS Station ID: WHIS0180
LAT/LON: 40.672226/-122.534448
Agency: 11TOX09
Date Created: 10/20/84
Location: SPRING INTO UPPER LAKE AT IRON MT MINE
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/SPRING/MINE
STORET Station ID(s): IRONMT-60 /SLICKROCK-60
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 18020112
Depth of Water: 99
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112
RF1 Mile Point: 0.000
Distance from RF1: 1.20
On/Off RF1:
RF3 Index: 18020112001300.00
RF3 Mile Point: 0.70
Distance from RF3: 0.20
On/Off RF3:
Description:

Parameter Inventory for Station: WHIS0180

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: WHIS0181

NPS Station ID: WHIS0181
LAT/LON: 40.672503/-122.512505
Agency: 11TOX09
Date Created: 10/20/84
Location: RUNOFF FROM TAILNNGS NR MILL SITE
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/OUTFL/AMBNT/STREAM/NONPNT/MINE
STORET Station ID(s): IRONMT-14 /BOULDER-14
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 18020112
Depth of Water: 999
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112
RF1 Mile Point: 0.000
Distance from RF1: 9.70
On/Off RF1:
RF3 Index: 18010211033800.00
RF3 Mile Point: 1.30
Distance from RF3: 0.72
On/Off RF3:
Description:

Parameter Inventory for Station: WHIS0181

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: WHIS0182

NPS Station ID: WHIS0182 LAT/LON: 40.673059/-122.673310 Agency: 11NPSWRD Date Created: 04/10/99
Location: WILLOW CK; ACROSS FROM 1ST RES W OF BOUNDARY FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): WHIS_NPS_27
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 18020112 Depth of Water: 0 Aquifer:
Major Basin: CALIFORNIA Elevation: 0 Water Body Id:
Minor Basin: SACRAMENTO RIVER ECO Region:
RF1 Index: 18020112 RF1 Mile Point: 0.000 Distance from RF1: 0.80 On/Off RF1:
RF3 Index: 18010211001600.95 RF3 Mile Point: 5.98 Distance from RF3: 0.04 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE FRENCH GULCH CA 7.5' SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE WAS DESCRIBED BY THE NPS AS "WILLOW CREEK; ACROSS FROM FIRST RES WEST OF BOUNDARY" INSIDE OF THE WHISKEYTOWN-SHASTA- TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA WERE FROM MISCELLANEOUS PAPERS IN A BROWN FOLDER LABELED "WATER QUALITY." THE FOLDER WAS FROM THE PARK. THE LOCATION OF THE STATION WAS ESTIMATED USING SITE DESCRIPTIONS. LATITUDE AND LONGITUDE VALUES WERE OBTAINED BY DIGITIZING A POINT MARKED ON A QUADRANGLE. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; PO BOX 188; WHISKEYTOWN CA 96095 (TEL 916-241-6584). DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NPS WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0182

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400	PH (STANDARD UNITS)	09/20/80-09/10/81	5	7.4	7.44	8.6	6.2	0.768	0.876	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/20/80-09/10/81	5	7.4	6.823	8.6	6.2	1.244	1.116	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/20/80-09/10/81	5	0.04	0.15	0.631	0.003	0.073	0.27	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0182

			Total	Exceed	Prop.	----------6/01-11/09----------			----------11/10-2/20----------			----------2/21-5/31----------			----------n/a----------		
Parameter	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400 PH	Fresh Chronic	9.	5	0	0.00	2	0	0.00	2	0	0.00	1	0	0.00			
	Other-Lo Lim.	6.5	5	1	0.20	2	0	0.00	2	1	0.50	1	0	0.00			

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

Station Inventory for Station: WHIS0183

NPS Station ID: WHIS0183 | LAT/LON: 40.673338/-122.631115 | Agency: 11NPSWRD | Date Created: 03/27/99
Location: 33N/7W-35M1 | | FIPS State/County: 06089 CALIFORNIA/SHASTA |
Station Type: /TYPA/AMBNT/SPRING | | STORET Station ID(s): WHIS_NPS_SPR_2 |
RMI-Indexes: | | Within Park Boundary: No |
RMI-Miles: | | |
HUC: 18020112 | Depth of Water: 0 | Aquifer: |
Major Basin: CALIFORNIA | Elevation: 1500 | Water Body Id: |
Minor Basin: SACRAMENTO RIVER | | ECO Region: |
RF1 Index: 18020112 | RF1 Mile Point: 0.000 | Distance from RF1: 0.80 | On/Off RF1:
RF3 Index: 18010211001600.95 | RF3 Mile Point: 5.98 | Distance from RF3: 0.04 | On/Off RF3:

Description:
THE SITE IS LOCATED ON THE FRENCH GULCH; CA 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. SPRING 33N/7W-35M1 IS LOCATED AT THE END OF THE ROAD ABOVE NPS RESIDENCE #81. WATER FROM THIS SPRING FLOWS THROUGH THE KAPUSTA DIVERSION AND IS USED FOR DOMESTIC PURPOSES AT RESIDENCE #81. THE SPRING IS LOCATED OUTSIDE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA BOUNDARIES. DATA WERE COLLECTED BY WILLIAM WERRELL OF NPS-WRD AS PART OF A WATER RESOURCES INVENTORY. FOR MORE INFORMATION CONTACT RESOURCE MANAGEMENT AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA; P.O. BOX 188; WHISKEYTOWN CA 96095. TEL. 916-241-6584. DATA WERE PROCESSED AND UPLOADED TO STORET BY ADAM HENSON; NPS-WRD; 1201 OAKRIDGE DRIVE SUITE 250; FORT COLLINS CO 80525. TEL. 970-225-3516.

Parameter Inventory for Station: WHIS0183

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/14/76-01/14/76	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00402	SPECIFIC CONDUCTANCE,NON-TEMPERATURE CORR.UMHOS/CM	01/14/76-01/14/76	1	70.	70.	70.	70.	0.	0.	**	**	**	**

** - Less than 9 observations ## - 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: WHIS0184

NPS Station ID: WHIS0184
LAT/LON: 40.673615/-122.516116
Agency: 11TOX09
Date Created: 10/20/84
Location: BOULDER CK 100 FT DOWNSTREAM FROM SEEPS
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM/MINE
STORET Station ID(s): IRONMT-55 /BOULDER-55
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 18020112
Depth of Water: 999
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 18020112001300.00
RF3 Mile Point: 2.92
Distance from RF3: 0.12
On/Off RF3:
Description:

Parameter Inventory for Station: WHIS0184

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: WHIS0185

NPS Station ID: WHIS0185
LAT/LON: 40.677781/-122.508616
Agency: 11TOX09
Date Created: 10/20/84
Location: BOULDER CK AB LAWSON PORTAL NR IRON MT MINE
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM/MINE
STORET Station ID(s): IRONMT-54 /BOULDER-54
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 18020112
Depth of Water: 999
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112003
RF1 Mile Point: 6.270
Distance from RF1: 8.20
On/Off RF1: OFF
RF3 Index: 18020112001300.00
RF3 Mile Point: 3.71
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: WHIS0185

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: WHIS0186

NPS Station ID: WHIS0186
LAT/LON: 40.678059/-122.508337
Agency: 11TOX09
Date Created: 10/20/84
Location: STREAM NR LAWSON PORTAL AT IRON MT MINE
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM/MINE
STORET Station ID(s): IRONMT-12 /BOULDER-12
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 18020112
Depth of Water: 999
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112003
RF1 Mile Point: 6.270
Distance from RF1: 6.70
On/Off RF1: OFF
RF3 Index: 18020112001300.00
RF3 Mile Point: 2.91
Distance from RF3: 0.05
On/Off RF3:
Description:

Parameter Inventory for Station: WHIS0186

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: WHIS0187

NPS Station ID: WHIS0187
LAT/LON: 40.678337/-122.522781
Agency: 11TOX09
Date Created: 10/20/84
Location: RICHMOND PORTAL AT IRON MT MINE
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/OUTFL/AMBNT/SPRING/NONPNT/MINE
STORET Station ID(s): IRONMT-1A /BOULDER-1A
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 18020112
Depth of Water: 999
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 18020112000302.14
RF3 Mile Point: 3.51
Distance from RF3: 0.20
On/Off RF3:
Description:

Parameter Inventory for Station: WHIS0187

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/30/83-05/08/84	18	25.9	26.928	34.	21.5	11.486	3.389	22.4	24.775	29.	32.2
00058	FLOW, RATE GALLONS/MIN	12/30/83-05/08/84	17	63.7	76.241	240.	42.6	2142.024	46.282	45.12	53.65	82.075	141.36
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/30/83-05/08/84	18	201000.	187353.722	250000.	78000.	2039920961.507	45165.484	102300.	154605.25	222806.5	232234.
00400	PH (STANDARD UNITS)	12/30/83-05/08/84	17	0.8	0.831	1.4	0.55	0.038	0.195	0.59	0.735	0.9	1.12
00400	CONVERTED PH (STANDARD UNITS)	12/30/83-05/08/84	17	0.8	0.796	1.4	0.55	0.039	0.199	0.59	0.735	0.9	1.12
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/30/83-05/08/84	17	158489.319	159977.959	281838.293	39810.717	3451949337.11	58753.292	79262.218	125892.541	184187.006	257318.573
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/30/83-05/08/84	18	67.	95.556	300.	15.	6959.673	83.425	24.	33.	123.75	282.
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	12/30/83-02/01/84	6	## 0.005	0.838	5.	0.005	4.158	2.039	**	**	**	**
00745	SULFIDE, TOTAL (MG/L AS S)	12/30/83-02/01/84	6	0.53	0.815	2.8	0.025	1.087	1.043	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	12/30/83-05/08/84	18	595000.	577305.556	730000.	309000.	10673945261.438	103314.787	424200.	536250.	662500.	689500.
00929	SODIUM, TOTAL (MG/L AS NA)	12/30/83-05/08/84	18	115000.	111425.	140000.	57700.	362367132.353	19035.943	88120.	101875.	122500.	135500.
00937	POTASSIUM, TOTAL MG/L AS K)	12/30/83-05/08/84	18	155000.	152777.778	200000.	64000.	1149241830.065	33900.469	114400.	130000.	182500.	191000.
00940	CHLORIDE,TOTAL IN WATER MG/L	12/30/83-05/08/84	18	64.5	77.5	277.	7.	4727.088	68.754	8.8	31.5	119.25	187.9
00945	SULFATE, TOTAL (MG/L AS SO4)	12/30/83-05/08/84	18	60800.	59508.333	72000.	37600.	72600073.529	8520.568	45700.	55800.	64250.	70425.
00956	SILICA, TOTAL (MG/L AS SI02)	12/30/83-05/08/84	18	24.	23.106	50.	2.5	193.644	13.916	2.5	10.15	29.075	49.1
01002	ARSENIC, TOTAL (UG/L AS AS)	12/30/83-05/08/84	18	33250.	33694.444	48000.	13000.	86327614.379	9291.265	17500.	28000.	40125.	46200.
01007	BARIUM, TOTAL (UG/L AS BA)	12/30/83-05/08/84	18	## 5000.	2977.778	5000.	100.	5420653.595	2328.23	460.	500.	5000.	5000.
01012	BERYLLIUM, TOTAL (UG/L AS BE)	12/30/83-05/08/84	18	## 250.	198.889	250.	5.	9698.693	98.482	23.	193.75	250.	250.
01027	CADMIUM, TOTAL (UG/L AS CD)	12/30/83-05/08/84	18	10600.	10263.889	14500.	3500.	5818766.34	2412.212	7370.	9000.	11625.	13150.
01034	CHROMIUM, TOTAL (UG/L AS CR)	12/30/83-05/08/84	18	## 500.	415.	500.	20.	28402.941	168.532	47.	425.	500.	500.
01037	COBALT, TOTAL (UG/L AS CO)	12/30/83-05/08/84	18	## 2500.	2138.889	2500.	500.	494281.046	703.051	950.	2125.	2500.	2500.
01042	COPPER, TOTAL (UG/L AS CU)	12/30/83-05/08/84	18	175000.	185444.444	264000.	118000.	1680908496.732	40998.884	140050.	157500.	214375.	260400.
01045	IRON, TOTAL (UG/L AS FE)	12/30/83-05/08/84	18	12650000.	11602277.778	15700000.	1011000.	**********	4246067.576	1082100.	11687500.	13975000.	15160000.
01047	IRON, FERROUS (UG/L AS FE)	12/30/83-05/08/84	18	11450.	11306.667	12900.	7460.	1684317.647	1297.813	9620.	10737.5	12312.5	12720.
01051	LEAD, TOTAL (UG/L AS PB)	12/30/83-05/08/84	18	3150.	3177.778	4900.	1400.	746830.065	864.193	1850.	2650.	3650.	4360.
01055	MANGANESE, TOTAL (UG/L AS MN)	12/30/83-05/08/84	18	13500.	13341.667	16500.	7050.	4347720.588	2085.119	10425.	12750.	14550.	15825.
01059	THALLIUM, TOTAL (UG/L AS TL)	12/30/83-05/08/84	18	192.5	187.222	270.	80.	1915.359	43.765	125.	162.5	207.5	252.
01067	NICKEL, TOTAL (UG/L AS NI)	12/30/83-05/08/84	18	## 2000.	1613.333	2000.	200.	555670.588	745.433	200.	1600.	2000.	2000.
01077	SILVER, TOTAL (UG/L AS AG)	12/30/83-05/08/84	18	19.	152.583	500.	11.	49191.507	221.792	11.45	14.75	500.	500.
01087	VANADIUM, TOTAL (UG/L AS V)	12/30/83-05/08/84	18	##10000.	7544.444	10000.	800.	16653202.614	4080.834	980.	1750.	10000.	10000.
01092	ZINC, TOTAL (UG/L AS ZN)	12/30/83-05/08/84	18	1475000.	1419166.667	1820000.	695000.	62850735294.118	250700.489	1046000.	1313750.	1587500.	1667000.
01097	ANTIMONY, TOTAL (UG/L AS SB)	12/30/83-05/08/84	18	300.	303.333	740.	55.	28847.059	169.844	59.5	193.75	420.	479.
01102	TIN, TOTAL (UG/L AS SN)	12/30/83-05/08/84	11	50.	53.	120.	10.	1047.	32.357	12.	30.	62.	116.
01105	ALUMINUM, TOTAL (UG/L AS AL)	12/30/83-05/08/84	18	1230000.	1172166.667	1420000.	602000.	42480970588.235	206109.123	826100.	1120000.	1322500.	1384000.
01147	SELENIUM, TOTAL (UG/L AS SE)	12/30/83-05/08/84	17	## 2.	5.118	21.	1.	53.36	7.305	1.	1.	5.5	20.2
01171	PLATINUM,WHOLE WATER SAMPLE,UG/L	12/30/83-05/08/84	18	65.	191.833	1000.	5.	82883.912	287.896	5.	37.5	218.75	829.
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	12/30/83-05/08/84	18	71600.	69250.833	86700.	43410.	87883280.147	9374.608	60145.5	63662.5	74600.	82078.5
71900	MERCURY, TOTAL (UG/L AS HG)	12/30/83-05/08/84	18	0.7	1.394	7.2	0.3	3.109	1.763	0.48	0.6	1.125	4.77

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

Parameter Inventory for Station: WHIS0187

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
71910	GOLD, TOTAL (UG/L AS AU)	12/30/83-05/08/84	18 ##	500.	750.	5000.	500.	1125000.	1060.66	500.	500.	500.	950.
82032	CALCIUM - TOTAL UG/L (AS CA)	12/30/83-05/08/84	18	165000.	161805.556	190000.	105000.	387180555.556	19676.904	135600.	151875.	177000.	185500.

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

EPA Water Quality Criteria Analysis for Station: WHIS0187

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	17	0	0.00				7	0	0.00	10	0	0.00			
		Other-Lo Lim.	6.5	17	17	1.00				7	7	1.00	10	10	1.00			
00720	CYANIDE, TOTAL	Fresh Acute	0.022	5 &	0	0.00				5	0	0.00						
		Drinking Water	0.2	5 &	0	0.00				5	0	0.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	18	0	0.00				7	0	0.00	11	0	0.00			
		Drinking Water	250.	18	1	0.06				7	0	0.00	11	1	0.09			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	18	18	1.00				7	7	1.00	11	11	1.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	18	18	1.00				7	7	1.00	11	11	1.00			
		Drinking Water	50.	18	18	1.00				7	7	1.00	11	11	1.00			
01007	BARIUM, TOTAL	Drinking Water	2000.	8 &	0	0.00				5	0	0.00	3	0	0.00			
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	4 &	0	0.00				3	0	0.00	1	0	0.00			
		Drinking Water	4.	0 &	0	0.00												
01027	CADMIUM, TOTAL	Fresh Acute	3.9	18	18	1.00				7	7	1.00	11	11	1.00			
		Drinking Water	5.	18	18	1.00				7	7	1.00	11	11	1.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	4 &	2	0.50				3	1	0.33	1	1	1.00			
01042	COPPER, TOTAL	Fresh Acute	18.	18	18	1.00				7	7	1.00	11	11	1.00			
		Drinking Water	1300.	18	18	1.00				7	7	1.00	11	11	1.00			
01051	LEAD, TOTAL	Fresh Acute	82.	18	18	1.00				7	7	1.00	11	11	1.00			
		Drinking Water	15.	18	18	1.00				7	7	1.00	11	11	1.00			
01059	THALLIUM, TOTAL	Fresh Acute	1400.	18	0	0.00				7	0	0.00	11	0	0.00			
		Drinking Water	2.	18	18	1.00				7	7	1.00	11	11	1.00			
01067	NICKEL, TOTAL	Fresh Acute	1400.	4 &	0	0.00				3	0	0.00	1	0	0.00			
		Drinking Water	100.	2 &	2	1.00				1	1	1.00	1	1	1.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	13 &	13	1.00				2	2	1.00	11	11	1.00			
		Drinking Water	100.	13 &	0	0.00				2	0	0.00	11	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	18	18	1.00				7	7	1.00	11	11	1.00			
		Drinking Water	5000.	18	18	1.00				7	7	1.00	11	11	1.00			
01097	ANTIMONY, TOTAL	Fresh Acute	88.	18	15	0.83				7	5	0.71	11	10	0.91			
		Drinking Water	6.	18	18	1.00				7	7	1.00	11	11	1.00			
01147	SELENIUM, TOTAL	Fresh Acute	20.	17	2	0.12				7	2	0.29	10	0	0.00			
		Drinking Water	50.	17	0	0.00				7	0	0.00	10	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	18	3	0.17				7	3	0.43	11	0	0.00			
		Drinking Water	2.	18	3	0.17				7	3	0.43	11	0	0.00			

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

Station Inventory for Station: WHIS0188

NPS Station ID: WHIS0188
LAT/LON: 40.679170/-122.511116
Agency: 11TOX09
Date Created: 10/20/84
Location: BOULDER CK AB RICHMOND AT IRON MT MINE
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM/MINE
STORET Station ID(s): IRONMT-20 /BOULDER-20
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 18020112
Depth of Water: 999
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112003
RF1 Mile Point: 6.270
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 18020112001300.00
RF3 Mile Point: 0.60
Distance from RF3: 0.12
On/Off RF3:
Description:

Parameter Inventory for Station: WHIS0188

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: WHIS0189

NPS Station ID: WHIS0189 LAT/LON: 40.679170/-122.511116 Agency: 11TOX09 Date Created: 10/20/84
Location: BOULDER CREEK BL RICHMOND BY-PASS AT IRON MINE FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM/MINE STORET Station ID(s): IRONMT-22 /BOULDER-22
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 18020112 Depth of Water: 999 Aquifer:
Major Basin: CALIFORNIA Elevation: 0 Water Body Id:
Minor Basin: SACRAMENTO RIVER ECO Region:
RF1 Index: 18020112003 RF1 Mile Point: 6.270 Distance from RF1: 7.90 On/Off RF1: OFF
RF3 Index: 18020112001300.00 RF3 Mile Point: 3.71 Distance from RF3: 0.03 On/Off RF3:
Description:

Parameter Inventory for Station: WHIS0189

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/01/83-09/01/83	1	16.8	16.8	16.8	16.8	0.	0.	**	**	**	**
00058	FLOW, RATE GALLONS/MIN	09/01/83-09/01/83	1	79.1	79.1	79.1	79.1	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/01/83-09/01/83	1	700.	700.	700.	700.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	09/01/83-09/01/83	1	2.8	2.8	2.8	2.8	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/01/83-09/01/83	1	2.8	2.8	2.8	2.8	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/01/83-09/01/83	1	1584.893	1584.893	1584.893	1584.893	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	09/01/83-09/01/83	1	36.	36.	36.	36.	0.	0.	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	09/01/83-09/01/83	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	09/01/83-09/01/83	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	09/01/83-09/01/83	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	09/01/83-09/01/83	1	106.	106.	106.	106.	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	09/01/83-09/01/83	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	09/01/83-09/01/83	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	09/01/83-09/01/83	1	1650.	1650.	1650.	1650.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	09/01/83-09/01/83	1	35.	35.	35.	35.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	09/01/83-09/01/83	1	768.	768.	768.	768.	0.	0.	**	**	**	**
01059	THALLIUM, TOTAL (UG/L AS TL)	09/01/83-09/01/83	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	09/01/83-09/01/83	1 ##	20.	20.	20.	20.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	09/01/83-09/01/83	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01087	VANADIUM, TOTAL (UG/L AS V)	09/01/83-09/01/83	1 ##	100.	100.	100.	100.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	09/01/83-09/01/83	1	8960.	8960.	8960.	8960.	0.	0.	**	**	**	**
01097	ANTIMONY, TOTAL (UG/L AS SB)	09/01/83-09/01/83	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01102	TIN, TOTAL (UG/L AS SN)	09/01/83-09/01/83	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	09/01/83-09/01/83	1	19000.	19000.	19000.	19000.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	09/01/83-09/01/83	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	09/01/83-09/01/83	1	2.6	2.6	2.6	2.6	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0189

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	1	1.00	1	1	1.00									

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

EPA Water Quality Criteria Analysis for Station: WHIS0189

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
01002	ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
01007	BARIUM, TOTAL	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	1	0	0.00	1	0	0.00									
		Drinking Water	4.	1	0	0.00	1	0	0.00									
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1	1	1.00	1	1	1.00									
		Drinking Water	5.	1	1	1.00	1	1	1.00									
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00	1	0	0.00									
01042	COPPER, TOTAL	Fresh Acute	18.	1	1	1.00	1	1	1.00									
		Drinking Water	1300.	1	1	1.00	1	1	1.00									
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00	1	0	0.00									
		Drinking Water	15.	1	1	1.00	1	1	1.00									
01059	THALLIUM, TOTAL	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	2.	0 &	0	0.00												
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01077	SILVER, TOTAL	Fresh Acute	4.1	0 &	0	0.00												
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01092	ZINC, TOTAL	Fresh Acute	120.	1	1	1.00	1	1	1.00									
		Drinking Water	5000.	1	1	1.00	1	1	1.00									
01097	ANTIMONY, TOTAL	Fresh Acute	88.	1	0	0.00	1	0	0.00									
		Drinking Water	6.	0 &	0	0.00												
01147	SELENIUM, TOTAL	Fresh Acute	20.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	1	1.00	1	1	1.00									
		Drinking Water	2.	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: WHIS0190

NPS Station ID: WHIS0190
LAT/LON: 40.679448/-122.512505
Agency: 11TOX09
Date Created: 10/20/84
Location: RICHMOND PORTAL BY-PASS AT IRON MT MINE
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/OUTFL/AMBNT/SPRING/NONPNT/MINE
STORET Station ID(s): IRONMT-1B /BOULDER-1B
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 18020112
Depth of Water: 999
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112
RF1 Mile Point: 0.000
Distance from RF1: 12.40
On/Off RF1:
RF3 Index: 18020112001300.00
RF3 Mile Point: 3.93
Distance from RF3: 0.30
On/Off RF3:
Description:

Parameter Inventory for Station: WHIS0190

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: WHIS0191

NPS Station ID: WHIS0191
LAT/LON: 40.680559/-122.512505
Agency: 11TOX09
Date Created: 10/20/84
Location: BOULDER CK 100 FT DOWN FROM SEEP E OF HORNET
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM/MINE
STORET Station ID(s): IRONMT-52 /BOULDER-52
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 18020112
Depth of Water: 999
Aquifer:
Major Basin: ¼CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112
RF1 Mile Point: 0.000
Distance from RF1: 8.80
On/Off RF1:
RF3 Index: 18020112001300.00
RF3 Mile Point: 3.58
Distance from RF3: 0.09
On/Off RF3:
Description:

Parameter Inventory for Station: WHIS0191

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: WHIS0192

NPS Station ID: WHIS0192
LAT/LON: 40.682781/-122.516949
Agency: 11TOX09
Date Created: 10/20/84
Location: BOULDER CREEK AB IRON RD AT IRON MT MINE
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM/MINE
STORET Station ID(s): IRONMT-17 /BOULDER-17
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 18020112
Depth of Water: 999
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112
RF1 Mile Point: 0.000
Distance from RF1: 0.60
On/Off RF1:
RF3 Index: 18020112000304.54
RF3 Mile Point: 5.51
Distance from RF3: 0.20
On/Off RF3:
Description:

Parameter Inventory for Station: WHIS0192

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: WHIS0193

NPS Station ID: WHIS0193
LAT/LON: 40.687505/-122.522227
Agency: 11TOX09
Date Created: 10/20/84
Location: UPPER BOULDER CK AT FALLS AT IRON MT MINE
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM/MINE
STORET Station ID(s): IRONMT-50 /BOULDER-50
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 18020112
Depth of Water: 999
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 18020112001300.00
RF3 Mile Point: 0.55
Distance from RF3: 0.10
On/Off RF3:
Description:

Parameter Inventory for Station: WHIS0193

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: WHIS0194

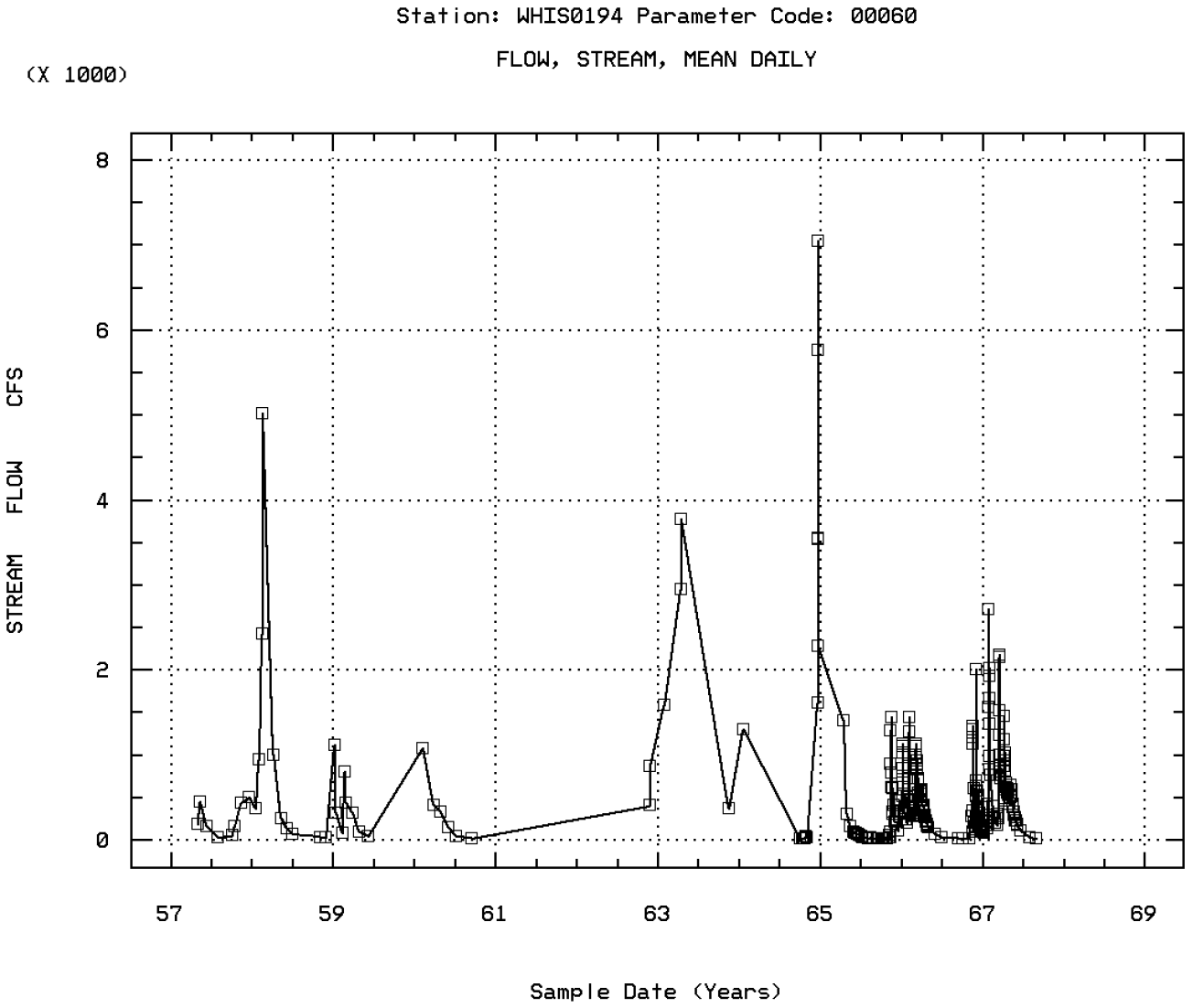
NPS Station ID: WHIS0194
LAT/LON: 40.695004/-122.635559
Agency: 112WRD
Date Created: / /
Location: CLEAR C A FRENCH GULCH CA
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 11371000
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 18020112
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 18020112
RF1 Mile Point: 0.000
Distance from RF1: 0.50
On/Off RF1:
RF3 Index: 18020101001712.46
RF3 Mile Point: 12.46
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: WHIS0194

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/01/57-09/01/67	262	8.3	8.963	21.1	1.7	12.066	3.474	5.	6.7	10.15	13.9
00060p	FLOW, STREAM, MEAN DAILY CFS	05/01/57-09/01/67	291	364.	586.983	7050.	10.	658643.893	811.569	29.	147.	745.	1278.
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	11/26/62-11/19/63	4	96.5	96.75	99.	95.	4.25	2.062	**	**	**	**
70332	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .125MM	11/26/62-11/19/63	4	99.	98.75	100.	97.	2.25	1.5	**	**	**	**
70333	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .250MM	11/26/62-11/26/62	2	99.5	99.5	100.	99.	0.5	0.707	**	**	**	**
70334	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM	11/26/62-11/26/62	1	100.	100.	100.	100.	0.	0.	**	**	**	**
70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	02/19/58-12/22/64	3	23.	22.333	24.	20.	4.333	2.082	**	**	**	**
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	02/19/58-12/22/64	4	34.	32.5	36.	26.	22.333	4.726	**	**	**	**
70339	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM	02/19/58-12/22/64	3	51.	49.	53.	43.	28.	5.292	**	**	**	**
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	02/19/58-12/22/64	4	58.	57.	64.	48.	60.667	7.789	**	**	**	**
70341	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM	02/19/58-12/22/64	3	72.	68.333	73.	60.	52.333	7.234	**	**	**	**
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	02/19/58-03/16/67	19	72.	70.737	82.	46.	71.205	8.438	62.	68.	77.	82.
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	02/19/58-03/16/67	19	81.	81.105	99.	56.	92.322	9.608	71.	75.	87.	93.
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	02/19/58-03/16/67	19	91.	90.684	100.	76.	40.006	6.325	82.	88.	97.	98.
70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	02/19/58-03/16/67	18	99.5	98.111	100.	92.	7.987	2.826	92.	97.75	100.	100.
70346	SUS SED FALL DIA(DISTLD WATER)%FINER THAN 1.00MM	02/19/58-03/16/67	9	100.	100.	100.	100.	0.	0.	100.	100.	100.	100.
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	05/01/57-09/01/67	291	5.	46.247	2420.	1.	35098.332	187.345	1.	2.	18.	85.2
80155p	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	05/01/57-09/01/67	291	5.	410.386	46100.	0.04	9109374.812	3018.174	0.16	0.92	29.	269.

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

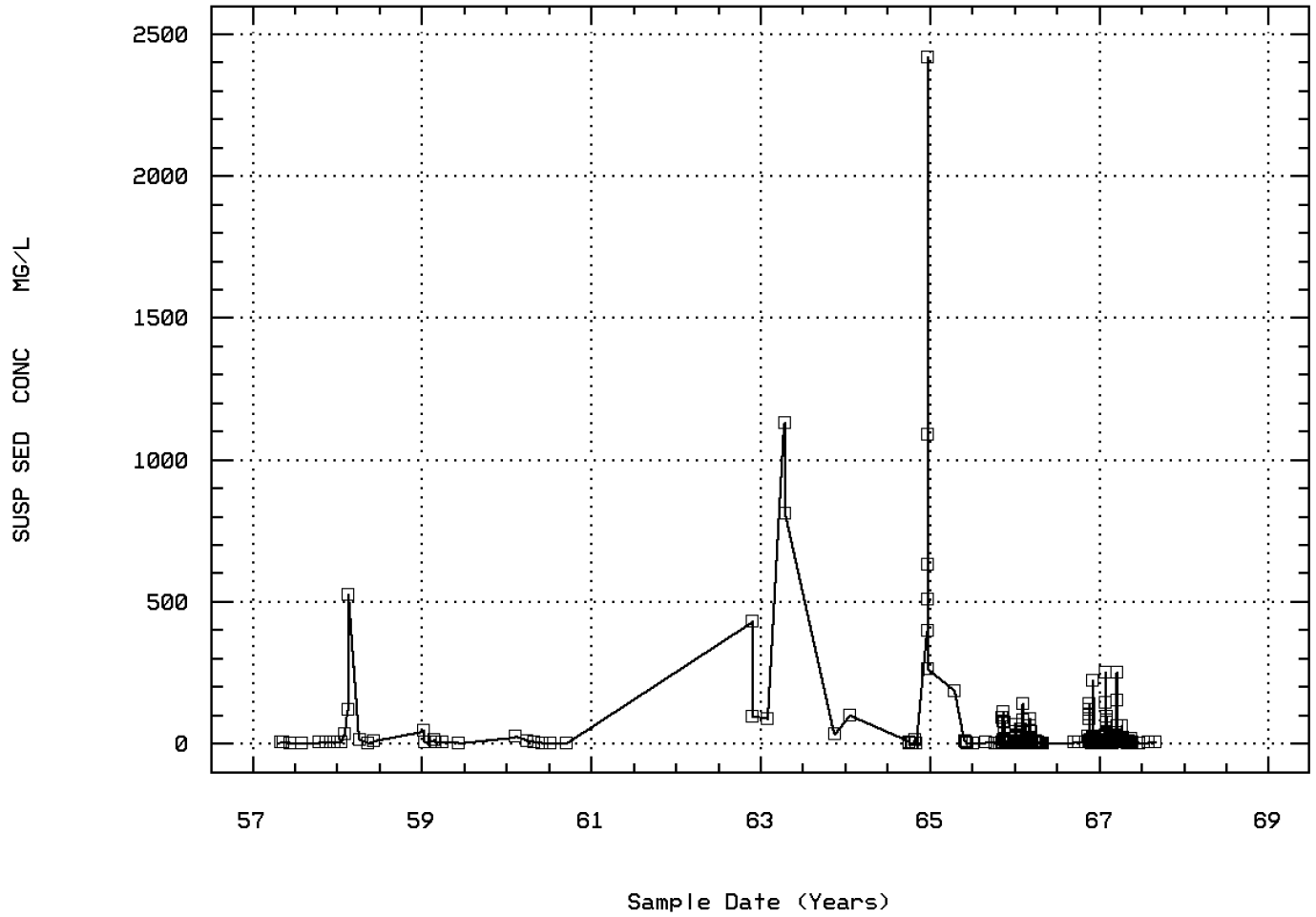
********** No EPA Water Quality Criteria exist to compare against the data at this station. **********



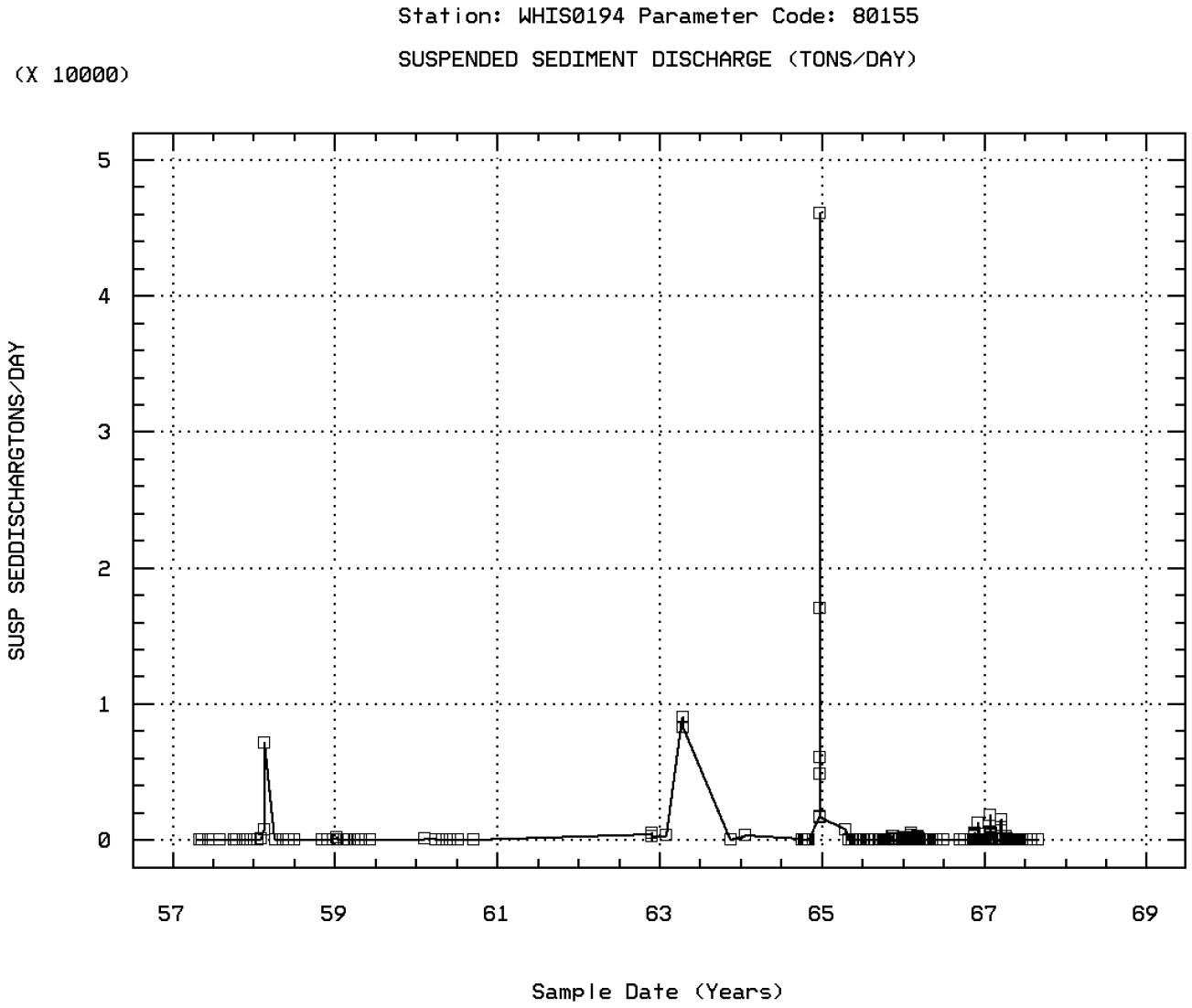
CLEAR C A FRENCH GULCH CA

Station: WHIS0194 Parameter Code: 80154

SUSP. SEDIMENT CONCENTRATION-EVAP. AT 1



CLEAR C A FRENCH GULCH CA



CLEAR C A FRENCH GULCH CA

Annual Analysis for 1957 - Station WHIS0194

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060	FLOW, STREAM, MEAN DAILY CFS	05/01/57-09/01/67	8	172.	245.875	504.	29.	35299.268	187.881	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	05/01/57-09/01/67	8	3.	3.375	6.	1.	3.125	1.768	**	**	**	**
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	05/01/57-09/01/67	8	1.35	2.969	7.1	0.15	9.512	3.084	**	**	**	**

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

Annual Analysis for 1958 - Station WHIS0194

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060	FLOW, STREAM, MEAN DAILY CFS	05/01/57-09/01/67	10	310.	1026.4	5020.	24.	2515300.044	1585.97	24.5	59.75	1355.	4760.
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	05/01/57-09/01/67	10	5.5	70.2	523.	1.	26651.733	163.254	1.	1.	54.	482.7
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	05/01/57-09/01/67	10	3.25	799.423	7090.	0.06	4944403.627	2223.601	0.062	0.163	257.5	6459.4

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

Annual Analysis for 1959 - Station WHIS0194

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060	FLOW, STREAM, MEAN DAILY CFS	05/01/57-09/01/67	8	313.	400.5	1120.	41.	146296.286	382.487	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	05/01/57-09/01/67	8	3.	8.875	45.	1.	223.554	14.952	**	**	**	**
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	05/01/57-09/01/67	8	2.55	21.461	136.	0.21	2205.043	46.958	**	**	**	**

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

Annual Analysis for 1960 - Station WHIS0194

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060	FLOW, STREAM, MEAN DAILY CFS	05/01/57-09/01/67	6	239.	335.333	1080.	15.	157509.067	396.874	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	05/01/57-09/01/67	6	3.5	7.333	26.	2.	87.867	9.374	**	**	**	**
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	05/01/57-09/01/67	6	2.645	14.86	76.	0.08	905.952	30.099	**	**	**	**

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

Annual Analysis for 1962 - Station WHIS0194

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060	FLOW, STREAM, MEAN DAILY CFS	05/01/57-09/01/67	2	636.5	636.5	870.	403.	109044.5	330.219	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	05/01/57-09/01/67	2	262.	262.	431.	93.	57122.	239.002	**	**	**	**
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	05/01/57-09/01/67	2	343.5	343.5	469.	218.	31500.5	177.484	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0194

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060	FLOW, STREAM, MEAN DAILY CFS	05/01/57-09/01/67	4	2270.	2170.25	3770.	371.	2247066.917	1499.022	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	05/01/57-09/01/67	4	447.5	514.25	1130.	32.	293996.25	542.214	**	**	**	**
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	05/01/57-09/01/67	4	4304.5	4412.75	9010.	32.	23775144.917	4875.976	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0194

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060	FLOW, STREAM, MEAN DAILY CFS	05/01/57-09/01/67	14	671.5	1800.357	7050.	10.	5542250.555	2354.198	10.	10.	3535.	6405.
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	05/01/57-09/01/67	14	54.5	387.571	2420.	1.	448503.956	669.704	1.5	2.	538.25	1755.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	05/01/57-09/01/67	14	171.2	5546.631	46100.	0.04	157614323.929	12554.454	0.045	0.05	5137.5	31550.

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0194

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060	FLOW, STREAM, MEAN DAILY CFS	05/01/57-09/01/67	44	74.	247.068	1440.	14.	141814.809	376.583	15.	19.5	322.25	836.5
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	05/01/57-09/01/67	44	2.	16.114	186.	1.	1383.917	37.201	1.	1.	5.75	75.5
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	05/01/57-09/01/67	44	0.41	38.916	703.	0.04	15445.186	124.279	0.04	0.08	3.2	179.5

** - 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 1966 - Station WHIS0194

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060	FLOW, STREAM, MEAN DAILY CFS	05/01/57-09/01/67	118	371.	475.11	2000.	11.	137718.048	371.104	111.4	198.5	608.75	1100.
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	05/01/57-09/01/67	118	6.	17.449	222.	1.	1080.916	32.877	2.	3.	14.25	49.3
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	05/01/57-09/01/67	118	5.2	48.658	1200.	0.08	19991.176	141.39	0.654	1.5	18.75	133.

** - Less than 9 observations ## - Computed with 50% or 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 WHIS0194

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060	FLOW, STREAM, MEAN DAILY CFS	05/01/57-09/01/67	77	526.	665.87	2710.	16.	315740.72	561.908	168.	245.	865.	1528.
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	05/01/57-09/01/67	77	9.	23.883	250.	1.	2154.262	46.414	1.8	3.5	19.5	63.6
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	05/01/57-09/01/67	77	11.	99.982	1820.	0.17	85701.781	292.749	0.598	2.9	31.	270.8

** - 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 #1: 6/01 to 11/09 - Station WHIS0194

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/01/57-09/01/67	30	14.4	15.027	21.1	7.8	12.085	3.476	10.71	12.2	17.625	20.54
00060p	FLOW, STREAM, MEAN DAILY CFS	05/01/57-09/01/67	52	26.5	49.712	230.	10.	2815.817	53.064	11.3	15.	65.5	151.2
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	05/01/57-09/01/67	52	2.	3.923	92.	1.	158.739	12.599	1.	1.	2.75	5.
80155p	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	05/01/57-09/01/67	52	0.16	0.514	12.	0.04	2.83	1.682	0.04	0.06	0.26	0.825

** - Less than 9 observations ## - Computed 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: 11/10 to 2/20 - Station WHIS0194

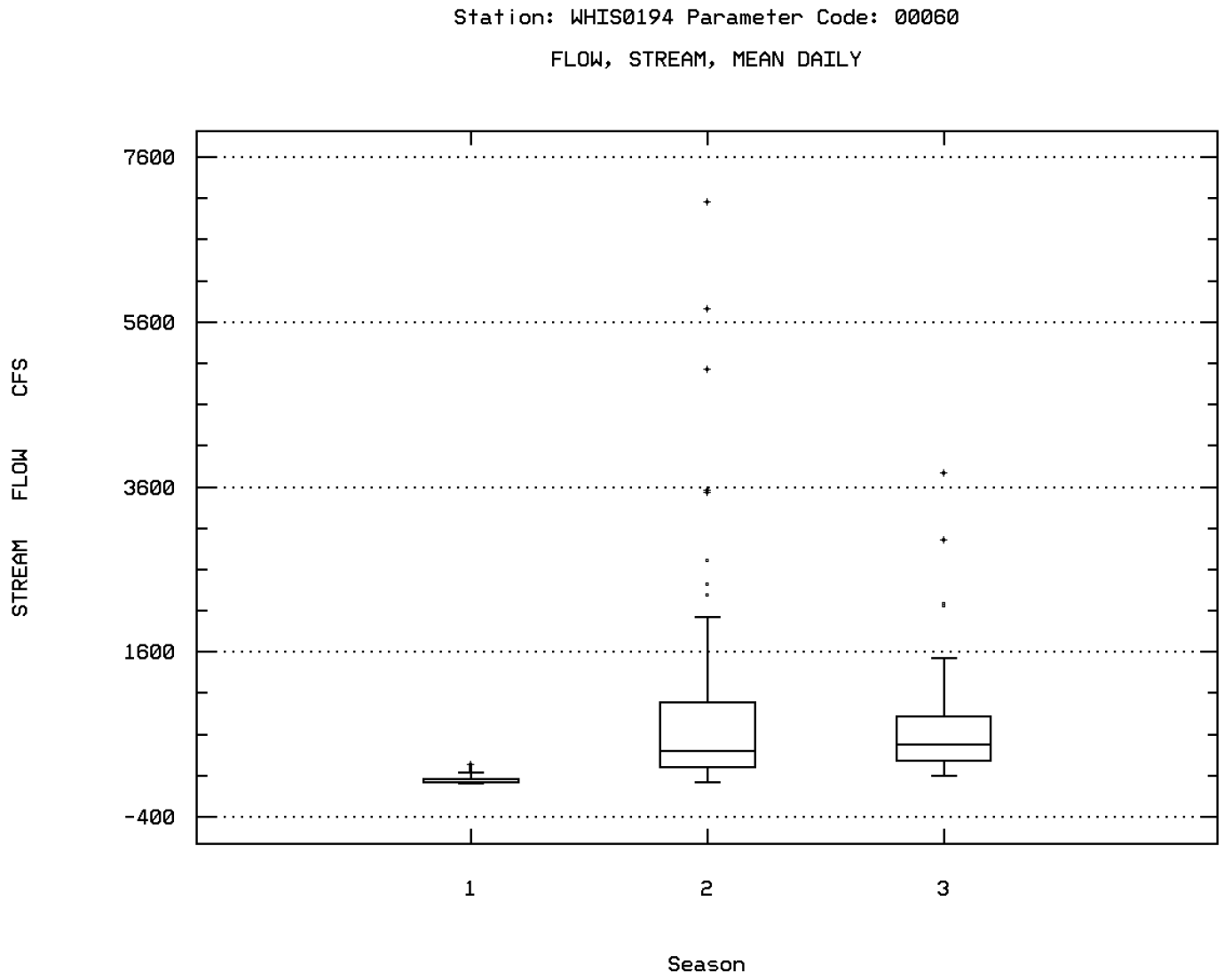
Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/01/57-09/01/67	128	7.8	7.386	12.2	1.7	4.573	2.138	4.4	5.725	8.9	10.06
00060p	FLOW, STREAM, MEAN DAILY CFS	05/01/57-09/01/67	131	395.	772.344	7050.	26.	1076191.489	1037.396	106.4	206.	992.	1606.
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	05/01/57-09/01/67	131	9.	73.275	2420.	1.	61559.524	248.112	2.	4.	39.	134.4
80155p	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	05/01/57-09/01/67	131	10.	737.655	46100.	0.08	18974489.972	4355.972	0.688	1.7	93.	484.

** - Less than 9 observations ## - Computed 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: 2/21 to 5/31 - Station WHIS0194

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/01/57-09/01/67	104	8.9	9.156	16.1	3.3	7.697	2.774	5.6	7.2	10.	13.9
00060p	FLOW, STREAM, MEAN DAILY CFS	05/01/57-09/01/67	108	478.5	620.833	3770.	98.	292739.804	541.054	193.4	287.	826.25	1103.
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	05/01/57-09/01/67	108	6.	33.843	1130.	1.	18338.508	135.42	2.	3.	14.	42.
80155p	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	05/01/57-09/01/67	108	6.55	210.766	9010.	0.26	1382848.204	1175.946	1.09	2.375	25.	126.7

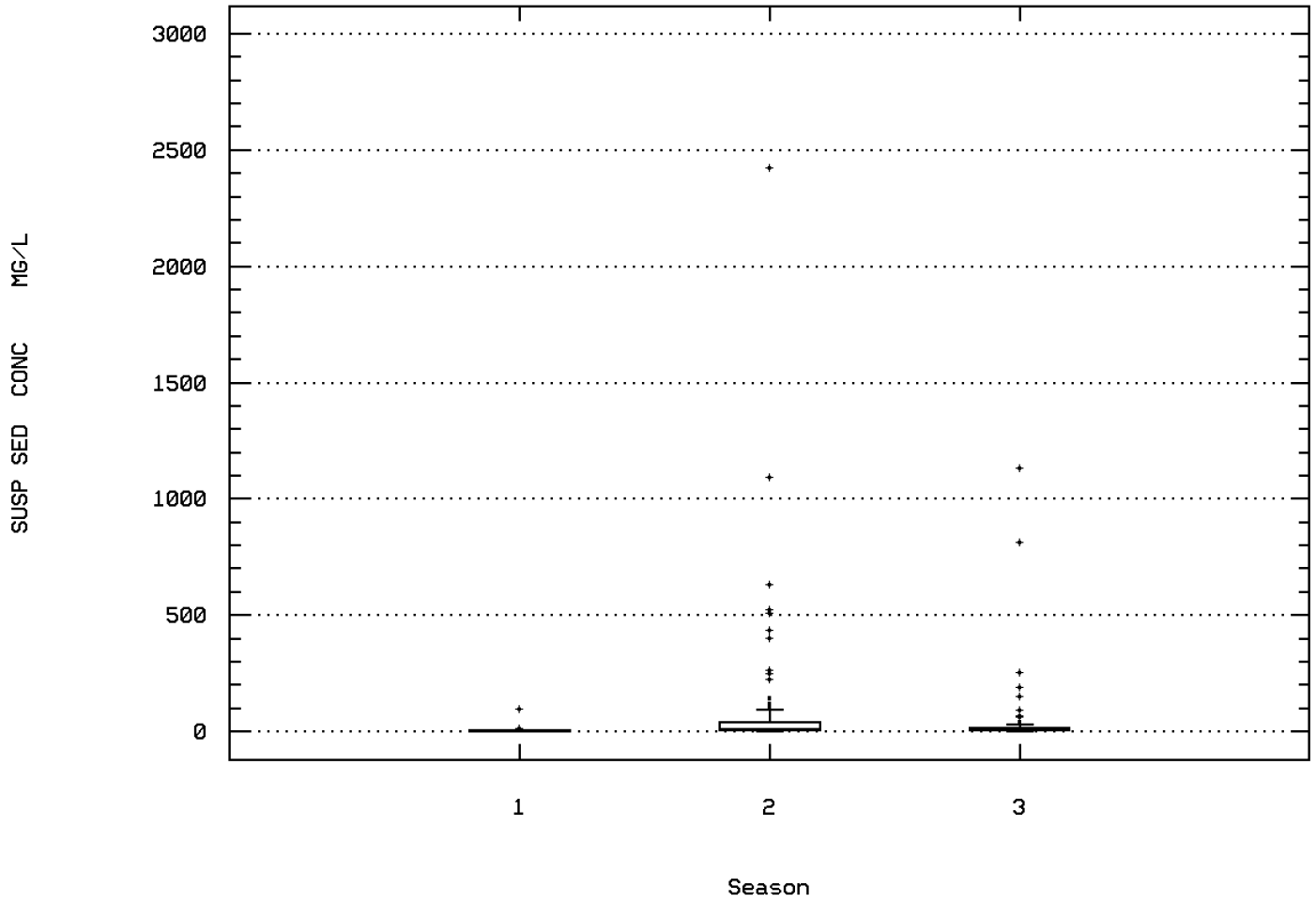
** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot



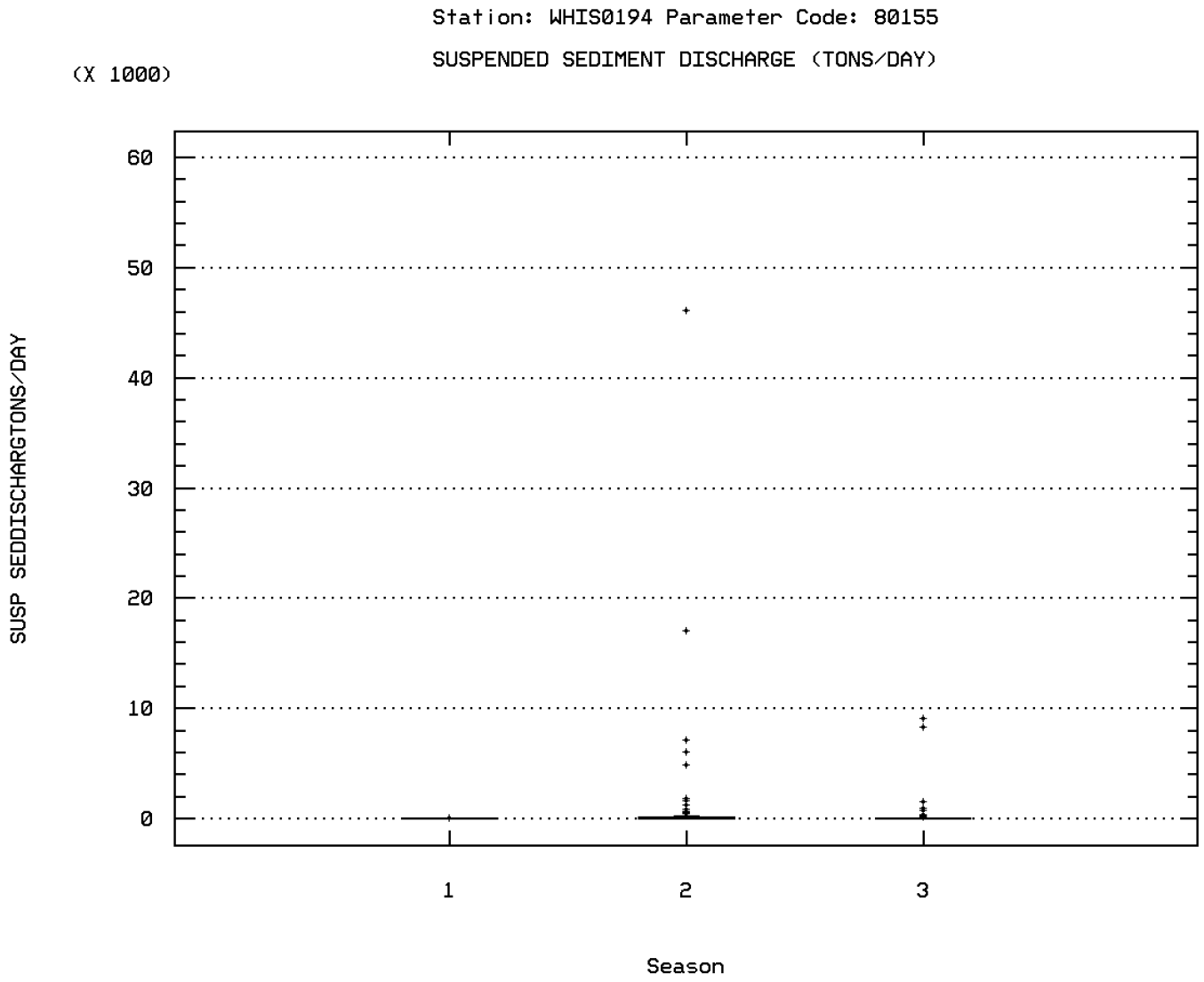
CLEAR C A FRENCH GULCH CA

Station: WHIS0194 Parameter Code: 80154

SUSP. SEDIMENT CONCENTRATION-EVAP. AT 1



CLEAR C A FRENCH GULCH CA



CLEAR C A FRENCH GULCH CA

Station Inventory for Station: WHIS0195

NPS Station ID: WHIS0195
LAT/LON: 40.697670/-122.636976
Agency: 11NPSWRD
Date Created: 05/30/98
Location: FRENCH GULCH CREEK NEAR MOUTH
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): WHIS_CDWR_09
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 18020112
Depth of Water: 0
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112
RF1 Mile Point: 0.000
Distance from RF1: 0.80
On/Off RF1:
RF3 Index: 18010211001600.95
RF3 Mile Point: 5.98
Distance from RF3: 0.04
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE FRENCH GULCH CALIFORNIA 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS DESCRIBED BY THE CALIFORNIA DEPARTMENT OF WATER RESOURCES (CDWR) AS "FRENCH GULCH CREEK NEAR MOUTH" AND IS LOCATED OUTSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA ARE FROM THE CDWR'S DATABASE AND ARE RELATED TO A STUDY OF THE CLEAR CREEK BASIN. THE STUDY BEGAN IN 1997 AND WILL CONTINUE FOR SEVERAL YEARS. FOR MORE INFORMATION ON THE DATA CONTACT THE CDWR; NORTHERN DIVISION: 2440 MAIN STREET; RED BLUFF CALIFORNIA 96080 (TEL 916-529-7300). FOR MORE INFORMATION ON THE WHISKEYTOWN UNIT OF THE PARK CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA: P.O. BOX 188; WHISKEYTOWN CALIFORNIA 96095 (TEL 916-241-6584). THE DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0195

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/97-01/06/98	4	9.9	9.25	12.5	4.7	10.73	3.276	**	**	**	**
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	10/07/97-01/06/98	4	49.85	48.675	54.5	40.5	34.589	5.881	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/07/97-01/06/98	4	193.5	187.25	210.	152.	700.917	26.475	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/13/97-01/06/98	3	180.	178.	201.	153.	579.	24.062	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	10/07/97-01/06/98	4	10.6	10.95	12.9	9.7	2.037	1.427	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	10/07/97-01/06/98	4	7.45	7.475	7.7	7.3	0.029	0.171	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	10/07/97-01/06/98	4	7.447	7.451	7.7	7.3	0.03	0.173	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/07/97-01/06/98	4	0.036	0.035	0.05	0.02	0.	0.013	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/13/97-01/06/98	3	56.	58.333	69.	50.	94.333	9.713	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	10/07/97-12/04/97	3	0.01	0.008	0.01	0.005	0.	0.003	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/07/97-12/04/97	3 ##	0.005	0.01	0.02	0.005	0.	0.009	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/07/97-12/04/97	3 ##	0.1	0.083	0.1	0.05	0.001	0.029	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/13/97-11/13/97	1	89.	89.	89.	89.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/13/97-11/13/97	1	24.	24.	24.	24.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/13/97-11/13/97	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	11/13/97-11/13/97	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/13/97-11/13/97	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	11/13/97-11/13/97	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	11/13/97-11/13/97	1	33.	33.	33.	33.	0.	0.	**	**	**	**

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

Parameter Inventory for Station: WHIS0195

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01002	ARSENIC, TOTAL (UG/L AS AS)	10/07/97-11/13/97	2	49.5	49.5	68.	31.	684.5	26.163	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	10/07/97-11/13/97	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	10/07/97-11/13/97	2 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	10/07/97-11/13/97	2 ##	3.25	3.25	6.	0.5	15.125	3.889	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	10/07/97-11/13/97	2	1610.	1610.	3160.	60.	4805000.	2192.031	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	10/07/97-11/13/97	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/07/97-11/13/97	2 ##	25.25	25.25	48.	2.5	1035.125	32.173	**	**	**	**
01062	MOLYBDENUM, TOTAL (UG/L AS MO)	10/07/97-11/13/97	1	24.	24.	24.	24.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	10/07/97-11/13/97	2 ##	2.25	2.25	4.	0.5	6.125	2.475	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	10/07/97-11/13/97	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	10/07/97-11/13/97	1	1840.	1840.	1840.	1840.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	10/07/97-11/13/97	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	12/04/97-12/04/97	1	8.	8.	8.	8.	0.	0.	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	12/04/97-12/04/97	1	0.903	0.903	0.903	0.903	0.	0.	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			8.								
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/13/97-11/13/97	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
71889	PHOSPHATE, ORTHO, SOLUBLE, AS PO4 (MG/L)	10/07/97-12/04/97	3	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	10/07/97-11/13/97	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	11/13/97-01/06/98	3	2.4	16.4	46.	0.8	657.76	25.647	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0195

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	4	0	0.00	1	0	0.00	3	0	0.00						
00406	PH, FIELD	Fresh Chronic	9.	4	0	0.00	1	0	0.00	3	0	0.00						
		Other-Lo Lim.	6.5	4	0	0.00	1	0	0.00	3	0	0.00						
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	3	0	0.00	1	0	0.00	2	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						
01002	ARSENIC, TOTAL	Fresh Acute	360.	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	50.	2	1	0.50	1	0	0.00	1	1	1.00						
01027	CADMIUM, TOTAL	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						
01034	CHROMIUM, TOTAL	Drinking Water	100.	2	0	0.00	1	0	0.00	1	0	0.00						
01042	COPPER, TOTAL	Fresh Acute	18.	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	1300.	2	0	0.00	1	0	0.00	1	0	0.00						
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00				1	0	0.00						
		Drinking Water	15.	1	0	0.00				1	0	0.00						
01067	NICKEL, TOTAL	Fresh Acute	1400.	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	100.	2	0	0.00	1	0	0.00	1	0	0.00						
01077	SILVER, TOTAL	Fresh Acute	4.1	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	100.	2	0	0.00	1	0	0.00	1	0	0.00						
01147	SELENIUM, TOTAL	Fresh Acute	20.	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	50.	2	0	0.00	1	0	0.00	1	0	0.00						
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	Other-Hi Lim.	200.	1	0	0.00				1	0	0.00						
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	0 &	0	0.00												
71900	MERCURY, TOTAL	Fresh Acute	2.4	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	2.	2	0	0.00	1	0	0.00	1	0	0.00						
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	3	0	0.00				3	0	0.00						

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

Station Inventory for Station: WHIS0196

NPS Station ID: WHIS0196
LAT/LON: 40.708338/-122.518892
Agency: 21CAL-1
Date Created: 02/14/81
Location: SPRING CR AB STOWELL MINE
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): A2103700
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 18020112
Depth of Water: 0
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112003
RF1 Mile Point: 8.830
Distance from RF1: 7.70
On/Off RF1: OFF
RF3 Index: 18020112000304.54
RF3 Mile Point: 8.68
Distance from RF3: 0.51
On/Off RF3:
Description:

Parameter Inventory for Station: WHIS0196

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: WHIS0197

NPS Station ID: WHIS0197 LAT/LON: 40.715060/-122.635726 Agency: 11NPSWRD Date Created: 05/30/98
Location: CLEAR CREEK ABOVE FRENCH GULCH PARK FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): WHIS_CDWR_10
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 18020112 Depth of Water: 0 Aquifer:
Major Basin: CALIFORNIA Elevation: 0 Water Body Id:
Minor Basin: SACRAMENTO RIVER ECO Region:
RF1 Index: 18020112 RF1 Mile Point: 0.000 Distance from RF1: 0.80 On/Off RF1:
RF3 Index: 18010211001600.95 RF3 Mile Point: 5.98 Distance from RF3: 0.04 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE FRENCH GULCH CALIFORNIA 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS DESCRIBED BY THE CALIFORNIA DEPARTMENT OF WATER RESOURCES (CDWR) AS "CLEAR CREEK ABOVE FRENCH GULCH PARK" AND IS LOCATED OUTSIDE THE WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA (WHISKEYTOWN UNIT). THE DATA ARE FROM THE CDWR'S DATABASE AND ARE RELATED TO A STUDY OF THE CLEAR CREEK BASIN. THE STUDY BEGAN IN 1997 AND WILL CONTINUE FOR SEVERAL YEARS. FOR MORE INFORMATION ON THE DATA CONTACT THE CDWR; NORTHERN DIVISION: 2440 MAIN STREET; RED BLUFF CALIFORNIA 96080 (TEL 916-529-7300). FOR MORE INFORMATION ON THE WHISKEYTOWN UNIT OF THE PARK CONTACT THE CHIEF OF RESOURCES AT WHISKEYTOWN-SHASTA-TRINITY NATIONAL RECREATION AREA: P.O. BOX 188; WHISKEYTOWN CALIFORNIA 96095 (TEL 916-241-6584). THE DATA WERE PROCESSED AND UPLOADED TO STORET BY DONNIE DUSTIN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION: 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525 (TEL 970-225-3516; FAX 970-225-9965).

Parameter Inventory for Station: WHIS0197

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/97-01/06/98	4	9.25	9.475	14.3	5.1	14.549	3.814	**	**	**	**
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	10/07/97-01/06/98	4	48.65	49.05	57.7	41.2	46.803	6.841	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/07/97-01/06/98	4	92.5	89.5	111.	62.	616.333	24.826	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/07/97-01/06/98	4	91.	88.25	108.	63.	540.25	23.243	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	10/07/97-01/06/98	4	10.75	11.025	12.5	10.1	1.143	1.069	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	10/07/97-01/06/98	4	7.35	7.425	7.8	7.2	0.069	0.263	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	10/07/97-01/06/98	4	7.347	7.374	7.8	7.2	0.073	0.269	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/07/97-01/06/98	4	0.045	0.042	0.063	0.016	0.	0.02	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/07/97-01/06/98	4	35.5	34.75	43.	25.	82.917	9.106	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	10/07/97-12/04/97	3	0.01	0.008	0.01	0.005	0.	0.003	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/07/97-12/04/97	3 ##	0.005	0.013	0.03	0.005	0.	0.014	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/07/97-12/04/97	3 ##	0.1	0.077	0.1	0.03	0.002	0.04	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/13/97-11/13/97	1	46.	46.	46.	46.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/13/97-11/13/97	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/13/97-11/13/97	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	11/13/97-11/13/97	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/13/97-11/13/97	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	11/13/97-11/13/97	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	11/13/97-11/13/97	1	11.	11.	11.	11.	0.	0.	**	**	**	**

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

Parameter Inventory for Station: WHIS0197

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01002	ARSENIC, TOTAL (UG/L AS AS)	10/07/97-11/13/97	2	1.5	1.5	2.	1.	0.5	0.707	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	10/07/97-11/13/97	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	10/07/97-11/13/97	2 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	10/07/97-11/13/97	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	10/07/97-11/13/97	2	72.	72.	76.	68.	32.	5.657	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	10/07/97-11/13/97	2 ##	14.75	14.75	29.	0.5	406.125	20.153	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/07/97-11/13/97	2	5.5	5.5	6.	5.	0.5	0.707	**	**	**	**
01062	MOLYBDENUM, TOTAL (UG/L AS MO)	10/07/97-11/13/97	2 ##	11.75	11.75	19.	4.5	105.125	10.253	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	10/07/97-11/13/97	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	10/07/97-11/13/97	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	10/07/97-11/13/97	2	21.5	21.5	22.	21.	0.5	0.707	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	10/07/97-11/13/97	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	10/07/97-01/06/98	4	35.	72.	214.	4.	9592.	97.939	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	10/07/97-01/06/98	4	1.389	1.428	2.33	0.602	0.601	0.775	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			26.77								
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/13/97-11/13/97	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
71889	PHOSPHATE, ORTHO, SOLUBLE, AS PO4 (MG/L)	10/07/97-12/04/97	3	0.02	0.017	0.02	0.01	0.	0.006	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	10/07/97-11/13/97	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	10/07/97-01/06/98	4	0.45	0.825	2.2	0.2	0.856	0.925	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0197

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	4	0	0.00	1	0	0.00	3	0	0.00						
00406	PH, FIELD	Fresh Chronic	9.	4	0	0.00	1	0	0.00	3	0	0.00						
		Other-Lo Lim.	6.5	4	0	0.00	1	0	0.00	3	0	0.00						
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	3	0	0.00	1	0	0.00	2	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						
01002	ARSENIC, TOTAL	Fresh Acute	360.	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	50.	2	0	0.00	1	0	0.00	1	0	0.00						
01027	CADMIUM, TOTAL	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						
01034	CHROMIUM, TOTAL	Drinking Water	100.	2	0	0.00	1	0	0.00	1	0	0.00						
01042	COPPER, TOTAL	Fresh Acute	18.	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	1300.	2	0	0.00	1	0	0.00	1	0	0.00						
01051	LEAD, TOTAL	Fresh Acute	82.	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	15.	2	1	0.50	1	1	1.00	1	0	0.00						
01067	NICKEL, TOTAL	Fresh Acute	1400.	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	100.	2	0	0.00	1	0	0.00	1	0	0.00						
01077	SILVER, TOTAL	Fresh Acute	4.1	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	100.	2	0	0.00	1	0	0.00	1	0	0.00						
01147	SELENIUM, TOTAL	Fresh Acute	20.	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	50.	2	0	0.00	1	0	0.00	1	0	0.00						
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	Other-Hi Lim.	200.	4	1	0.25	1	1	1.00	3	0	0.00						
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	0 &	0	0.00												
71900	MERCURY, TOTAL	Fresh Acute	2.4	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	2.	2	0	0.00	1	0	0.00	1	0	0.00						
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	4	0	0.00	1	0	0.00	3	0	0.00						

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

Station Inventory for Station: WHIS0198

NPS Station ID: WHIS0198
LAT/LON: 40.715838/-122.516116
Agency: 21CAL-1
Date Created: 02/14/81
Location: SPRING CREEK NR MO OF STOWELL MINE
FIPS State/County: 06089 CALIFORNIA/SHASTA
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): A2103600
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 18020112
Depth of Water: 0
Aquifer:
Major Basin: CALIFORNIA
Elevation: 0
Water Body Id:
Minor Basin: SACRAMENTO RIVER
ECO Region:
RF1 Index: 18020112
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 18020112000304.54
RF3 Mile Point: 5.12
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: WHIS0198

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/26/52-06/26/52	1	82.	82.	82.	82.	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	06/26/52-06/26/52	1	6.7	6.7	6.7	6.7	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	06/26/52-06/26/52	1	6.7	6.7	6.7	6.7	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/26/52-06/26/52	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	06/26/52-06/26/52	1	150.	150.	150.	150.	0.	0.	**	**	**	**
39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	06/26/52-06/26/52	1	10.	10.	10.	10.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: WHIS0198

				Total	Exceed	Prop.	6/01-11/09			11/10-2/20			2/21-5/31			n/a		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00403	PH, LAB	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
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									

& - 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 WHIS Study Area

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	1073	21	0.02	484	5	0.01	296	11	0.04	293	5	0.02			
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	159	1	0.01	105	0	0.00	12	0	0.00	42	1	0.02			
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	2995	118	0.04	2357	0	0.00	280	118	0.42	358	0	0.00			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1336	3	0.00	653	2	0.00	320	0	0.00	363	1	0.00			
00400	PH	Fresh Chronic	9.	511	1	0.00	259	1	0.00	100	0	0.00	152	0	0.00			
		Other-Lo Lim.	6.5	511	84	0.16	259	8	0.03	100	30	0.30	152	46	0.30			
00403	PH, LAB	Fresh Chronic	9.	2319	0	0.00	538	0	0.00	698	0	0.00	1083	0	0.00			
		Other-Lo Lim.	6.5	2319	2134	0.92	538	440	0.82	698	671	0.96	1083	1023	0.94			
00406	PH, FIELD	Fresh Chronic	9.	1800	0	0.00	1583	0	0.00	112	0	0.00	105	0	0.00			
		Other-Lo Lim.	6.5	1800	0	0.00	1583	0	0.00	112	0	0.00	105	0	0.00			
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	1	0	0.00	1	0	0.00									
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	17	0	0.00	13	0	0.00	2	0	0.00	2	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	1041	1	0.00	453	0	0.00	295	0	0.00	293	1	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	6	0	0.00	2	0	0.00	3	0	0.00	1	0	0.00			
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	403	0	0.00	346	0	0.00	20	0	0.00	37	0	0.00			
00720	CYANIDE, TOTAL	Fresh Acute	0.022	8 &	1	0.13	1	0	0.00	7	1	0.14						
		Drinking Water	0.2	8 &	0	0.00	1	0	0.00	7	0	0.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	156	0	0.00	64	0	0.00	31	0	0.00	61	0	0.00			
		Drinking Water	250.	156	1	0.01	64	0	0.00	31	0	0.00	61	1	0.02			
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	195	0	0.00	86	0	0.00	52	0	0.00	57	0	0.00			
		Drinking Water	250.	195	0	0.00	86	0	0.00	52	0	0.00	57	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	149	63	0.42	40	10	0.25	30	16	0.53	79	37	0.47			
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	91	0	0.00	40	0	0.00	22	0	0.00	29	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	40	0	0.00	15	0	0.00	11	0	0.00	14	0	0.00			
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	38	0	0.00	16	0	0.00	4	0	0.00	18	0	0.00			
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	18	0	0.00	7	0	0.00	2	0	0.00	9	0	0.00			
		Drinking Water	50.	18	0	0.00	7	0	0.00	2	0	0.00	9	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	103	18	0.17	40	0	0.00	27	7	0.26	36	11	0.31			
		Drinking Water	50.	103	23	0.22	40	1	0.03	27	8	0.30	36	14	0.39			
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00							1	0	0.00			
01007	BARIUM, TOTAL	Drinking Water	2000.	63 &	0	0.00	25	0	0.00	14	0	0.00	24	0	0.00			
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	43 &	0	0.00	20	0	0.00	7	0	0.00	16	0	0.00			
		Drinking Water	4.	37 &	0	0.00	19	0	0.00	4	0	0.00	14	0	0.00			
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	50	32	0.64	1	1	1.00	18	12	0.67	31	19	0.61			
		Drinking Water	5.	50	29	0.58	1	1	1.00	18	11	0.61	31	17	0.55			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	170 &	76	0.45	54	17	0.31	48	18	0.38	68	41	0.60			
		Drinking Water	5.	170 &	76	0.45	54	17	0.31	48	18	0.38	68	41	0.60			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	6	0	0.00	2	0	0.00				4	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	94 &	2	0.02	45	0	0.00	25	1	0.04	24	1	0.04			
01040	COPPER, DISSOLVED	Fresh Acute	18.	61 &	45	0.74	7	2	0.29	17	14	0.82	37	29	0.78			
		Drinking Water	1300.	67	26	0.39	7	1	0.14	21	11	0.52	39	14	0.36			
01042	COPPER, TOTAL	Fresh Acute	18.	3843 &	3725	0.97	880	820	0.93	1329	1300	0.98	1634	1605	0.98			
		Drinking Water	1300.	3846	2869	0.75	882	786	0.89	1329	936	0.70	1635	1147	0.70			
01049	LEAD, DISSOLVED	Fresh Acute	82.	10	0	0.00	3	0	0.00	2	0	0.00	5	0	0.00			
		Drinking Water	15.	10	0	0.00	3	0	0.00	2	0	0.00	5	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	109	20	0.18	43	2	0.05	29	7	0.24	37	11	0.30			
		Drinking Water	15.	106 &	28	0.26	43	5	0.12	29	7	0.24	34	16	0.47			
01059	THALLIUM, TOTAL	Fresh Acute	1400.	57	0	0.00	20	0	0.00	11	0	0.00	26	0	0.00			
		Drinking Water	2.	38 &	20	0.53	13	0	0.00	11	7	0.64	14	13	0.93			
01067	NICKEL, TOTAL	Fresh Acute	1400.	74 &	1	0.01	37	0	0.00	20	0	0.00	17	1	0.06			
		Drinking Water	100.	72 &	5	0.07	37	2	0.05	18	1	0.06	17	2	0.12			
01077	SILVER, TOTAL	Fresh Acute	4.1	80 &	13	0.16	30	0	0.00	23	2	0.09	27	11	0.41			
		Drinking Water	100.	92 &	0	0.00	36	0	0.00	24	0	0.00	32	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	68	49	0.72	8	3	0.38	21	16	0.76	39	30	0.77			
		Drinking Water	5000.	68	29	0.43	8	1	0.13	21	11	0.52	39	17	0.44			
01092	ZINC, TOTAL	Fresh Acute	120.	2852	2746	0.96	690	640	0.93	862	839	0.97	1300	1267	0.97			
		Drinking Water	5000.	2852	1870	0.66	690	612	0.89	862	469	0.54	1300	789	0.61			
01097	ANTIMONY, TOTAL	Fresh Acute	88.	51	15	0.29	18	0	0.00	8	5	0.63	25	10	0.40			
		Drinking Water	6.	30 &	18	0.60	11	0	0.00	8	7	0.88	11	11	1.00			
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

EPA Water Quality Criteria Analysis for Entire WHIS Study Area

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
01147	SELENIUM, TOTAL	Fresh Acute	20.	100	3	0.03	38	1	0.03	27	2	0.07	35	0	0.00			
		Drinking Water	50.	100	0	0.00	38	0	0.00	27	0	0.00	35	0	0.00			
01220	CHROMIUM, HEXAVALENT, DISSOLVED	Fresh Acute	16.	2	0	0.00				2	0	0.00						
		Drinking Water	100.	2	0	0.00				2	0	0.00						
22708	URANIUM, NATURAL, TOTAL	Drinking Water	0.02	1	0	0.00				1	0	0.00						
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	183	14	0.08	181	14	0.08				2	0	0.00			
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	Other-Hi Lim.	200.	219	12	0.05	201	12	0.06	18	0	0.00						
31615	FECAL COLIFORM, MPN	Other-Hi Lim.	200.	2	0	0.00	1	0	0.00				1	0	0.00			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	1	0	0.00							1	0	0.00			
32101	BROMODICHLOROMETHANE, WHOLE WATER	Drinking Water	100.	2	0	0.00	1	0	0.00	1	0	0.00						
32102	CARBON TETRACHLORIDE, WHOLE WATER	Fresh Acute	35200.	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						
32104	BROMOFORM, WHOLE WATER	Drinking Water	100.	2	0	0.00	1	0	0.00	1	0	0.00						
32105	DIBROMOCHLOROMETHANE, WHOLE WATER	Drinking Water	100.	2	0	0.00	1	0	0.00	1	0	0.00						
32106	CHLOROFORM, WHOLE WATER	Fresh Acute	28900.	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	100.	2	0	0.00	1	0	0.00	1	0	0.00						
34010	TOLUENE IN WTR SMPLE GC-MS, HEXADECONE E	Fresh Acute	17500.	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	1000.	2	0	0.00	1	0	0.00	1	0	0.00						
34301	CHLOROBENZENE, TOTAL	Drinking Water	100.	2	0	0.00	1	0	0.00	1	0	0.00						
34371	ETHYLBENZENE, TOTAL	Fresh Acute	32000.	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	700.	2	0	0.00	1	0	0.00	1	0	0.00						
34391	HEXACHLOROBUTADIENE, TOTAL	Fresh Acute	90.	2	0	0.00	1	0	0.00	1	0	0.00						
34423	METHYLENE CHLORIDE, TOTAL	Drinking Water	5.	2	0	0.00	1	0	0.00	1	0	0.00						
34475	TETRACHLOROETHYLENE, TOTAL	Fresh Acute	5280.	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						
34501	1,1-DICHLOROETHYLENE, TOTAL	Drinking Water	7.	2	0	0.00	1	0	0.00	1	0	0.00						
34506	1,1,1-TRICHLOROETHANE, TOTAL	Drinking Water	200.	2	0	0.00	1	0	0.00	1	0	0.00						
34511	1,1,2-TRICHLOROETHANE, TOTAL	Drinking Water	5.	2	0	0.00	1	0	0.00	1	0	0.00						
34531	1,2-DICHLOROETHANE, TOTAL	Fresh Acute	118000.	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						
34536	1,2-DICHLOROBENZENE, TOTAL	Drinking Water	600.	2	0	0.00	1	0	0.00	1	0	0.00						
34541	1,2-DICHLOROPROPANE, TOTAL	Drinking Water	5.	2	0	0.00	1	0	0.00	1	0	0.00						
34546	TRANS-1,2-DICHLOROETHENE, TOTAL, IN WATE	Drinking Water	100.	2	0	0.00	1	0	0.00	1	0	0.00						
34551	1,2,4-TRICHLOROBENZENE, TOTAL	Drinking Water	70.	2	0	0.00	1	0	0.00	1	0	0.00						
34566	1,3-DICHLOROBENZENE, TOTAL	Drinking Water	600.	2	0	0.00	1	0	0.00	1	0	0.00						
34571	1,4-DICHLOROBENZENE, TOTAL	Drinking Water	75.	2	0	0.00	1	0	0.00	1	0	0.00						
34696	NAPHTHALENE, TOTAL	Fresh Acute	2300.	2	0	0.00	1	0	0.00	1	0	0.00						
38761	DBCP, WATER, DISSOLVED	Drinking Water	0.2	3 &	0	0.00	2	0	0.00	1	0	0.00						
39033	ATRAZINE IN WHOLE WATER SAMPLE	Drinking Water	3.	3	0	0.00	2	0	0.00	1	0	0.00						
39045	2,4,5-TP INCLUDES ACIDS & SALTS WATER SA	Drinking Water	50.	14	0	0.00	4	0	0.00	1	0	0.00	9	0	0.00			
39055	SIMAZINE IN WHOLE WATER	Drinking Water	4.	3	0	0.00	2	0	0.00	1	0	0.00						
39100	BIS(2-ETHYLHEXYL) PHTHALATE, WHOLE WATER	Fresh Acute	2000.	1	0	0.00				1	0	0.00						
		Drinking Water	6.	1	0	0.00				1	0	0.00						
39175	VINYL CHLORIDE-WHOLE WATER SAMPLE	Drinking Water	2.	2	0	0.00	1	0	0.00	1	0	0.00						
39180	TRICHLOROETHYLENE-WHOLE WATER SAMPLE	Fresh Acute	45000.	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						
39340	GAMMA-BHC(LINDANE), WHOLE WATER	Fresh Acute	2.	10 &	0	0.00	3	0	0.00	2	0	0.00	5	0	0.00			
		Drinking Water	0.2	10 &	0	0.00	3	0	0.00	2	0	0.00	5	0	0.00			
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATE	Fresh Acute	2.4	1	0	0.00				1	0	0.00						
		Drinking Water	2.	1	0	0.00				1	0	0.00						
39390	ENDRIN IN WHOLE WATER SAMPLE	Fresh Acute	0.18	15	0	0.00	4	0	0.00	2	0	0.00	9	0	0.00			
		Drinking Water	2.	15	0	0.00	4	0	0.00	2	0	0.00	9	0	0.00			
39400	TOXAPHENE IN WHOLE WATER SAMPLE	Fresh Acute	0.73	12 &	0	0.00	4	0	0.00	2	0	0.00	6	0	0.00			
		Drinking Water	3.	15	0	0.00	4	0	0.00	2	0	0.00	9	0	0.00			
39410	HEPTACHLOR IN WHOLE WATER SAMPLE	Fresh Acute	0.52	1	0	0.00				1	0	0.00						
		Drinking Water	0.4	1	0	0.00				1	0	0.00						
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE	Fresh Acute	0.52	1	0	0.00				1	0	0.00						
		Drinking Water	0.2	1	0	0.00				1	0	0.00						
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE	Drinking Water	40.	12 &	0	0.00	4	0	0.00	2	0	0.00	6	0	0.00			
39730	2,4-D IN WHOLE WATER SAMPLE	Drinking Water	70.	15	0	0.00	4	0	0.00	2	0	0.00	9	0	0.00			
39760	SILVEX IN WHOLE WATER SAMPLE	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

EPA Water Quality Criteria Analysis for Entire WHIS Study Area

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	6/01-11/09 Obs	6/01-11/09 Exceed	6/01-11/09 Prop.	11/10-2/20 Obs	11/10-2/20 Exceed	11/10-2/20 Prop.	2/21-5/31 Obs	2/21-5/31 Exceed	2/21-5/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
39782	LINDANE IN WHOLE WATER SAMPLE	Fresh Acute	2.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	0.2	2	0	0.00	1	0	0.00				1	0	0.00			
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	43	0	0.00	18	0	0.00	6	0	0.00	19	0	0.00			
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	68 &	0	0.00	32	0	0.00	10	0	0.00	26	0	0.00			
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	1	0	0.00							1	0	0.00			
		Drinking Water	2.	1	0	0.00							1	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	105	5	0.05	43	2	0.05	25	3	0.12	37	0	0.00			
		Drinking Water	2.	105	5	0.05	43	2	0.05	25	3	0.12	37	0	0.00			
77093	CIS-1,2-DICHLOROETHYLENE, WHOLE WATER	Drinking Water	70.	2	0	0.00	1	0	0.00	1	0	0.00						
77128	STYRENE, WHOLE WATER	Drinking Water	100.	2	0	0.00	1	0	0.00	1	0	0.00						
77651	1,2-DIBROMOETHANE, WHOLE WATER	Drinking Water	0.05	3 &	0	0.00	2	0	0.00	1	0	0.00						
81405	CARBOFURAN (EURADAN) WHOLE WATER SAMPLE	Drinking Water	40.	1	0	0.00				1	0	0.00						
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	103	0	0.00	70	0	0.00	1	0	0.00	32	0	0.00			
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	303	0	0.00	131	0	0.00	91	0	0.00	81	0	0.00			

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

NPS Servicewide Inventory and Monitoring Program Level I

Water Quality Parameter Inventory Data Evaluation and Analysis:

Missing Level I Groups

There are STORET Data for Every Level I I&M Parameter Group Within the WHIS Study Area

NPS Servicewide Inventory and Monitoring Program Level I

Water Quality Parameter Inventory Data Evaluation and Analysis:

Present Level I Groups

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

Alkalinity		Total Obs.	01/01/85 to 11/20/98	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	282	194	42	46	23
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	5	0	5	0	2
00430	ALKALINITY, CARBONATE (MG/L AS CACO3)	3	0	3	0	3
00440	BICARBONATE ION (MG/L AS HCO3)	117	17	22	78	22
00445	CARBONATE ION (MG/L AS CO3)	67	16	21	30	22
		474	227	93	154	72 (36)[1]

pH		Total Obs.	01/01/85 to 11/20/98	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00400	PH (STANDARD UNITS)	511	13	266	232	35
00403	PH, LAB (STANDARD UNITS)	2319	1474	780	65	26
00406	PH, FIELD (STANDARD UNITS)	1803	1691	104	8	18
		4633	3178	1150	305	79 (76)[1]

Conductivity		Total Obs.	01/01/85 to 11/20/98	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	2708	1549	828	331	43
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	624	350	132	142	59
		3332	1899	960	473	102 (89)[1]

Dissolved Oxygen		Total Obs.	01/01/85 to 11/20/98	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE (MG/L)	3149	2859	282	8	16
00300	OXYGEN, DISSOLVED (MG/L)	1336	7	811	518	26
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION	2086	2086	0	0	8
		6571	4952	1093	526	50 (42)[1]

Water Temperature		Total Obs.	01/01/85 to 11/20/98	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	6586	3358	2512	716	70
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	1756	856	139	761	18
		8342	4214	2651	1477	88 (72)[1]

Flow		Total Obs.	01/01/85 to 11/20/98	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00058	FLOW RATE, GALLONS/MIN.	93	0	93	0	25
00060	FLOW, STREAM, MEAN DAILY CFS	371	0	9	362	7
00061	FLOW, STREAM, INSTANTANEOUS CFS	2848	819	885	1144	29
00065	STAGE, STREAM (FEET)	156	7	18	131	1
		3468	826	1005	1637	62 (56)[1]

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

Clarity/Turbidity		Total Obs.	01/01/85 to 11/20/98	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00070	TURBIDITY, (JACKSON CANDLE UNITS)	1073	0	680	393	19
00075	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	106	0	0	106	3
00076	TURBIDITY, HACH TURBIDIMETER (FORMAZIN TURB UNIT)	159	9	144	6	3
00078	TRANSPARENCY, SECCHI DISC (METERS)	92	88	4	0	9
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	106	14	92	0	24
82078	TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS NTU	103	86	9	8	9
82079	TURBIDITY, LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	303	245	58	0	18
		1942	442	987	513	85 (77)[1]

Nitrate/Nitrogen		Total Obs.	01/01/85 to 11/20/98	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	53	42	11	0	8
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	11	7	4	0	3
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	17	1	15	1	3
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	1041	3	679	359	21
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	6	6	0	0	1
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	403	394	9	0	14
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	354	354	0	0	5
71850	NITRATE NITROGEN, TOTAL (MG/L AS NO3)	43	22	21	0	14
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	76	19	6	51	20
		2004	848	745	411	89 (58)[1]

Phosphate/Phosphorus		Total Obs.	01/01/85 to 11/20/98	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	353	0	242	111	17
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	530	6	241	283	18
00665	PHOSPHORUS, TOTAL (MG/L AS P)	421	400	20	1	16
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	381	356	6	19	7
		1685	762	509	414	58 (34)[1]

Chlorophyll		Total Obs.	01/01/85 to 11/20/98	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
32209	CHLOROPHYLL A (UG/L) FLUOROMETRIC CORRECTED	356	356	0	0	5
		356	356	0	0	5 (5)[1]

Sulfates/Total Dissolved Solids/Hardness		Total Obs.	01/01/85 to 11/20/98	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00900	HARDNESS, TOTAL (MG/L AS CACO3)	1278	56	720	502	54
00945	SULFATE, TOTAL (MG/L AS SO4)	149	17	120	12	42
00946	SULFATE, DISSOLVED (MG/L AS SO4)	91	34	6	51	18
70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), (MG/L)	92	42	22	28	20
		1610	149	868	593	134 (76)[1]

Bacteria		Total Obs.	01/01/85 to 11/20/98	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
31505	COLIFORM, TOT, MPN, CONFIRMED TEST,35C(TUBE 31506)	183	151	32	0	45
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	219	168	51	0	51
31615	FECAL COLIFORM, MPN, EC MED, 44.5C (TUBE 31614)	2	2	0	0	1
31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5C	1	1	0	0	1
		405	322	83	0	98 (52)[1]

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

Toxic Elements		Total Obs.	01/01/85 to 11/20/98	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
01097	ANTIMONY, TOTAL (UG/L AS SB)	51	3	48	0	25
01000	ARSENIC, DISSOLVED (UG/L AS AS)	18	0	0	18	1
01002	ARSENIC, TOTAL (UG/L AS AS)	106	53	53	0	39
01012	BERYLLIUM, TOTAL (UG/L AS BE)	57	9	48	0	25
01025	CADMIUM, DISSOLVED (UG/L AS CD)	50	0	49	1	4
01027	CADMIUM, TOTAL (UG/L AS CD)	184	61	122	1	44
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	6	0	0	6	1
01034	CHROMIUM, TOTAL (UG/L AS CR)	109	59	50	0	39
01220	CHROMIUM, HEXAVALENT, DISSOLVED IN (UG/L AS CR)	2	0	0	2	1
01040	COPPER, DISSOLVED (UG/L AS CU)	67	0	49	18	10
01042	COPPER, TOTAL (UG/L AS CU)	3847	1508	1299	1040	52
01049	LEAD, DISSOLVED (UG/L AS PB)	10	0	0	10	1
01051	LEAD, TOTAL (UG/L AS PB)	113	59	53	1	42
71890	MERCURY, DISSOLVED (UG/L AS HG)	1	0	0	1	1
71900	MERCURY, TOTAL (UG/L AS HG)	105	52	52	1	39
01067	NICKEL, TOTAL (UG/L AS NI)	88	42	46	0	33
01145	SELENIUM, DISSOLVED (UG/L AS SE)	1	0	0	1	1
01147	SELENIUM, TOTAL (UG/L AS SE)	100	53	47	0	35
01077	SILVER, TOTAL (UG/L AS AG)	97	44	53	0	39
01059	THALLIUM, TOTAL (UG/L AS TL)	57	9	48	0	25
01090	ZINC, DISSOLVED (UG/L AS ZN)	68	0	49	19	11
01092	ZINC, TOTAL (UG/L AS ZN)	2853	1491	1041	321	41
00720	CYANIDE, TOTAL (MG/L AS CN)	9	1	8	0	4
34030	BENZENE IN WTR SMPLE GC-MS, HEXADECONE EXT. (UG/L)	2	2	0	0	2
32104	BROMOFORM, WHOLE WATER, (UG/L)	2	2	0	0	2
32102	CARBON TETRACHLORIDE, WHOLE WATER, (UG/L)	2	2	0	0	2
34301	CHLOROBENZENE, TOTAL (UG/L)	2	2	0	0	2
32105	DIBROMOCHLOROMETHANE, WHOLE WATER, (UG/L)	2	2	0	0	2
34311	CHLOROETHANE, TOTAL (UG/L)	2	2	0	0	2
34576	2-CHLOROETHYL VINYL ETHER, TOTAL (UG/L)	2	2	0	0	2
32106	CHLOROFORM, WHOLE WATER (UG/L)	2	2	0	0	2
32101	BROMODICHLOROMETHANE, WHOLE WATER (UG/L)	2	2	0	0	2
34496	1,1-DICHLOROETHANE, TOTAL (UG/L)	2	2	0	0	2
34531	1,2-DICHLOROETHANE, TOTAL (UG/L)	2	2	0	0	2
34501	1,1-DICHLOROETHYLENE, TOTAL (UG/L)	2	2	0	0	2
34541	1,2-DICHLOROPROPANE, TOTAL (UG/L)	2	2	0	0	2
34561	1,3-DICHLOROPROPENE, TOTAL (UG/L)	2	2	0	0	2
34371	ETHYLBENZENE, TOTAL (UG/L)	2	2	0	0	2
34413	METHYL BROMIDE, TOTAL (UG/L)	2	2	0	0	2
34418	METHYL CHLORIDE, TOTAL (UG/L)	2	2	0	0	2
34423	METHYLENE CHLORIDE, TOTAL (UG/L)	2	2	0	0	2
34506	1,1,1-TRICHLOROETHANE, TOTAL (UG/L)	2	2	0	0	2
34475	TETRACHLOROETHYLENE, TOTAL (UG/L)	2	2	0	0	2
34010	TOLUENE IN WTR SMPLE GC-MS, HEXADECONE EXT. (UG/L)	2	2	0	0	2
34546	TRANS-1,2-DICHLOROETHENE, TOTAL, IN WATER (UG/L)	2	2	0	0	2
34516	1,1,2,2-TETRACHLOROETHANE, TOTAL (UG/L)	2	2	0	0	2
34511	1,1,2-TRICHLOROETHANE, TOTAL (UG/L)	2	2	0	0	2
39180	TRICHLOROETHYLENE-WHOLE WATER SAMPLE (UG/L)	2	2	0	0	2
39175	VINYL CHLORIDE-WHOLE WATER SAMPLE (UG/L)	2	2	0	0	2
34273	BIS (2-CHLOROETHYL) ETHER, TOTAL (UG/L)	1	1	0	0	1
39100	BIS(2-ETHYLHEXYL) PHTHALATE, WHOLE WATER (UG/L)	1	1	0	0	1
34536	1,2-DICHLOROBENZENE, TOTAL (UG/L)	2	2	0	0	2
34566	1,3-DICHLOROBENZENE, TOTAL (UG/L)	2	2	0	0	2
34571	1,4-DICHLOROBENZENE, TOTAL (UG/L)	2	2	0	0	2
34391	HEXACHLOROBUTADIENE, TOTAL (UG/L)	2	2	0	0	2

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

Toxic Elements - Continued ...		Total Obs.	01/01/85 to 11/20/98	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
34696	NAPHTHALENE, TOTAL (UG/L)	2	2	0	0	2
34551	1,2,4-TRICHLOROBENZENE, TOTAL (UG/L)	2	2	0	0	2
39340	GAMMA-BHC(LINDANE), WHOLE WATER (UG/L)	13	7	6	0	10
39782	LINDANE IN WHOLE WATER SAMPLE (UG/L)	2	1	1	0	1
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATER (UG/L)	1	1	0	0	1
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	15	8	7	0	11
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	1	1	0	0	1
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	1	1	0	0	1
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	15	8	7	0	11
		8113	3537	3136	1440	615 (64)[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	474	227	47.9	36	21.3	13.2	10/10/60-01/06/98	12.7
pH	4633	3178	68.6	76	45.0	61.0	02/11/52-09/16/98	99.4
Conductivity	3332	1899	57.0	89	52.7	37.4	02/11/52-09/16/98	71.5
Dissolved Oxygen	6571	4952	75.4	42	24.9	156.5	01/27/55-01/07/98	153.0
Water Temperature	8342	4214	50.5	72	42.6	115.9	01/27/55-01/07/98	194.2
Flow	3468	826	23.8	56	33.1	61.9	02/11/52-03/31/94	82.3
Clarity/Turbidity	1942	442	22.8	77	45.6	25.2	01/27/55-02/18/98	45.1
Nitrate/Nitrogen	2004	848	42.3	58	34.3	34.6	02/11/52-11/20/98	42.8
Phosphate/Phosphorus	1685	762	45.2	34	20.1	49.6	05/21/58-09/16/98	41.8
Chlorophyll	356	356	100.0	5	3.0	71.2	04/21/93-08/16/94	269.2
Sulfates/Total Dissolved Solids/Hardness	1610	149	9.3	76	45.0	21.2	02/11/52-11/20/98	34.4
Bacteria	405	322	79.5	52	30.8	7.8	07/05/76-01/06/98	18.8
Toxic Elements	8113	3537	43.6	64	37.9	126.8	06/09/52-11/20/98	174.7

Water Quality Observations
Outside STORET Edit Criteria for WHIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
WHIS0028	01501	ALPHA, TOTAL	800501		-0.3000000	21CAL-3	A45/016-TREATED	
WHIS0063	39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	870410		100.0000000	21CAL-3	A45/505-INTAKE	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	690523	1300	6720.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	690603	0830	6440.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	690620	1400	7920.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	690627	1200	7360.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691004	1030	16200.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691005	1130	16700.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691006	0900	18700.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691008	1130	16700.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691009	1115	16700.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691010	1500	18000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691013	1300	17800.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691014	1240	17900.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691014	1325	18000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691015	1145	16500.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691015	1245	16500.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691016	1230	13900.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691016	1400	13900.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691017	0815	15600.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691017	0930	15600.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691018	0815	15100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691018	0830	15100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691019	0830	13900.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691020	0830	14200.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691021	0830	13400.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691022	0830	13300.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691023	1300	13100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691024	0840	13100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691024	1000	13100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691025	0830	12000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691025	0945	12000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691026	0800	12300.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691026	0915	12300.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691027	0800	10400.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691027	0900	10400.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691027	1330	12300.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691028	0830	13100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691029	0830	12700.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691030	0830	13100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691031	1430	12700.0000000	113BUREC	CRSPROUT	

Water Quality Observations
Outside STORET Edit Criteria for WHIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691101	0850	13400.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691101	0955	13400.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691102	0830	12700.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691102	0900	12700.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691102	0930	12700.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691103	0830	12700.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691104	0815	13200.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691105	0845	13200.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691106	0830	13400.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691107	1015	13100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691108	0945	7500.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691111	0700	6300.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691111	0710	6300.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691112	0830	7900.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691113	0830	8200.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691114	0830	10100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691115	0830	10200.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691116	0830	11200.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691117	0830	12200.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691118	0830	12300.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691119	0830	12300.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691120	0900	12700.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691121	0820	12900.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691122	0810	13100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691123	0815	13000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691124	0820	13100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691125	0830	12900.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691126	0830	12900.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691127	0815	13000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691128	0815	12700.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691129	0815	12900.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691130	0815	12900.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691201	0815	12900.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691202	0815	12700.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691203	0815	12700.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691204	0815	12500.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691205	1000	12700.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691206	0905	12300.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691207	0910	12700.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691208	0820	13100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691209	0815	10900.0000000	113BUREC	CRSPROUT	

Water Quality Observations
Outside STORET Edit Criteria for WHIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	691210	0815	10900.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700103	0850	5160.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700104	0820	5460.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700105	0810	5320.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700106	0815	5220.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700107	0815	5360.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700108	0800	5240.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700202	0935	5460.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700203	0830	5610.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700204	0800	5760.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700205	0800	5920.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700206	0800	6240.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700207	0800	6440.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700208	0800	6440.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700209	0800	6440.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700210	0800	6240.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700211	0800	6240.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700212	0800	6040.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700222	0900	5680.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700224	0800	5100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700225	0800	5100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700226	0800	5100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700227	0810	5360.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700228	0820	6040.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700325	0800	5100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700326	0800	5330.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700327	0800	5560.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700328	0900	5240.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700329	0900	5680.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700330	0800	6040.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700331	0800	5560.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700401	0800	5560.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700403	0800	5560.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700404	0900	6040.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700405	0700	5560.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700406		5200.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700408	0810	5240.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700410	0805	5360.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700411	0810	5920.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700412	0700	5560.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700413	0700	5360.0000000	113BUREC	CRSPROUT	

Water Quality Observations
Outside STORET Edit Criteria for WHIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700414	0700	5360.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700414	0800	5560.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700416	0700	5680.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700417	0800	5620.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700419	0800	5240.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700420	0800	5360.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700421	0800	5560.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700422	0800	5560.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700423	0800	5580.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700424	0800	6490.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700425	0800	7630.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700426	0800	8200.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700427	0800	6700.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700428	0800	6960.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700429	0800	6960.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700430	0800	7200.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700501	0700	6960.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700502	0700	7200.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700503	0700	7360.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700504	0700	7200.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700504	0930	8300.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700508	0700	8500.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700508	1300	8500.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700515	0700	5800.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700522	0800	8500.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700528	1030	9400.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700601	1230	8800.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700605	0700	9400.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700612	1300	7500.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700619	0730	9100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700626	1300	8200.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700706	1100	12300.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700710	0400	13100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700720	1015	14800.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700724	1330	14800.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700727	0700	8200.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700804	1200	16100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700807	0900	18400.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700824	0800	19400.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700831	1200	20300.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700903	1400	20300.0000000	113BUREC	CRSPROUT	

Water Quality Observations
Outside STORET Edit Criteria for WHIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700904	1330	20500.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700904	1345	20500.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700908	1300	20000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700909	1300	21100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700910	1330	21000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700910	1335	21000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700914	0700	21400.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700914	1430	21400.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700921	0700	20500.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700921	1000	20500.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700928	0700	20000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	700928	1330	20000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	701005	0700	19700.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	701005	1020	19700.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	701012	0700	20500.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	701012	1400	20500.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	701019	0700	19200.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	701019	1130	19200.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	701022	0700	20300.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	701022	1100	20300.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	701026	0700	20000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	701026	1240	20000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	701029	0700	22000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	701030	0700	21100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	701103	0700	19700.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	701103	0920	19700.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	701105	0700	17000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	701106	0700	17000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	701107	0700	16000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	701108	0930	12500.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	701109	0915	12500.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	701110	1010	12300.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	701110	1030	13200.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	701110	1200	12300.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	701112	0910	12200.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	701113	1145	11500.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	701115	0930	10900.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	701116	0930	10000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	701117	1015	7500.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	701118	0800	6500.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	701119	0815	6100.0000000	113BUREC	CRSPROUT	

Water Quality Observations
Outside STORET Edit Criteria for WHIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	701120	0830	5900.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	701121	0810	5800.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	701122	0700	5700.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	710127	0700	6000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	710128	0630	6150.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	710128	1500	6140.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	710129	0600	5520.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	710130	0600	5220.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	710131	1000	5080.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	710201	1330	5680.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	710201	1400	5680.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	710202	0700	5220.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	710205	0700	5520.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	710206	0700	5520.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	710207	0700	5520.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	710208	0930	5040.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	710210	0700	5600.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	710211	0700	5600.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	710223	0700	5220.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	710224	0600	5220.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	710225	0700	5560.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	710226	0700	5680.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	710301	0900	5920.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	710302	1441	6350.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	710305	0700	6600.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	710305	1450	6350.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	710308	0700	7200.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	710311	0630	6550.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	710312	0800	5360.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	710602	0700	6060.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	710602	1200	6060.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	710615	0800	15600.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	710622	0700	8450.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	710622	1130	8400.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	710624	0700	9100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	710624	1530	9200.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	710629	0700	8500.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	710629	1000	8500.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	710707	0700	7840.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	710727	1200	8200.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	710810	0700	8150.0000000	113BUREC	CRSPROUT	

Water Quality Observations
Outside STORET Edit Criteria for WHIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	710810	1100	8150.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	710903	0700	10100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	710903	0930	10100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	710916	0700	10100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	710916	1000	10100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	710930	0700	9050.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	710930	1230	9050.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	711014	0900	6500.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	711014	1100	6500.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	711019	1100	5900.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	711019	1500	5900.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	711022	1130	6200.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	711022	1200	6200.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	711027	1045	5900.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	711029	1030	6000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	711102	1000	5200.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	711105	0930	12100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	711105	1000	12200.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	711108	1130	11900.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	711112	1010	10200.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	711116	0930	7100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	711119	0920	7100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	711119	1000	7100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	711119	1130	13400.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	711119	1330	13400.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	711122	1000	13100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	711122	1400	12600.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	711124	1100	15000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	711126	1030	13000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	711129	1000	12000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	711201	0815	8400.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	711203	0930	10300.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	711203	1000	10300.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	711206	0810	9100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	711208	0815	8500.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	711208	1430	9000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	711210	1000	7400.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	711210	1100	7400.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	711213	0820	6400.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	711215	0815	6950.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	711217	1000	6550.0000000	113BUREC	CRSPROUT	

Water Quality Observations
Outside STORET Edit Criteria for WHIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	711220	0945	6590.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	711223	1000	6550.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	711224	1000	6700.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	711226	0900	6450.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	711227	0900	5560.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	711228	0800	5920.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	711230	1000	7400.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	720103	0900	6240.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	720107	1000	5800.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	720107	1030	5800.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	720114	0800	6000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	720114	1000	6000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	720117	0800	5600.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	720117	1000	5600.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	720511	1100	5700.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	720512	1120	5700.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	720514	0800	5160.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	720519	1000	6000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	720602	1030	7000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	720602	1100	7000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	720613	1100	7800.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	720619	1230	10250.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	720623	1200	10550.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	720630	1130	11850.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	720707	1045	13650.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	720710	1300	15100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	720714	1015	15100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	720714	1120	15100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	720721	1130	16500.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	720731	1000	19000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	720804	1030	20500.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	720808	1100	21800.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	720811	1130	23000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	720818	0930	20500.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	720825	1000	20000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	720901	1400	28400.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	720908	1100	28400.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	720911	1100	29600.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	720915	1100	24600.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	720922	1100	25400.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	720926	1100	32200.0000000	113BUREC	CRSPROUT	

Water Quality Observations
Outside STORET Edit Criteria for WHIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	720927	0945	19600.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	720928	1000	16400.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	721006	1100	18200.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	721011	1120	10400.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	721013	1120	8500.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	721018	1015	5800.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	721018	1100	5800.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	721025	1440	5800.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	721027	1400	6350.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	721103	1100	6700.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	721105	0830	6440.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	721108	0800	6960.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	721110	0900	6000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	721111	0500	7100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	730223	0800	5800.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	730226	0825	5020.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	730412	0800	5240.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	730413	0800	5450.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	730416	0600	5240.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	730418	0600	5240.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	730419	0500	5080.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	730420	0900	5050.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	730426	0800	5100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	730513	0800	5080.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	730514	0800	5080.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	730515	0800	5080.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	730517	0800	5080.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	730518	0800	5120.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	730528	0800	5240.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	730601	0900	7100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	730604	0600	7760.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	730606	0800	9200.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	730608	0800	11200.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	730611	0800	11200.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	730613	0800	11600.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	730618	0800	14400.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	730622	0800	16500.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	730629	1000	17000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	730706	1100	18000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	730713	0930	25400.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	730720	0930	26200.0000000	113BUREC	CRSPROUT	

Water Quality Observations
Outside STORET Edit Criteria for WHIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	730727	1130	23200.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	730803	1000	26200.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	730807	1530	31200.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	730810	1100	27800.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	730817	0900	31200.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	730824	0930	33000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	730831	1030	26800.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	730907	1030	30200.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	730911	1030	36800.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	730914	0930	32600.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	730921	0900	33000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	730928	1200	30400.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	731005	1030	27800.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	731009	1130	20200.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	731012	1100	21800.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	731023	0900	19600.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	731024	0900	14800.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	731026	0900	8800.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	731030	0900	7400.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	731031	0900	7400.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	731102	0900	9800.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	731105	0900	9400.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	731106	0900	10900.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	731107	0900	11200.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	731109	0900	5400.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	740111	0900	5600.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	740204	0900	5800.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	740206	0300	6460.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	740206	0900	6400.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	740208	0900	7100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	740211	0900	7420.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	740213	0900	5240.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	740215	0900	6950.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	740219	0900	5200.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	740220	0900	5080.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	740222	0900	5600.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	740225	0900	5450.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	740227	0900	6150.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	740325	0900	5920.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	740419	0900	5200.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	740422	0900	6360.0000000	113BUREC	CRSPROUT	

Water Quality Observations
Outside STORET Edit Criteria for WHIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	740424	0900	5360.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	740426	0900	5200.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	740503	0900	5350.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	740508	0900	5080.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	740510	0900	6150.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	740513	0900	5360.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	740515	0900	5680.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	740517	0900	6350.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	740520	0900	6050.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	740522	0900	5050.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	740523	1200	7000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	740529	0900	7000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	740531	0900	7000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	740607	0900	7100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	740612	0900	7600.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	740614	0900	7600.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	740621	0900	8000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	740628	0900	8700.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	740705	0900	10000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	740710	1100	5800.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	740712	1100	5400.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	740719	1200	5400.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	740806	1200	8500.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	740816	0800	11600.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	740823	0800	14000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	740829	1100	16000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	740906	0900	17000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	740910	1200	17000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	741016	1600	16100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	741023	1100	15600.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	741030	1000	17500.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	741111	1100	18000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	741113	1100	5680.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	741115	1000	17000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	741122	1100	12300.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	741203	0930	9000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	741204	0940	8720.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	741206	1320	7500.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	750120	0830	5050.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	750122	0835	5240.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	750124	0915	6350.0000000	113BUREC	CRSPROUT	

Water Quality Observations
Outside STORET Edit Criteria for WHIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	750521	0850	5520.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	750523	1220	5600.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	750530	1030	5800.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	750606	1100	7800.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	750613	1000	9000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	750711	1130	10500.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	750718	0900	10550.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	750725	0900	12000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	750808	1000	13200.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	750811	1030	13000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	750815	1000	15000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	750822	1100	15500.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	750828	0900	15480.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	750905	1030	16500.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	750912	1100	17000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	750919	1115	18400.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	750926	1330	21100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	751003	0830	22400.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	751010	1100	13100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	751015	1100	16500.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	751017	0930	16500.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	751024	1000	12300.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	751107	1130	10100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	751110	1130	9400.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	751113	0930	8200.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	751114	1000	9100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	751121	1200	9100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	751205	1000	7800.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	751212	1030	6900.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	751215	1230	5800.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	751219	1145	5600.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	760102	1100	11600.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	760109	1000	12000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	760116	1030	10400.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	760123	1000	10400.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	760206	0900	9100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	760210	1300	10100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	760213	0900	11600.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	760219	0900	9100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	760227	0800	7600.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	760301	0900	7600.0000000	113BUREC	CRSPROUT	

Water Quality Observations
Outside STORET Edit Criteria for WHIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	760303	0900	6440.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	760305	0900	6000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	760611	1315	5600.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	760618	0830	6300.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	760625	0930	8000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	760702	1100	10200.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	760709	1000	11200.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	760716	0930	13300.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	760723	1000	20000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	760730	0900	21100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	760806	1030	18000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	760811	1030	19400.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	760813	1030	20500.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	760816	0930	9000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	760820	1500	8050.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	760827	1000	5450.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	760903	0900	9700.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	760908	1400	11000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	760910	1000	12100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	760924	1100	15600.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	761001	1100	12700.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	761008	1100	13900.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	761015	0930	16100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	761022	1030	16500.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	761029	1000	17400.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	761105	1000	18400.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	761108	1200	18000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	761203	1030	11600.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	761208	1000	13000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	761210	1000	12700.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	761217	1000	13900.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	761223	0930	14800.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	761230	1430	13400.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	770107	0930	12700.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	770112	1215	12700.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	770114	0900	10100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	770121	0830	9000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	770128	1330	9500.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	770204	1100	9500.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	770207	1300	9700.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	770211	1000	8000.0000000	113BUREC	CRSPROUT	

Water Quality Observations
Outside STORET Edit Criteria for WHIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	770218	0930	10000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	770225	1330	10600.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	770304	1400	8700.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	770308	0930	9200.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	770311	0845	9700.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	770318	1130	10100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	770323	0850	7000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	770325	1030	9000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	770401	1300	12300.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	770408	0930	13600.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	770413	1100	12000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	770415	0900	11000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	770422	0900	12000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	770429	1000	10200.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	770506	0930	8000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	770513	1000	6000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	770520	1000	8200.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	770527	0830	6000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	770603	0815	5800.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	770610	0900	5800.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	770617	1100	6300.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	770624	1400	7400.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	770701	1030	8500.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	770708	1000	9200.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	770715	1000	11200.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	770805	1000	23700.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	770805	1400	25100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	770812	0900	24300.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	770819	1030	24300.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	770826	1500	23000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	770901	1430	22400.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	770908	1400	23000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	770916	0900	20000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	770917	1937	13100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	770919	0830	12240.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	770919	1722	6800.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	770920	0900	5080.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	770923	0900	5680.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	770924	0900	9720.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	770925	1922	10250.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	770926	0900	7600.0000000	113BUREC	CRSPROUT	

Water Quality Observations
Outside STORET Edit Criteria for WHIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	770927	0900	7360.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	770928	0900	8250.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	770929	0900	8720.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	770930	0600	7800.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	770930	0900	8050.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	771001	0900	7600.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	771002	0900	5680.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	771003	0900	6550.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	771004	0900	6350.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	771005	0900	7360.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	771007	0600	5050.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	771007	0915	7400.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	771008	0700	6240.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	771009	0700	5560.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	771010	0700	5240.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	771011	0900	5200.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	771012	0900	6150.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	771014	1000	7400.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	771015	0530	8250.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	771016	0635	7920.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	771017	0945	8500.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	771018	0830	10550.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	771019	0915	9100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	771020	0900	7200.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	771021	1000	9500.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	771022	0425	10000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	771023	0702	10550.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	771024	0730	10040.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	771025	0900	10100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	771026	0900	9100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	771027	0900	9100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	771028	0600	9100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	771028	0930	14000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	771029	0900	9100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	771030	0900	11200.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	771031	0900	10400.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	771101	0900	13400.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	771102	0900	9600.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	771103	0900	16100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	771104	0845	14800.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	771105	0900	10900.0000000	113BUREC	CRSPROUT	

Water Quality Observations
Outside STORET Edit Criteria for WHIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	771106	0900	9100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	771107	0900	9400.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	771108	0900	9100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	771109	0900	9100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	771110	0900	10090.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	771111	1000	13100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	771112	0900	9400.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	771113	0900	9100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	771114	0930	9400.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	771115	0800	11600.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	771118	1000	15100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	771202	0900	5600.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	771205	1150	7400.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	771209	1000	9000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	771212	1022	8960.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	771214	0900	5560.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	780224	1000	5800.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	780227	1030	5900.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	780301	0848	5080.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	780320	0900	6600.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	780324	0900	6350.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	780327	0845	6960.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	780331	1030	6700.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	780515	1000	5080.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	780517	0930	5340.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	780518	1200	5200.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	780522	0915	5700.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	780524	0915	5900.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	780527	1200	6600.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	780530	0840	6800.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	780531	0915	6600.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	780602	1110	6800.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	780605	0917	7200.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	780607	0950	7800.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	780608	1030	7800.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	780612	1030	7400.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	780614	0840	8700.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	780616	1200	9000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	780619	0920	9200.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	780621	0850	9500.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	780624	1000	9700.0000000	113BUREC	CRSPROUT	

Water Quality Observations
Outside STORET Edit Criteria for WHIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	780626	0900	10040.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	780628	0930	10000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	780630	1000	10000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	780703	0839	9250.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	780705	0845	9700.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	780717	0855	16100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	780721	1000	16500.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	780724	0930	20050.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	780726	1010	17000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	780728	0930	18400.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	780802	0900	21100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	780804	0900	26600.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	780809	0900	20000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	780811	1000	27300.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	780814	1300	33800.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	780816	0830	27300.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	780825	0900	29000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	781214	0900	8200.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	781214	1901	12900.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	790101		11300.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	790103		10500.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	790620		5400.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	790711		11900.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	790801		20300.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	790815		26400.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	790823		21000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	790829		18100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	790905		16500.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	790912		18000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	790919		21800.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	790926		17400.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	791003		13700.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	791010		14500.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	791012		5430.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	791017		10300.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	791024		8300.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	791115		7700.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	791119		5880.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	791126		6620.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	791203		5840.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	791206		6080.0000000	113BUREC	CRSPROUT	

Water Quality Observations
Outside STORET Edit Criteria for WHIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	791210		6110.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	791220		6400.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	791231	0700	5170.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	800207	0900	5480.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	800321	0900	5120.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	800324	0900	5610.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	800327	0900	5930.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	800331	0900	6550.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	800403	0900	6450.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	800414	0900	5670.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	800602	0900	5160.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	800609	0900	5280.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	800616	0900	5480.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	800623	0900	5810.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	800630	0900	6200.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	800707	0900	7040.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	800714	0900	8210.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	800721	0900	11300.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	800728	0900	14600.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	800804	0900	12600.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	800811	0900	12900.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	800818	0900	13100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	800825	0900	14700.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	800902	0900	14700.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	800908	0900	15700.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	800915	0900	14300.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	800922	0900	12600.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	800929	0900	13500.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	801006	0900	13700.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	801014	0900	12500.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	801022	0900	11300.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	801204	0700	10400.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	801205	0700	10400.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	801208	0900	10100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	801209	0700	10400.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	801210	0700	9640.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	801211	0900	8370.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	801212	0900	7090.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	810608	0900	5280.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	810622	0900	6470.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	810629	0900	11100.0000000	113BUREC	CRSPROUT	

Water Quality Observations
Outside STORET Edit Criteria for WHIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	810706	0900	46100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	810713	0900	11600.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	810720	0900	12800.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	810727	0900	14600.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	810804	0900	14200.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	810810	0900	16200.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	810817	0900	15800.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	810824	0900	15600.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	810831	0900	16300.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	810908	0900	16500.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	810914	0900	17300.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	810921	0900	16900.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	810929	0900	11000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	810930	0900	11000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	811006	0900	13900.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	811027	0900	10600.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	811103	0900	8930.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	811110	0900	9640.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	820601	0900	5330.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	820607	0900	6600.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	820614	0900	7330.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	820621	0900	7470.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	820628	0900	7900.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	820706	0900	7160.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	820714	0900	7540.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	820720	0900	10600.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	820726	0900	11500.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	820802	0900	13000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	820809	0900	5820.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	820816	0900	6370.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	820823	0900	64900.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	820830	0900	11800.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	820907	0900	11900.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	820913	0900	10300.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	820920	0900	7960.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	820927	0900	11200.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	821004	0930	11200.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	821012	0900	5800.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	821018	0845	6080.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	821108	0915	6060.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	821115	1130	6850.0000000	113BUREC	CRSPROUT	

Water Quality Observations
Outside STORET Edit Criteria for WHIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	821220	0900	5410.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	821221	0950	5450.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	830711	0940	5300.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	830721	0900	6770.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	830801	1300	6280.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	830808	1000	7470.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	830815	1000	7680.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	830822	0930	5270.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	830829	0855	5930.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	830902	1130	6540.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	830906	0850	7400.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	830912	0850	6360.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	830919	0852	8330.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	830926	1310	6200.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	840723	1058	5270.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	840813	0930	6220.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	840820	0905	6340.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	840827	0924	6460.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	840904	0935	6260.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	840910	0900	8600.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	840917	1305	7900.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	840920	0845	8150.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	840924	0935	8590.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	841001	0930	9620.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	841009	0900	8920.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	841016	1333	7990.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	841029	0905	6370.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	850722	1328	5110.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	850805	1111	5990.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	850819	1013	5170.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	850904	0840	5260.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	860707	0900	9750.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	860717	1440	10700.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	860723	1440	6980.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	860806	1300	8600.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	860815	1215	15340.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	860820	1350	9020.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	860828	0820	9000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	860905	0800	12990.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	860910	0925	9280.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	860922	0805	6510.0000000	113BUREC	CRSPROUT	

Water Quality Observations
Outside STORET Edit Criteria for WHIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	861006	0745	5350.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	861021	0755	5100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	861110	1130	5050.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	861117	0930	5100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	861118	1100	5200.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	870707	0750	5020.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	870713	0823	5300.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	870720	0840	5290.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	870728	1330	5270.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	870804	0810	5330.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	870810	0750	6130.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	870817	0900	6290.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	870824	0815	6830.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	870831	0820	9700.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	870908	0830	12390.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	870918	1100	11620.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	871002	1100	7190.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	871005	0850	7470.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	871013	0820	7050.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	871019	0810	6750.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	871026	0820	8190.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	871102	0800	5160.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	890731	0855	5400.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	890807	0835	5300.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	890814	0830	5900.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	890821	0840	5900.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	890828	1019	5600.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	890905	0842	9200.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	890911	0841	8800.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	890918	0849	6900.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	890922	1130	9300.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	890925	0835	7700.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	891002	0838	5400.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	891127	1000	5700.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	891204	0814	6000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	891211	0858	5500.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	900814	0816	5500.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	900821	0923	5900.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	900830	1231	5600.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	900910	1233	6000.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	901017	1233	6000.0000000	113BUREC	CRSPROUT	

Water Quality Observations
Outside STORET Edit Criteria for WHIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	910102	1212	5400.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	910107	1239	5600.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	910114	0820	5500.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	910122	0859	5100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	910129	1236	5200.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	910204	1232	5600.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	910211	0900	5300.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	910219	1223	5900.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	910225	1235	5200.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	910820	0835	6140.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	910826	1215	5250.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	910904	1230	5670.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	910909	1235	6100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	910916	1235	6790.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	910923	1220	6700.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	910930	1205	7770.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	911007	1310	7710.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	911015	0930	8180.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	911021	1145	8180.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	911113	1230	8300.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	911118	1230	7620.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	911125	1225	8230.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	911203	0855	8020.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	911209	1400	8510.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	911216	1225	9270.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	911223	1030	8900.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	911230	1110	8700.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920107	0850	6500.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920113	0815	8600.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920123	1005	8760.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920127	1230	8810.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920210	1235	7400.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920214	1145	8400.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920216	1230	8800.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920219	1231	7820.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920220	1017	6350.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920221	0810	6990.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920221	2040	7370.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920222	0840	7900.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920222	2040	7240.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920223	0835	7530.0000000	113BUREC	CRSPROUT	

Water Quality Observations
Outside STORET Edit Criteria for WHIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920223	2030	7100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920224	0800	7690.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920224	2030	6170.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920225	0845	5790.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920225	2030	7800.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920226	0823	6860.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920226	2030	7360.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920227	0705	8560.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920227	1245	8510.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920227	2040	7460.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920228	0705	7860.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920228	2035	8060.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920229	0910	7820.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920229	1956	7600.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920301	0840	7490.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920301	2000	7440.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920302	0740	7970.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920302	2045	7780.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920303	0810	8220.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920303	2030	7070.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920304	0840	7930.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920304	2030	7030.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920305	0805	6940.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920305	2030	5990.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920306	0810	7070.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920306	2030	6860.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920307	0840	7960.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920307	2030	6230.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920308	0835	7950.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920308	2050	7010.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920309	0750	7970.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920310	0805	6520.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920311	0745	7870.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920312	0855	7830.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920313	0800	7660.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920314	0845	7630.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920315	0845	6610.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920315	2030	6750.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920316	0053	6780.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920316	0800	6640.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920316	1400	7030.0000000	113BUREC	CRSPROUT	

Water Quality Observations
Outside STORET Edit Criteria for WHIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920316	2130	6810.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920317	0820	7010.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920317	1430	6960.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920317	2130	6890.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920318	0800	7870.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920318	2100	6380.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920319	0755	7190.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920319	2030	6850.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920320	0745	6930.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920321	0840	7410.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920322	0845	7010.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920323	0800	6910.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920324	0845	7060.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920325	0800	6770.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920326	0755	6810.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920327	0750	6350.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920328	0835	6510.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920329	0855	6090.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920330	0844	6100.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920331	0830	5980.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920401	0740	5790.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920402	0735	5650.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920403	0720	5510.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920404	0845	5470.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920405	0840	5370.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920406	0755	5200.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920407	0820	5290.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920814	1230	5360.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920817	0915	5260.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920825	0800	5500.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920901	1015	5700.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920909	0825	5080.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920916	0820	5040.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920923	0905	5510.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	920929	0830	5860.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	921007	0900	6490.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	921014	1045	6840.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	921021	0940	5960.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	921028	1200	5740.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	921125	1020	5430.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	930922	0830	5790.0000000	113BUREC	CRSPROUT	

Water Quality Observations
Outside STORET Edit Criteria for WHIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	930930	1050	7890.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	931101	1420	10090.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	931104	1035	10130.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	931108	0850	9080.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	931112	0915	8390.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	931115	1000	7240.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	931118	0915	6610.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	931123	0840	6520.0000000	113BUREC	CRSPROUT	
WHIS0082	01042	COPPER, TOTAL (UG/L AS CU)	931201	0945	6450.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	700504	0930	36000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	700508	1300	32000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	700515	0800	34400.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	700522	0800	35200.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	700528	1030	38000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	700601	1230	41000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	700605	1300	40400.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	700612	1300	36200.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	700619	0730	34400.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	700626	1300	32600.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	700706	1100	67000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	700710	1300	75000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	700720	1015	83500.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	700724	1330	86000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	700727	0700	62000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	700804	1200	93000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	700807	0900	93500.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	700824	0800	110000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	700831	1200	101000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	700903	1400	98000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	700904	1330	92000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	700910	1330	97000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	700914	1430	110000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	700921	1000	110000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	700928	1330	85000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	701005	1020	110000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	701012	1400	104000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	701019	1130	104000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	701022	1100	85000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	701026	1240	98000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	701103	0920	98000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	701110	1010	57000.0000000	113BUREC	CRSPROUT	

Water Quality Observations
Outside STORET Edit Criteria for WHIS

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NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	710615	0800	36400.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	710622	0700	36500.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	710622	1130	36500.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	710624	0700	34000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	710624	1530	34200.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	710629	0700	38000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	710629	1000	38000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	710707	0700	40400.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	710727	1200	62000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	710810	0700	69000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	710810	1100	69000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	710903	0700	77000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	710903	0930	77000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	710916	0700	73000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	710916	1000	73000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	710930	0700	73000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	710930	1230	73000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	711014	0900	69000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	711014	1100	69000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	711019	1100	67000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	711019	1500	67000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	711022	1130	69000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	711022	1200	69000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	711027	1045	62000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	711029	1030	64000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	711102	1000	58500.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	711105	0930	57000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	711105	1000	57000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	711108	1130	59000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	711112	1010	42000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	711116	0930	26000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	711122	1000	58500.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	711122	1400	58500.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	711203	0930	42000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	711203	1000	42000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	711208	1430	34000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	711210	1000	31000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	711210	1100	31000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	720602	1030	26800.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	720602	1100	26800.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	720613	1100	25200.0000000	113BUREC	CRSPROUT	

Water Quality Observations
Outside STORET Edit Criteria for WHIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	720619	1230	33500.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	720623	1200	35500.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	720630	1130	43000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	720707	1045	47500.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	720710	1300	50500.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	720714	1015	48500.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	720714	1120	48500.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	720721	1130	52000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	720731	1000	59000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	720804	1030	64000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	720808	1100	66000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	720811	1130	66000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	720818	0930	64000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	720825	1000	66000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	720901	1400	66000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	720908	1100	68000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	720911	1100	56600.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	720915	1100	72000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	720922	1100	76000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	720926	1100	64000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	720927	0945	62000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	720928	1000	59000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	721006	1100	56000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	721011	1120	32000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	730608	0800	30000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	730713	0930	55000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	730720	0930	81000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	730727	1130	71000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	730803	1000	79000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	730807	1530	97000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	730810	1100	89000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	730817	0900	89000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	730824	0930	89000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	730831	1030	92000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	730907	1030	89000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	730911	1030	92000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	730914	0930	86000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	730921	0900	79000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	730928	1200	76000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	731005	1030	68000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	731009	1130	44000.0000000	113BUREC	CRSPROUT	

Water Quality Observations
Outside STORET Edit Criteria for WHIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	731012	1100	59000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	731023	0900	38000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	740607	0900	27600.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	740612	0900	25600.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	740621	0900	26800.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	740628	0900	27600.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	740705	0900	33000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	740806	1200	27000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	740829	1100	38000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	740906	0900	40000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	740910	1200	40000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	741016	1600	52000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	741023	1100	43000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	741111	1100	40500.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	741115	1000	44500.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	741122	1100	27000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	760702	1100	29500.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	760709	1000	38000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	760716	0930	46500.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	760723	1000	70000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	760730	0900	55000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	760806	1030	34000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	760811	1030	46000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	760813	1030	63000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	760903	0900	26000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	760908	1400	28100.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	760910	1000	32000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	760924	1100	48000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	761001	1100	38000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	761008	1100	43000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	761015	0930	51000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	761022	1030	48000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	761029	1000	57000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	761105	1000	53000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	761108	1200	61000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	761203	1030	36000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	761208	1000	36000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	761210	1000	39000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	761217	1000	44000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	761223	0930	46000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	761230	1430	46000.0000000	113BUREC	CRSPROUT	

Water Quality Observations
Outside STORET Edit Criteria for WHIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	770107	0930	39000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	770112	1215	28000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	770114	0900	28000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	770121	0830	28000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	770128	1330	40000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	770204	1100	34000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	770207	1300	36000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	770211	1000	31000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	770218	0930	39000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	770225	1330	26000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	770304	1400	31000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	770308	0930	31000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	770311	0845	33000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	770318	1130	34000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	770325	1030	28000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	770401	1300	30000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	770408	0930	28000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	770413	1100	33000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	770415	0900	28000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	770422	0900	34000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	770429	1000	32000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	770506	0930	28000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	770513	1000	26000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	770617	1100	28000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	770624	1400	33000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	770701	1030	34000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	770708	1000	39000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	770715	1000	46000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	770805	1000	76000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	770805	1400	110000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	770812	0900	67000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	770819	1030	87000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	770826	1500	57000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	770901	1430	76000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	770908	1400	95000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	770916	0900	72000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	770930	0900	26000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	771007	0915	26000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	771014	1000	33000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	771021	1000	39000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	771028	0930	57000.0000000	113BUREC	CRSPROUT	

Water Quality Observations
Outside STORET Edit Criteria for WHIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	771104	0845	40000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	771111	1000	67000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	771118	1000	46000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	771202	0900	30000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	771209	1000	38000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	780324	0900	30000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	780331	1030	26000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	780512	0900	40000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	780518	1200	28000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	780527	1200	32000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	780608	1030	34000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	780616	1200	35000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	780624	1000	39000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	780630	1000	53000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	780721	1000	53000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	780728	0930	63000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	780804	0900	63000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	780811	1000	50000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	780825	0900	76000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	781214	0900	47500.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	781214	1901	42500.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	790101		42200.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	790103		42000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	790627		27400.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	790711		50300.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	790801		68300.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	790815		90300.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	790823		73700.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	790829		75800.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	790905		60800.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	790912		81000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	790919		86500.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	790926		90000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	791003		73900.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	791010		77200.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	791017		53700.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	791024		40000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	800303	0900	28900.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	800630	0900	25300.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	800707	0900	28600.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	800714	0900	33600.0000000	113BUREC	CRSPROUT	

Water Quality Observations
Outside STORET Edit Criteria for WHIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	800721	0900	44800.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	800728	0900	59300.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	800804	0900	60400.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	800811	0900	60600.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	800818	0900	62200.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	800825	0900	65900.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	800902	0900	64700.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	800908	0900	63800.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	800915	0900	58900.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	800922	0900	49800.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	800929	0900	51700.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	801006	0900	55200.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	801014	0900	62700.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	801022	0900	45700.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	801204	0700	44500.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	801205	0700	46200.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	801208	0900	43300.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	801209	0700	42900.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	801210	0700	41400.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	801211	0900	35500.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	801212	0900	28800.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	810608	0900	29000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	810617	0900	32400.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	810622	0900	35200.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	810629	0900	44500.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	810713	0900	46700.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	810720	0900	51400.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	810727	0900	59200.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	810804	0900	57500.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	810810	0900	60200.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	810817	0900	59200.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	810824	0900	59700.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	810831	0900	60400.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	810908	0900	66400.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	810914	0900	66000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	810921	0900	65000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	810929	0900	43100.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	810930	0900	43100.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	811006	0900	53000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	811027	0900	45700.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	811103	0900	32800.0000000	113BUREC	CRSPROUT	

Water Quality Observations
Outside STORET Edit Criteria for WHIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	811110	0900	35600.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	820601	0900	27000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	820607	0900	28600.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	820614	0900	29800.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	820621	0900	28900.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	820628	0900	29800.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	820706	0900	27900.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	820714	0900	30300.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	820720	0900	40700.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	820726	0900	44900.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	820802	0900	56000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	820809	0900	52700.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	820816	0900	57100.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	820830	0900	50400.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	820907	0900	65700.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	820913	0900	67200.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	820920	0900	44100.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	821004	0930	47900.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	821012	0900	33850.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	821018	0845	52520.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	821129	0935	26670.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	830614	1320	25710.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	830627	1300	27040.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	830705	1000	27440.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	830711	0940	35070.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	830721	0900	31400.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	830725	1240	55940.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	830801	1300	64840.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	830808	1000	71700.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	830815	1000	74810.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	830822	0930	87400.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	830829	0855	89300.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	830902	1130	70700.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	830906	0850	65000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	830912	0850	61300.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	830919	0852	77400.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	830926	1310	46400.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	831003	1100	43820.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	831012	0900	49190.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	831017	0935	49200.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	831024	0930	40800.0000000	113BUREC	CRSPROUT	

Water Quality Observations
Outside STORET Edit Criteria for WHIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	840702	1055	29340.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	840716	1010	31710.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	840723	1058	38200.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	840813	0930	46220.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	840820	0905	41930.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	840827	0924	51580.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	840904	0935	48290.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	840910	0900	42900.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	840917	1305	78000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	840920	0845	43500.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	840924	0935	41300.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	841001	0930	39000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	841009	0900	34100.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	841016	1333	33200.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	841029	0905	52800.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	850624	1030	27840.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	850703	1328	29260.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	850709	1055	28310.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	850715	1005	28180.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	850722	1328	29970.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	850729	1008	31400.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	850805	1111	34100.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	850819	1013	83610.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	850904	0840	69540.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	850909	1300	27540.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	850920	1005	33150.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	850925	1020	26640.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	851007	1319	60600.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	851015	1358	67590.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	851119	1325	37680.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	851125	0934	28630.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	860507	1217	26900.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	860513	0955	27700.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	860519	1140	25500.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	860609	1005	32490.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	860620	1335	40600.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	860707	0900	32500.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	860717	1440	88260.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	860723	1440	56400.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	860806	1300	46500.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	860815	1215	83520.0000000	113BUREC	CRSPROUT	

Water Quality Observations
Outside STORET Edit Criteria for WHIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	860820	1350	74680.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	860828	0820	73400.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	860905	0800	88400.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	860910	0925	68280.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	860922	0805	47830.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	860929	1020	43970.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	861014	0800	49630.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	861021	0755	59490.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	861201	0800	27800.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	861215	0815	26400.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	870112	1350	35800.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	870120	0810	73550.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	870605	1100	31250.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	870608	0805	33000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	870615	0950	26430.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	870625	1130	26870.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	870629	0800	25270.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	870707	0750	29430.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	870713	0823	68800.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	870728	1330	70870.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	870804	0810	73500.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	870810	0750	82200.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	870817	0900	92400.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	870824	0815	101000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	870831	0820	101300.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	870908	0830	57200.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	870918	1100	46200.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	871002	1100	40000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	871005	0850	34000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	871013	0820	39800.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	871019	0810	38000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	871026	0820	35800.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	871102	0800	35880.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	871109	0910	35000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	871116	0800	29600.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	871130	0900	25200.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	880705	1140	40000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	880711	0910	79000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	880721	0840	100000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	881103	1230	49400.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	890821	0840	26200.0000000	113BUREC	CRSPROUT	

Water Quality Observations
Outside STORET Edit Criteria for WHIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	890828	1019	30600.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	890905	0842	51200.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	890911	0841	57500.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	890918	0849	51000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	890922	1130	60000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	890925	0835	44000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	891002	0838	30000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	891010	0924	33600.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	891016	0850	30000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	891127	1000	28000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	891204	0814	28000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	891211	0858	25200.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	900515	0901	27600.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	900521	0844	28300.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	900731	0821	29200.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	900807	0812	52400.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	900814	0816	71400.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	900821	0923	66000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	900830	1231	62700.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	900905	1244	60000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	900910	1233	62000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	900917	1316	60000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	900924	1234	57000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	901001	1230	55000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	901010	1255	61000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	901017	1233	56000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	901022	1230	57000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	901105	1243	50000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	901110	0850	55000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	901114	0743	47000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	901119	1218	43000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	901126	1223	42000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	901203	1228	41000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	901210	1229	39000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	901217	0802	37000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	910102	1212	29500.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	910107	1239	28400.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	910114	0820	26600.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	910225	1235	26600.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	910729	0900	25450.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	910806	1515	30240.0000000	113BUREC	CRSPROUT	

Water Quality Observations
Outside STORET Edit Criteria for WHIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	910813	0855	30380.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	910820	0835	39190.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	910826	1215	45030.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	910904	1230	61350.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	910909	1235	66870.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	910916	1235	73720.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	910923	1220	71710.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	910930	1205	82220.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	911007	1310	79570.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	911015	0930	85460.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	911021	1145	69630.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	911028	1230	25840.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	911104	1235	41010.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	911113	1230	55560.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	911118	1230	59840.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	911125	1225	71130.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	911203	0855	69000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	911209	1400	68230.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	911216	1225	88000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	911223	1030	108900.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	911230	1110	93800.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920107	0850	72900.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920113	0815	91500.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920123	1005	92410.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920127	1230	86040.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920203	1220	77330.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920210	1235	70330.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920214	1145	76800.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920216	1230	76400.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920219	1231	68500.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920220	1017	64199.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920221	0810	59500.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920221	2040	70800.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920222	0840	69700.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920222	2040	70000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920223	0835	69710.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920223	2030	65600.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920224	0800	66900.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920224	2030	55000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920225	0845	52900.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920225	2030	72200.0000000	113BUREC	CRSPROUT	

Water Quality Observations
Outside STORET Edit Criteria for WHIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920226	0823	57900.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920226	2030	66220.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920227	0705	74100.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920227	1245	67500.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920227	2040	63500.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920228	0705	69750.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920228	2035	65660.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920229	0910	64010.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920229	1956	65560.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920301	0840	66300.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920301	2000	65199.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920302	0740	70950.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920302	2045	64390.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920303	0810	68240.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920303	2030	59200.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920304	0840	66500.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920304	2030	58540.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920305	0805	60570.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920305	2030	53300.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920306	0810	60170.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920306	2030	59300.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920307	0840	63840.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920307	2030	49170.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920308	0835	61570.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920308	2050	57600.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920309	0750	63910.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920310	0805	52000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920311	0745	62250.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920312	0855	62170.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920313	0800	61090.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920314	0845	62470.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920315	0845	54400.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920315	2030	58200.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920316	0053	55670.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920316	0800	53490.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920316	1400	54190.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920316	2130	52880.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920317	0820	54280.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920317	1430	53740.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920317	2130	56100.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920318	0800	60510.0000000	113BUREC	CRSPROUT	

Water Quality Observations
Outside STORET Edit Criteria for WHIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920318	2100	48330.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920319	0755	56480.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920319	2030	50100.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920320	0745	54780.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920321	0840	57080.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920322	0845	52900.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920323	0800	51660.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920324	0845	49300.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920325	0800	49400.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920326	0755	47030.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920327	0750	43850.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920328	0835	43740.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920329	0855	39100.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920330	0844	38150.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920331	0830	37270.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920401	0740	34010.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920402	0735	31370.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920403	0720	30030.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920404	0845	28700.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920405	0840	27000.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920407	0820	28170.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920408	0745	27760.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920805	0815	26730.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920812	0840	32650.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920814	1230	37160.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920817	0915	35400.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920825	0800	36700.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920901	1015	40630.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920909	0825	40140.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920916	0820	39820.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920923	0905	40670.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	920929	0830	43350.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	921007	0900	51900.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	921014	1045	57180.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	921021	0940	55500.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	921028	1200	54880.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	921125	1020	30370.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	921202	1105	28650.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	930818	0840	25960.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	930826	0920	33090.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	930901	0845	38500.0000000	113BUREC	CRSPROUT	

Water Quality Observations
Outside STORET Edit Criteria for WHIS

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NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	930908	0930	39340.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	930915	0900	39650.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	930922	0830	58820.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	930930	1050	72950.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	931101	1420	61500.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	931104	1035	59510.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	931108	0850	57580.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	931112	0915	57630.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	931115	1000	59020.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	931118	0915	55310.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	931123	0840	56510.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	931201	0945	54830.0000000	113BUREC	CRSPROUT	
WHIS0082	01092	ZINC, TOTAL (UG/L AS ZN)	931207	0910	48630.0000000	113BUREC	CRSPROUT	
WHIS0084	01042	COPPER, TOTAL (UG/L AS CU)	701022	1045	12300.0000000	113BUREC	CRSPRSRF	
WHIS0084	01042	COPPER, TOTAL (UG/L AS CU)	811120	0900	7500.0000000	113BUREC	CRSPRSRF	
WHIS0084	01042	COPPER, TOTAL (UG/L AS CU)	820607	0900	6040.0000000	113BUREC	CRSPRSRF	
WHIS0084	01042	COPPER, TOTAL (UG/L AS CU)	820614	0900	7420.0000000	113BUREC	CRSPRSRF	
WHIS0084	01042	COPPER, TOTAL (UG/L AS CU)	890828	1007	5600.0000000	113BUREC	CRSPRSRF	
WHIS0084	01042	COPPER, TOTAL (UG/L AS CU)	890905	0825	8800.0000000	113BUREC	CRSPRSRF	
WHIS0084	01042	COPPER, TOTAL (UG/L AS CU)	890911	0816	8500.0000000	113BUREC	CRSPRSRF	
WHIS0084	01042	COPPER, TOTAL (UG/L AS CU)	891120	0832	5700.0000000	113BUREC	CRSPRSRF	
WHIS0084	01042	COPPER, TOTAL (UG/L AS CU)	891127	1015	5500.0000000	113BUREC	CRSPRSRF	
WHIS0084	01042	COPPER, TOTAL (UG/L AS CU)	891204	0802	5600.0000000	113BUREC	CRSPRSRF	
WHIS0084	01042	COPPER, TOTAL (UG/L AS CU)	900814	0755	6000.0000000	113BUREC	CRSPRSRF	
WHIS0084	01042	COPPER, TOTAL (UG/L AS CU)	900821	0936	6600.0000000	113BUREC	CRSPRSRF	
WHIS0084	01042	COPPER, TOTAL (UG/L AS CU)	900830	1214	5600.0000000	113BUREC	CRSPRSRF	
WHIS0084	01042	COPPER, TOTAL (UG/L AS CU)	900905	1226	6000.0000000	113BUREC	CRSPRSRF	
WHIS0084	01042	COPPER, TOTAL (UG/L AS CU)	900910	1215	6000.0000000	113BUREC	CRSPRSRF	
WHIS0084	01042	COPPER, TOTAL (UG/L AS CU)	901017	1220	7000.0000000	113BUREC	CRSPRSRF	
WHIS0084	01042	COPPER, TOTAL (UG/L AS CU)	930930	1030	6530.0000000	113BUREC	CRSPRSRF	
WHIS0084	01042	COPPER, TOTAL (UG/L AS CU)	931101	1400	10320.0000000	113BUREC	CRSPRSRF	
WHIS0084	01042	COPPER, TOTAL (UG/L AS CU)	931104	1015	9420.0000000	113BUREC	CRSPRSRF	
WHIS0084	01042	COPPER, TOTAL (UG/L AS CU)	931108	0830	8810.0000000	113BUREC	CRSPRSRF	
WHIS0084	01042	COPPER, TOTAL (UG/L AS CU)	931112	0900	8350.0000000	113BUREC	CRSPRSRF	
WHIS0084	01042	COPPER, TOTAL (UG/L AS CU)	931115	0950	7230.0000000	113BUREC	CRSPRSRF	
WHIS0084	01042	COPPER, TOTAL (UG/L AS CU)	931118	0850	6580.0000000	113BUREC	CRSPRSRF	
WHIS0084	01042	COPPER, TOTAL (UG/L AS CU)	931123	0820	6530.0000000	113BUREC	CRSPRSRF	
WHIS0084	01042	COPPER, TOTAL (UG/L AS CU)	931201	0920	5620.0000000	113BUREC	CRSPRSRF	
WHIS0084	01092	ZINC, TOTAL (UG/L AS ZN)	701022	1045	44500.0000000	113BUREC	CRSPRSRF	
WHIS0084	01092	ZINC, TOTAL (UG/L AS ZN)	811120	0900	25700.0000000	113BUREC	CRSPRSRF	
WHIS0084	01092	ZINC, TOTAL (UG/L AS ZN)	820607	0900	27300.0000000	113BUREC	CRSPRSRF	

Water Quality Observations
Outside STORET Edit Criteria for WHIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
WHIS0084	01092	ZINC, TOTAL (UG/L AS ZN)	820614	0900	30400.0000000	113BUREC	CRSPRSRF	
WHIS0084	01092	ZINC, TOTAL (UG/L AS ZN)	851115	1340	25350.0000000	113BUREC	CRSPRSRF	
WHIS0084	01092	ZINC, TOTAL (UG/L AS ZN)	890828	1007	27400.0000000	113BUREC	CRSPRSRF	
WHIS0084	01092	ZINC, TOTAL (UG/L AS ZN)	890905	0825	56500.0000000	113BUREC	CRSPRSRF	
WHIS0084	01092	ZINC, TOTAL (UG/L AS ZN)	890911	0816	56000.0000000	113BUREC	CRSPRSRF	
WHIS0084	01092	ZINC, TOTAL (UG/L AS ZN)	891120	0832	29200.0000000	113BUREC	CRSPRSRF	
WHIS0084	01092	ZINC, TOTAL (UG/L AS ZN)	891127	1015	26000.0000000	113BUREC	CRSPRSRF	
WHIS0084	01092	ZINC, TOTAL (UG/L AS ZN)	900515	0848	26400.0000000	113BUREC	CRSPRSRF	
WHIS0084	01092	ZINC, TOTAL (UG/L AS ZN)	900807	0748	41300.0000000	113BUREC	CRSPRSRF	
WHIS0084	01092	ZINC, TOTAL (UG/L AS ZN)	900814	0755	74600.0000000	113BUREC	CRSPRSRF	
WHIS0084	01092	ZINC, TOTAL (UG/L AS ZN)	900821	0936	65000.0000000	113BUREC	CRSPRSRF	
WHIS0084	01092	ZINC, TOTAL (UG/L AS ZN)	900830	1214	60300.0000000	113BUREC	CRSPRSRF	
WHIS0084	01092	ZINC, TOTAL (UG/L AS ZN)	900905	1226	63000.0000000	113BUREC	CRSPRSRF	
WHIS0084	01092	ZINC, TOTAL (UG/L AS ZN)	900910	1215	61000.0000000	113BUREC	CRSPRSRF	
WHIS0084	01092	ZINC, TOTAL (UG/L AS ZN)	900917	1250	58000.0000000	113BUREC	CRSPRSRF	
WHIS0084	01092	ZINC, TOTAL (UG/L AS ZN)	900924	1223	59000.0000000	113BUREC	CRSPRSRF	
WHIS0084	01092	ZINC, TOTAL (UG/L AS ZN)	901001	1221	55000.0000000	113BUREC	CRSPRSRF	
WHIS0084	01092	ZINC, TOTAL (UG/L AS ZN)	901010	1236	59000.0000000	113BUREC	CRSPRSRF	
WHIS0084	01092	ZINC, TOTAL (UG/L AS ZN)	901017	1220	50000.0000000	113BUREC	CRSPRSRF	
WHIS0084	01092	ZINC, TOTAL (UG/L AS ZN)	901022	1210	56000.0000000	113BUREC	CRSPRSRF	
WHIS0084	01092	ZINC, TOTAL (UG/L AS ZN)	901105	1229	48000.0000000	113BUREC	CRSPRSRF	
WHIS0084	01092	ZINC, TOTAL (UG/L AS ZN)	901110	0835	54000.0000000	113BUREC	CRSPRSRF	
WHIS0084	01092	ZINC, TOTAL (UG/L AS ZN)	920722	0805	25280.0000000	113BUREC	CRSPRSRF	
WHIS0084	01092	ZINC, TOTAL (UG/L AS ZN)	920805	0805	25950.0000000	113BUREC	CRSPRSRF	
WHIS0084	01092	ZINC, TOTAL (UG/L AS ZN)	930818	0810	29250.0000000	113BUREC	CRSPRSRF	
WHIS0084	01092	ZINC, TOTAL (UG/L AS ZN)	930826	0900	30520.0000000	113BUREC	CRSPRSRF	
WHIS0084	01092	ZINC, TOTAL (UG/L AS ZN)	930901	0815	32930.0000000	113BUREC	CRSPRSRF	
WHIS0084	01092	ZINC, TOTAL (UG/L AS ZN)	930930	1030	57700.0000000	113BUREC	CRSPRSRF	
WHIS0084	01092	ZINC, TOTAL (UG/L AS ZN)	931101	1400	55560.0000000	113BUREC	CRSPRSRF	
WHIS0084	01092	ZINC, TOTAL (UG/L AS ZN)	931104	1015	59120.0000000	113BUREC	CRSPRSRF	
WHIS0084	01092	ZINC, TOTAL (UG/L AS ZN)	931108	0830	57100.0000000	113BUREC	CRSPRSRF	
WHIS0084	01092	ZINC, TOTAL (UG/L AS ZN)	931112	0900	57400.0000000	113BUREC	CRSPRSRF	
WHIS0084	01092	ZINC, TOTAL (UG/L AS ZN)	931115	0950	59400.0000000	113BUREC	CRSPRSRF	
WHIS0084	01092	ZINC, TOTAL (UG/L AS ZN)	931118	0850	55350.0000000	113BUREC	CRSPRSRF	
WHIS0084	01092	ZINC, TOTAL (UG/L AS ZN)	931123	0820	56250.0000000	113BUREC	CRSPRSRF	
WHIS0084	01092	ZINC, TOTAL (UG/L AS ZN)	931201	0920	50360.0000000	113BUREC	CRSPRSRF	
WHIS0084	01092	ZINC, TOTAL (UG/L AS ZN)	931207	0850	45830.0000000	113BUREC	CRSPRSRF	
WHIS0087	39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	860403		100.0000000	21CAL-3G	32N/06W-18ES1 M	
WHIS0097	00927	MAGNESIUM, TOTAL (MG/L AS MG)	840522		19400.0000000	11TOX09	IRONMT-78	
WHIS0097	00927	MAGNESIUM, TOTAL (MG/L AS MG)	840605		20200.0000000	11TOX09	IRONMT-78	
WHIS0097	00929	SODIUM, TOTAL (MG/L AS NA)	840522		5540.0000000	11TOX09	IRONMT-78	

Water Quality Observations
Outside STORET Edit Criteria for WHIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
WHIS0097	00929	SODIUM, TOTAL (MG/L AS NA)	840605		5350.0000000	11TOX09	IRONMT-78	
WHIS0097	00937	POTASSIUM, TOTAL MG/L AS K)	840522		800.0000000	11TOX09	IRONMT-78	
WHIS0097	00937	POTASSIUM, TOTAL MG/L AS K)	840605		1800.0000000	11TOX09	IRONMT-78	
WHIS0097	01040	COPPER, DISSOLVED (UG/L AS CU)	840201		2270.0000000	11TOX09	IRONMT-78	
WHIS0097	01040	COPPER, DISSOLVED (UG/L AS CU)	840628		2360.0000000	11TOX09	IRONMT-78	
WHIS0097	01045	IRON, TOTAL (UG/L AS FE)	840117		100000.0000000	11TOX09	IRONMT-78	
WHIS0097	01045	IRON, TOTAL (UG/L AS FE)	840201		146000.0000000	11TOX09	IRONMT-78	
WHIS0097	01045	IRON, TOTAL (UG/L AS FE)	840215		89300.0000000	11TOX09	IRONMT-78	
WHIS0097	01045	IRON, TOTAL (UG/L AS FE)	840229		88300.0000000	11TOX09	IRONMT-78	
WHIS0097	01045	IRON, TOTAL (UG/L AS FE)	840314		96600.0000000	11TOX09	IRONMT-78	
WHIS0097	01045	IRON, TOTAL (UG/L AS FE)	840410		67000.0000000	11TOX09	IRONMT-78	
WHIS0097	01045	IRON, TOTAL (UG/L AS FE)	840425		110000.0000000	11TOX09	IRONMT-78	
WHIS0097	01045	IRON, TOTAL (UG/L AS FE)	840508		112000.0000000	11TOX09	IRONMT-78	
WHIS0097	01045	IRON, TOTAL (UG/L AS FE)	840522		90300.0000000	11TOX09	IRONMT-78	
WHIS0097	01045	IRON, TOTAL (UG/L AS FE)	840605		120000.0000000	11TOX09	IRONMT-78	
WHIS0097	01045	IRON, TOTAL (UG/L AS FE)	840628		152000.0000000	11TOX09	IRONMT-78	
WHIS0097	01105	ALUMINUM, TOTAL (UG/L AS AL)	840522		23900.0000000	11TOX09	IRONMT-78	
WHIS0097	01105	ALUMINUM, TOTAL (UG/L AS AL)	840605		29300.0000000	11TOX09	IRONMT-78	
WHIS0102	00927	MAGNESIUM, TOTAL (MG/L AS MG)	840522		24600.0000000	11TOX09	IRONMT-75	
WHIS0102	00927	MAGNESIUM, TOTAL (MG/L AS MG)	840605		27800.0000000	11TOX09	IRONMT-75	
WHIS0102	00929	SODIUM, TOTAL (MG/L AS NA)	840522		5210.0000000	11TOX09	IRONMT-75	
WHIS0102	00929	SODIUM, TOTAL (MG/L AS NA)	840605		5865.0000000	11TOX09	IRONMT-75	
WHIS0102	00937	POTASSIUM, TOTAL MG/L AS K)	840522		1680.0000000	11TOX09	IRONMT-75	
WHIS0102	00937	POTASSIUM, TOTAL MG/L AS K)	840605		2610.0000000	11TOX09	IRONMT-75	
WHIS0102	01027	CADMIUM, TOTAL (UG/L AS CD)	840424		520.0000000	11TOX09	IRONMT-75	
WHIS0102	01040	COPPER, DISSOLVED (UG/L AS CU)	840104		2650.0000000	11TOX09	IRONMT-75	
WHIS0102	01040	COPPER, DISSOLVED (UG/L AS CU)	840117		2300.0000000	11TOX09	IRONMT-75	
WHIS0102	01040	COPPER, DISSOLVED (UG/L AS CU)	840124		2600.0000000	11TOX09	IRONMT-75	
WHIS0102	01040	COPPER, DISSOLVED (UG/L AS CU)	840201		2710.0000000	11TOX09	IRONMT-75	
WHIS0102	01040	COPPER, DISSOLVED (UG/L AS CU)	840208		2875.0000000	11TOX09	IRONMT-75	
WHIS0102	01040	COPPER, DISSOLVED (UG/L AS CU)	840222		2870.0000000	11TOX09	IRONMT-75	
WHIS0102	01040	COPPER, DISSOLVED (UG/L AS CU)	840229		2130.0000000	11TOX09	IRONMT-75	
WHIS0102	01040	COPPER, DISSOLVED (UG/L AS CU)	840307		2320.0000000	11TOX09	IRONMT-75	
WHIS0102	01040	COPPER, DISSOLVED (UG/L AS CU)	840508		2230.0000000	11TOX09	IRONMT-75	
WHIS0102	01042	COPPER, TOTAL (UG/L AS CU)	840424		17000.0000000	11TOX09	IRONMT-75	
WHIS0102	01045	IRON, TOTAL (UG/L AS FE)	840104		88000.0000000	11TOX09	IRONMT-75	
WHIS0102	01045	IRON, TOTAL (UG/L AS FE)	840110		137500.0000000	11TOX09	IRONMT-75	
WHIS0102	01045	IRON, TOTAL (UG/L AS FE)	840117		145000.0000000	11TOX09	IRONMT-75	
WHIS0102	01045	IRON, TOTAL (UG/L AS FE)	840124		156500.0000000	11TOX09	IRONMT-75	
WHIS0102	01045	IRON, TOTAL (UG/L AS FE)	840201		196000.0000000	11TOX09	IRONMT-75	
WHIS0102	01045	IRON, TOTAL (UG/L AS FE)	840208		193500.0000000	11TOX09	IRONMT-75	

Water Quality Observations
Outside STORET Edit Criteria for WHIS

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NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
WHIS0102	01045	IRON, TOTAL (UG/L AS FE)	840215		74500.0000000	11TOX09	IRONMT-75	
WHIS0102	01045	IRON, TOTAL (UG/L AS FE)	840222		195000.0000000	11TOX09	IRONMT-75	
WHIS0102	01045	IRON, TOTAL (UG/L AS FE)	840229		121000.0000000	11TOX09	IRONMT-75	
WHIS0102	01045	IRON, TOTAL (UG/L AS FE)	840307		133500.0000000	11TOX09	IRONMT-75	
WHIS0102	01045	IRON, TOTAL (UG/L AS FE)	840327		104000.0000000	11TOX09	IRONMT-75	
WHIS0102	01045	IRON, TOTAL (UG/L AS FE)	840403		135000.0000000	11TOX09	IRONMT-75	
WHIS0102	01045	IRON, TOTAL (UG/L AS FE)	840417		163500.0000000	11TOX09	IRONMT-75	
WHIS0102	01045	IRON, TOTAL (UG/L AS FE)	840424		481000.0000000	11TOX09	IRONMT-75	
WHIS0102	01045	IRON, TOTAL (UG/L AS FE)	840502		120000.0000000	11TOX09	IRONMT-75	
WHIS0102	01045	IRON, TOTAL (UG/L AS FE)	840508		162000.0000000	11TOX09	IRONMT-75	
WHIS0102	01045	IRON, TOTAL (UG/L AS FE)	840522		197000.0000000	11TOX09	IRONMT-75	
WHIS0102	01045	IRON, TOTAL (UG/L AS FE)	840605		201000.0000000	11TOX09	IRONMT-75	
WHIS0102	01092	ZINC, TOTAL (UG/L AS ZN)	840411		91500.0000000	11TOX09	IRONMT-75	
WHIS0102	01092	ZINC, TOTAL (UG/L AS ZN)	840424		69000.0000000	11TOX09	IRONMT-75	
WHIS0102	01105	ALUMINUM, TOTAL (UG/L AS AL)	840522		36100.0000000	11TOX09	IRONMT-75	
WHIS0102	01105	ALUMINUM, TOTAL (UG/L AS AL)	840605		41800.0000000	11TOX09	IRONMT-75	
WHIS0105	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	940816		0.0000000	11NPSWRD	WHIS_UCLIM_1	X
WHIS0119	00927	MAGNESIUM, TOTAL (MG/L AS MG)	840613		91200.0000000	11TOX09	IRONMT-616	
WHIS0119	00929	SODIUM, TOTAL (MG/L AS NA)	840613		5310.0000000	11TOX09	IRONMT-616	
WHIS0119	00937	POTASSIUM, TOTAL MG/L AS K)	840613		200.0000000	11TOX09	IRONMT-616	
WHIS0119	01042	COPPER, TOTAL (UG/L AS CU)	840613		12700.0000000	11TOX09	IRONMT-616	
WHIS0119	01045	IRON, TOTAL (UG/L AS FE)	840613		166000.0000000	11TOX09	IRONMT-616	
WHIS0119	01105	ALUMINUM, TOTAL (UG/L AS AL)	840613		128000.0000000	11TOX09	IRONMT-616	
WHIS0127	39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	850307		100.0000000	11NPSWRD	WHIS_CDHS_4	
WHIS0128	00927	MAGNESIUM, TOTAL (MG/L AS MG)	840613		93200.0000000	11TOX09	IRONMT-615	
WHIS0128	00929	SODIUM, TOTAL (MG/L AS NA)	840613		5250.0000000	11TOX09	IRONMT-615	
WHIS0128	00937	POTASSIUM, TOTAL MG/L AS K)	840613		200.0000000	11TOX09	IRONMT-615	
WHIS0128	01042	COPPER, TOTAL (UG/L AS CU)	840613		13000.0000000	11TOX09	IRONMT-615	
WHIS0128	01045	IRON, TOTAL (UG/L AS FE)	840613		176000.0000000	11TOX09	IRONMT-615	
WHIS0128	01105	ALUMINUM, TOTAL (UG/L AS AL)	840613		131000.0000000	11TOX09	IRONMT-615	
WHIS0141	00927	MAGNESIUM, TOTAL (MG/L AS MG)	840523		24600.0000000	11TOX09	IRONMT-74	
WHIS0141	00937	POTASSIUM, TOTAL MG/L AS K)	840523		1240.0000000	11TOX09	IRONMT-74	
WHIS0141	01045	IRON, TOTAL (UG/L AS FE)	840523		179000.0000000	11TOX09	IRONMT-74	
WHIS0141	01105	ALUMINUM, TOTAL (UG/L AS AL)	840523		36700.0000000	11TOX09	IRONMT-74	
WHIS0142	00927	MAGNESIUM, TOTAL (MG/L AS MG)	840523		78050.0000000	11TOX09	IRONMT-66	
WHIS0142	00927	MAGNESIUM, TOTAL (MG/L AS MG)	840530		92600.0000000	11TOX09	IRONMT-66	
WHIS0142	00927	MAGNESIUM, TOTAL (MG/L AS MG)	840613		89600.0000000	11TOX09	IRONMT-66	
WHIS0142	00929	SODIUM, TOTAL (MG/L AS NA)	840530		5430.0000000	11TOX09	IRONMT-66	
WHIS0142	00929	SODIUM, TOTAL (MG/L AS NA)	840613		5470.0000000	11TOX09	IRONMT-66	
WHIS0142	00937	POTASSIUM, TOTAL MG/L AS K)	840523		3630.0000000	11TOX09	IRONMT-66	
WHIS0142	00937	POTASSIUM, TOTAL MG/L AS K)	840530		2000.0000000	11TOX09	IRONMT-66	

Water Quality Observations
Outside STORET Edit Criteria for WHIS

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NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
WHIS0142	00937	POTASSIUM, TOTAL MG/L AS K)	840613		718.0000000	11TOX09	IRONMT-66	
WHIS0142	01042	COPPER, TOTAL (UG/L AS CU)	840523		9465.0000000	11TOX09	IRONMT-66	
WHIS0142	01042	COPPER, TOTAL (UG/L AS CU)	840530		10900.0000000	11TOX09	IRONMT-66	
WHIS0142	01042	COPPER, TOTAL (UG/L AS CU)	840613		12800.0000000	11TOX09	IRONMT-66	
WHIS0142	01045	IRON, TOTAL (UG/L AS FE)	840523		151500.0000000	11TOX09	IRONMT-66	
WHIS0142	01045	IRON, TOTAL (UG/L AS FE)	840530		174000.0000000	11TOX09	IRONMT-66	
WHIS0142	01045	IRON, TOTAL (UG/L AS FE)	840613		158000.0000000	11TOX09	IRONMT-66	
WHIS0142	01105	ALUMINUM, TOTAL (UG/L AS AL)	840523		109500.0000000	11TOX09	IRONMT-66	
WHIS0142	01105	ALUMINUM, TOTAL (UG/L AS AL)	840530		127000.0000000	11TOX09	IRONMT-66	
WHIS0142	01105	ALUMINUM, TOTAL (UG/L AS AL)	840613		125000.0000000	11TOX09	IRONMT-66	
WHIS0145	00927	MAGNESIUM, TOTAL (MG/L AS MG)	840523		15900.0000000	11TOX09	IRONMT-73	
WHIS0145	00937	POTASSIUM, TOTAL MG/L AS K)	840523		1820.0000000	11TOX09	IRONMT-73	
WHIS0145	01045	IRON, TOTAL (UG/L AS FE)	840523		219000.0000000	11TOX09	IRONMT-73	
WHIS0145	01105	ALUMINUM, TOTAL (UG/L AS AL)	840523		23700.0000000	11TOX09	IRONMT-73	
WHIS0146	00927	MAGNESIUM, TOTAL (MG/L AS MG)	840613		4850.0000000	11TOX09	IRONMT-614	
WHIS0146	00937	POTASSIUM, TOTAL MG/L AS K)	840613		200.0000000	11TOX09	IRONMT-614	
WHIS0147	00927	MAGNESIUM, TOTAL (MG/L AS MG)	840613		108000.0000000	11TOX09	IRONMT-613	
WHIS0147	00929	SODIUM, TOTAL (MG/L AS NA)	840613		5600.0000000	11TOX09	IRONMT-613	
WHIS0147	00937	POTASSIUM, TOTAL MG/L AS K)	840613		200.0000000	11TOX09	IRONMT-613	
WHIS0147	01042	COPPER, TOTAL (UG/L AS CU)	840613		15300.0000000	11TOX09	IRONMT-613	
WHIS0147	01045	IRON, TOTAL (UG/L AS FE)	840613		215000.0000000	11TOX09	IRONMT-613	
WHIS0147	01105	ALUMINUM, TOTAL (UG/L AS AL)	840613		154000.0000000	11TOX09	IRONMT-613	
WHIS0150	00927	MAGNESIUM, TOTAL (MG/L AS MG)	840523		59300.0000000	11TOX09	IRONMT-56	
WHIS0150	00929	SODIUM, TOTAL (MG/L AS NA)	840523		10400.0000000	11TOX09	IRONMT-56	
WHIS0150	00937	POTASSIUM, TOTAL MG/L AS K)	840523		8490.0000000	11TOX09	IRONMT-56	
WHIS0150	00945	SULFATE, TOTAL (MG/L AS SO4)	840523		3460.0000000	11TOX09	IRONMT-56	
WHIS0150	01027	CADMIUM, TOTAL (UG/L AS CD)	840523		650.0000000	11TOX09	IRONMT-56	
WHIS0150	01045	IRON, TOTAL (UG/L AS FE)	840523		898000.0000000	11TOX09	IRONMT-56	
WHIS0150	01092	ZINC, TOTAL (UG/L AS ZN)	840523		90300.0000000	11TOX09	IRONMT-56	
WHIS0150	01105	ALUMINUM, TOTAL (UG/L AS AL)	840523		90900.0000000	11TOX09	IRONMT-56	
WHIS0156	00927	MAGNESIUM, TOTAL (MG/L AS MG)	840613		119000.0000000	11TOX09	IRONMT-612	
WHIS0156	00929	SODIUM, TOTAL (MG/L AS NA)	840613		5510.0000000	11TOX09	IRONMT-612	
WHIS0156	00937	POTASSIUM, TOTAL MG/L AS K)	840613		300.0000000	11TOX09	IRONMT-612	
WHIS0156	01042	COPPER, TOTAL (UG/L AS CU)	840613		17100.0000000	11TOX09	IRONMT-612	
WHIS0156	01045	IRON, TOTAL (UG/L AS FE)	840613		271000.0000000	11TOX09	IRONMT-612	
WHIS0156	01105	ALUMINUM, TOTAL (UG/L AS AL)	840613		174000.0000000	11TOX09	IRONMT-612	
WHIS0160	00927	MAGNESIUM, TOTAL (MG/L AS MG)	840613		125000.0000000	11TOX09	IRONMT-611	
WHIS0160	00929	SODIUM, TOTAL (MG/L AS NA)	840613		5540.0000000	11TOX09	IRONMT-611	
WHIS0160	00937	POTASSIUM, TOTAL MG/L AS K)	840613		200.0000000	11TOX09	IRONMT-611	
WHIS0160	01042	COPPER, TOTAL (UG/L AS CU)	840613		17900.0000000	11TOX09	IRONMT-611	
WHIS0160	01045	IRON, TOTAL (UG/L AS FE)	840613		312000.0000000	11TOX09	IRONMT-611	

Water Quality Observations
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WHIS0160	01105	ALUMINUM, TOTAL (UG/L AS AL)	840613		182000.0000000	11TOX09	IRONMT-611	
WHIS0161	00927	MAGNESIUM, TOTAL (MG/L AS MG)	840613		130000.0000000	11TOX09	IRONMT-610	
WHIS0161	00929	SODIUM, TOTAL (MG/L AS NA)	840613		5480.0000000	11TOX09	IRONMT-610	
WHIS0161	00937	POTASSIUM, TOTAL MG/L AS K)	840613		4100.0000000	11TOX09	IRONMT-610	
WHIS0161	01042	COPPER, TOTAL (UG/L AS CU)	840613		18600.0000000	11TOX09	IRONMT-610	
WHIS0161	01045	IRON, TOTAL (UG/L AS FE)	840613		336000.0000000	11TOX09	IRONMT-610	
WHIS0161	01055	MANGANESE, TOTAL (UG/L AS MN)	840613		5010.0000000	11TOX09	IRONMT-610	
WHIS0161	01105	ALUMINUM, TOTAL (UG/L AS AL)	840613		190000.0000000	11TOX09	IRONMT-610	
WHIS0163	00927	MAGNESIUM, TOTAL (MG/L AS MG)	840522		2520.0000000	11TOX09	IRONMT-70	
WHIS0163	00927	MAGNESIUM, TOTAL (MG/L AS MG)	840605		2620.0000000	11TOX09	IRONMT-70	
WHIS0163	00937	POTASSIUM, TOTAL MG/L AS K)	840522		200.0000000	11TOX09	IRONMT-70	
WHIS0163	00937	POTASSIUM, TOTAL MG/L AS K)	840605		435.0000000	11TOX09	IRONMT-70	
WHIS0166	00927	MAGNESIUM, TOTAL (MG/L AS MG)	840523		67800.0000000	11TOX09	IRONMT-5	
WHIS0166	00929	SODIUM, TOTAL (MG/L AS NA)	840523		11500.0000000	11TOX09	IRONMT-5	
WHIS0166	00937	POTASSIUM, TOTAL MG/L AS K)	840523		9310.0000000	11TOX09	IRONMT-5	
WHIS0166	00945	SULFATE, TOTAL (MG/L AS SO4)	840523		4840.0000000	11TOX09	IRONMT-5	
WHIS0166	01027	CADMIUM, TOTAL (UG/L AS CD)	840523		690.0000000	11TOX09	IRONMT-5	
WHIS0166	01045	IRON, TOTAL (UG/L AS FE)	840523		1040000.0000000	11TOX09	IRONMT-5	
WHIS0166	01092	ZINC, TOTAL (UG/L AS ZN)	840523		105000.0000000	11TOX09	IRONMT-5	
WHIS0166	01105	ALUMINUM, TOTAL (UG/L AS AL)	840523		113000.0000000	11TOX09	IRONMT-5	
WHIS0167	00927	MAGNESIUM, TOTAL (MG/L AS MG)	840530		2760.0000000	11TOX09	IRONMT-32	
WHIS0167	00937	POTASSIUM, TOTAL MG/L AS K)	840530		200.0000000	11TOX09	IRONMT-32	
WHIS0168	00927	MAGNESIUM, TOTAL (MG/L AS MG)	840530		7160.0000000	11TOX09	IRONMT-67	
WHIS0168	00937	POTASSIUM, TOTAL MG/L AS K)	840530		200.0000000	11TOX09	IRONMT-67	
WHIS0168	01105	ALUMINUM, TOTAL (UG/L AS AL)	840530		20700.0000000	11TOX09	IRONMT-67	
WHIS0169	00927	MAGNESIUM, TOTAL (MG/L AS MG)	840530		204000.0000000	11TOX09	IRONMT-33	
WHIS0169	00927	MAGNESIUM, TOTAL (MG/L AS MG)	840613		196000.0000000	11TOX09	IRONMT-33	
WHIS0169	00929	SODIUM, TOTAL (MG/L AS NA)	840530		5260.0000000	11TOX09	IRONMT-33	
WHIS0169	00929	SODIUM, TOTAL (MG/L AS NA)	840613		6135.0000000	11TOX09	IRONMT-33	
WHIS0169	00937	POTASSIUM, TOTAL MG/L AS K)	840530		20000.0000000	11TOX09	IRONMT-33	
WHIS0169	00937	POTASSIUM, TOTAL MG/L AS K)	840613		2000.0000000	11TOX09	IRONMT-33	
WHIS0169	00945	SULFATE, TOTAL (MG/L AS SO4)	840530		4280.0000000	11TOX09	IRONMT-33	
WHIS0169	00945	SULFATE, TOTAL (MG/L AS SO4)	840613		4825.0000000	11TOX09	IRONMT-33	
WHIS0169	01042	COPPER, TOTAL (UG/L AS CU)	840530		13500.0000000	11TOX09	IRONMT-33	
WHIS0169	01042	COPPER, TOTAL (UG/L AS CU)	840613		20450.0000000	11TOX09	IRONMT-33	
WHIS0169	01045	IRON, TOTAL (UG/L AS FE)	840530		944000.0000000	11TOX09	IRONMT-33	
WHIS0169	01045	IRON, TOTAL (UG/L AS FE)	840613		964500.0000000	11TOX09	IRONMT-33	
WHIS0169	01055	MANGANESE, TOTAL (UG/L AS MN)	840530		8300.0000000	11TOX09	IRONMT-33	
WHIS0169	01055	MANGANESE, TOTAL (UG/L AS MN)	840613		8295.0000000	11TOX09	IRONMT-33	
WHIS0169	01092	ZINC, TOTAL (UG/L AS ZN)	840530		31000.0000000	11TOX09	IRONMT-33	
WHIS0169	01092	ZINC, TOTAL (UG/L AS ZN)	840613		32500.0000000	11TOX09	IRONMT-33	

Water Quality Observations
Outside STORET Edit Criteria for WHIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
WHIS0169	01105	ALUMINUM, TOTAL (UG/L AS AL)	840530		313000.0000000	11TOX09	IRONMT-33	
WHIS0169	01105	ALUMINUM, TOTAL (UG/L AS AL)	840613		323500.0000000	11TOX09	IRONMT-33	
WHIS0171	00927	MAGNESIUM, TOTAL (MG/L AS MG)	840523		14300.0000000	11TOX09	IRONMT-4	
WHIS0171	00937	POTASSIUM, TOTAL MG/L AS K)	840523		200.0000000	11TOX09	IRONMT-4	
WHIS0175	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	790714	1445	37.2000000	11NPSWRD	WHIS_NPS_11	
WHIS0176	00927	MAGNESIUM, TOTAL (MG/L AS MG)	840530		2910.0000000	11TOX09	IRONMT-61	
WHIS0176	00937	POTASSIUM, TOTAL MG/L AS K)	840530		200.0000000	11TOX09	IRONMT-61	
WHIS0187	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	831230		105000.0000000	11TOX09	IRONMT-1A	
WHIS0187	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	840104		188600.0000000	11TOX09	IRONMT-1A	
WHIS0187	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	840110		146000.0000000	11TOX09	IRONMT-1A	
WHIS0187	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	840117		156000.0000000	11TOX09	IRONMT-1A	
WHIS0187	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	840124		78000.0000000	11TOX09	IRONMT-1A	
WHIS0187	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	840201		200000.0000000	11TOX09	IRONMT-1A	
WHIS0187	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	840215		202000.0000000	11TOX09	IRONMT-1A	
WHIS0187	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	840222		202260.0000000	11TOX09	IRONMT-1A	
WHIS0187	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	840229		222472.0000000	11TOX09	IRONMT-1A	
WHIS0187	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	840307		205000.0000000	11TOX09	IRONMT-1A	
WHIS0187	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	840314		250000.0000000	11TOX09	IRONMT-1A	
WHIS0187	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	840320		150421.0000000	11TOX09	IRONMT-1A	
WHIS0187	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	840327		192211.0000000	11TOX09	IRONMT-1A	
WHIS0187	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	840403		217125.0000000	11TOX09	IRONMT-1A	
WHIS0187	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	840417		223810.0000000	11TOX09	IRONMT-1A	
WHIS0187	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	840424		230260.0000000	11TOX09	IRONMT-1A	
WHIS0187	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	840502		227368.0000000	11TOX09	IRONMT-1A	
WHIS0187	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	840508		175840.0000000	11TOX09	IRONMT-1A	
WHIS0187	00400	PH (STANDARD UNITS)	840110		0.5500000	11TOX09	IRONMT-1A	
WHIS0187	00400	PH (STANDARD UNITS)	840117		0.8500000	11TOX09	IRONMT-1A	
WHIS0187	00400	PH (STANDARD UNITS)	840124		0.8000000	11TOX09	IRONMT-1A	
WHIS0187	00400	PH (STANDARD UNITS)	840201		0.6500000	11TOX09	IRONMT-1A	
WHIS0187	00400	PH (STANDARD UNITS)	840215		0.7500000	11TOX09	IRONMT-1A	
WHIS0187	00400	PH (STANDARD UNITS)	840229		0.7200000	11TOX09	IRONMT-1A	
WHIS0187	00400	PH (STANDARD UNITS)	840307		0.6000000	11TOX09	IRONMT-1A	
WHIS0187	00400	PH (STANDARD UNITS)	840314		0.8500000	11TOX09	IRONMT-1A	
WHIS0187	00400	PH (STANDARD UNITS)	840320		0.7500000	11TOX09	IRONMT-1A	
WHIS0187	00400	PH (STANDARD UNITS)	840327		0.8000000	11TOX09	IRONMT-1A	
WHIS0187	00400	PH (STANDARD UNITS)	840403		0.7500000	11TOX09	IRONMT-1A	
WHIS0187	00400	PH (STANDARD UNITS)	840417		0.8000000	11TOX09	IRONMT-1A	
WHIS0187	00927	MAGNESIUM, TOTAL (MG/L AS MG)	831230		309000.0000000	11TOX09	IRONMT-1A	
WHIS0187	00927	MAGNESIUM, TOTAL (MG/L AS MG)	840104		440500.0000000	11TOX09	IRONMT-1A	
WHIS0187	00927	MAGNESIUM, TOTAL (MG/L AS MG)	840110		437000.0000000	11TOX09	IRONMT-1A	
WHIS0187	00927	MAGNESIUM, TOTAL (MG/L AS MG)	840117		525000.0000000	11TOX09	IRONMT-1A	

Water Quality Observations
Outside STORET Edit Criteria for WHIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
WHIS0187	00927	MAGNESIUM, TOTAL (MG/L AS MG)	840124		660000.0000000	11TOX09	IRONMT-1A	
WHIS0187	00927	MAGNESIUM, TOTAL (MG/L AS MG)	840201		682500.0000000	11TOX09	IRONMT-1A	
WHIS0187	00927	MAGNESIUM, TOTAL (MG/L AS MG)	840215		670000.0000000	11TOX09	IRONMT-1A	
WHIS0187	00927	MAGNESIUM, TOTAL (MG/L AS MG)	840222		730000.0000000	11TOX09	IRONMT-1A	
WHIS0187	00927	MAGNESIUM, TOTAL (MG/L AS MG)	840229		620000.0000000	11TOX09	IRONMT-1A	
WHIS0187	00927	MAGNESIUM, TOTAL (MG/L AS MG)	840307		555000.0000000	11TOX09	IRONMT-1A	
WHIS0187	00927	MAGNESIUM, TOTAL (MG/L AS MG)	840314		567500.0000000	11TOX09	IRONMT-1A	
WHIS0187	00927	MAGNESIUM, TOTAL (MG/L AS MG)	840320		595000.0000000	11TOX09	IRONMT-1A	
WHIS0187	00927	MAGNESIUM, TOTAL (MG/L AS MG)	840327		560000.0000000	11TOX09	IRONMT-1A	
WHIS0187	00927	MAGNESIUM, TOTAL (MG/L AS MG)	840403		595000.0000000	11TOX09	IRONMT-1A	
WHIS0187	00927	MAGNESIUM, TOTAL (MG/L AS MG)	840417		540000.0000000	11TOX09	IRONMT-1A	
WHIS0187	00927	MAGNESIUM, TOTAL (MG/L AS MG)	840424		605000.0000000	11TOX09	IRONMT-1A	
WHIS0187	00927	MAGNESIUM, TOTAL (MG/L AS MG)	840502		615000.0000000	11TOX09	IRONMT-1A	
WHIS0187	00927	MAGNESIUM, TOTAL (MG/L AS MG)	840508		685000.0000000	11TOX09	IRONMT-1A	
WHIS0187	00929	SODIUM, TOTAL (MG/L AS NA)	831230		57700.0000000	11TOX09	IRONMT-1A	
WHIS0187	00929	SODIUM, TOTAL (MG/L AS NA)	840104		91500.0000000	11TOX09	IRONMT-1A	
WHIS0187	00929	SODIUM, TOTAL (MG/L AS NA)	840110		98500.0000000	11TOX09	IRONMT-1A	
WHIS0187	00929	SODIUM, TOTAL (MG/L AS NA)	840117		115000.0000000	11TOX09	IRONMT-1A	
WHIS0187	00929	SODIUM, TOTAL (MG/L AS NA)	840124		135000.0000000	11TOX09	IRONMT-1A	
WHIS0187	00929	SODIUM, TOTAL (MG/L AS NA)	840201		135000.0000000	11TOX09	IRONMT-1A	
WHIS0187	00929	SODIUM, TOTAL (MG/L AS NA)	840215		130000.0000000	11TOX09	IRONMT-1A	
WHIS0187	00929	SODIUM, TOTAL (MG/L AS NA)	840222		140000.0000000	11TOX09	IRONMT-1A	
WHIS0187	00929	SODIUM, TOTAL (MG/L AS NA)	840229		120000.0000000	11TOX09	IRONMT-1A	
WHIS0187	00929	SODIUM, TOTAL (MG/L AS NA)	840307		100000.0000000	11TOX09	IRONMT-1A	
WHIS0187	00929	SODIUM, TOTAL (MG/L AS NA)	840314		102500.0000000	11TOX09	IRONMT-1A	
WHIS0187	00929	SODIUM, TOTAL (MG/L AS NA)	840320		110000.0000000	11TOX09	IRONMT-1A	
WHIS0187	00929	SODIUM, TOTAL (MG/L AS NA)	840327		104950.0000000	11TOX09	IRONMT-1A	
WHIS0187	00929	SODIUM, TOTAL (MG/L AS NA)	840403		115000.0000000	11TOX09	IRONMT-1A	
WHIS0187	00929	SODIUM, TOTAL (MG/L AS NA)	840417		105000.0000000	11TOX09	IRONMT-1A	
WHIS0187	00929	SODIUM, TOTAL (MG/L AS NA)	840424		115000.0000000	11TOX09	IRONMT-1A	
WHIS0187	00929	SODIUM, TOTAL (MG/L AS NA)	840502		115000.0000000	11TOX09	IRONMT-1A	
WHIS0187	00929	SODIUM, TOTAL (MG/L AS NA)	840508		115500.0000000	11TOX09	IRONMT-1A	
WHIS0187	00937	POTASSIUM, TOTAL MG/L AS K)	831230		64000.0000000	11TOX09	IRONMT-1A	
WHIS0187	00937	POTASSIUM, TOTAL MG/L AS K)	840104		150000.0000000	11TOX09	IRONMT-1A	
WHIS0187	00937	POTASSIUM, TOTAL MG/L AS K)	840110		122000.0000000	11TOX09	IRONMT-1A	
WHIS0187	00937	POTASSIUM, TOTAL MG/L AS K)	840117		120000.0000000	11TOX09	IRONMT-1A	
WHIS0187	00937	POTASSIUM, TOTAL MG/L AS K)	840124		180000.0000000	11TOX09	IRONMT-1A	
WHIS0187	00937	POTASSIUM, TOTAL MG/L AS K)	840201		190000.0000000	11TOX09	IRONMT-1A	
WHIS0187	00937	POTASSIUM, TOTAL MG/L AS K)	840215		190000.0000000	11TOX09	IRONMT-1A	
WHIS0187	00937	POTASSIUM, TOTAL MG/L AS K)	840222		200000.0000000	11TOX09	IRONMT-1A	
WHIS0187	00937	POTASSIUM, TOTAL MG/L AS K)	840229		190000.0000000	11TOX09	IRONMT-1A	

Water Quality Observations
Outside STORET Edit Criteria for WHIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
WHIS0187	00937	POTASSIUM, TOTAL MG/L AS K)	840307		160000.0000000	11TOX09	IRONMT-1A	
WHIS0187	00937	POTASSIUM, TOTAL MG/L AS K)	840314		130000.0000000	11TOX09	IRONMT-1A	
WHIS0187	00937	POTASSIUM, TOTAL MG/L AS K)	840320		160000.0000000	11TOX09	IRONMT-1A	
WHIS0187	00937	POTASSIUM, TOTAL MG/L AS K)	840327		130000.0000000	11TOX09	IRONMT-1A	
WHIS0187	00937	POTASSIUM, TOTAL MG/L AS K)	840403		140000.0000000	11TOX09	IRONMT-1A	
WHIS0187	00937	POTASSIUM, TOTAL MG/L AS K)	840417		140000.0000000	11TOX09	IRONMT-1A	
WHIS0187	00937	POTASSIUM, TOTAL MG/L AS K)	840424		140000.0000000	11TOX09	IRONMT-1A	
WHIS0187	00937	POTASSIUM, TOTAL MG/L AS K)	840502		180000.0000000	11TOX09	IRONMT-1A	
WHIS0187	00937	POTASSIUM, TOTAL MG/L AS K)	840508		164000.0000000	11TOX09	IRONMT-1A	
WHIS0187	00945	SULFATE, TOTAL (MG/L AS SO4)	831230		37600.0000000	11TOX09	IRONMT-1A	
WHIS0187	00945	SULFATE, TOTAL (MG/L AS SO4)	840104		46600.0000000	11TOX09	IRONMT-1A	
WHIS0187	00945	SULFATE, TOTAL (MG/L AS SO4)	840110		62400.0000000	11TOX09	IRONMT-1A	
WHIS0187	00945	SULFATE, TOTAL (MG/L AS SO4)	840117		70250.0000000	11TOX09	IRONMT-1A	
WHIS0187	00945	SULFATE, TOTAL (MG/L AS SO4)	840124		72000.0000000	11TOX09	IRONMT-1A	
WHIS0187	00945	SULFATE, TOTAL (MG/L AS SO4)	840201		68000.0000000	11TOX09	IRONMT-1A	
WHIS0187	00945	SULFATE, TOTAL (MG/L AS SO4)	840215		63900.0000000	11TOX09	IRONMT-1A	
WHIS0187	00945	SULFATE, TOTAL (MG/L AS SO4)	840222		56000.0000000	11TOX09	IRONMT-1A	
WHIS0187	00945	SULFATE, TOTAL (MG/L AS SO4)	840229		59800.0000000	11TOX09	IRONMT-1A	
WHIS0187	00945	SULFATE, TOTAL (MG/L AS SO4)	840307		58800.0000000	11TOX09	IRONMT-1A	
WHIS0187	00945	SULFATE, TOTAL (MG/L AS SO4)	840314		58400.0000000	11TOX09	IRONMT-1A	
WHIS0187	00945	SULFATE, TOTAL (MG/L AS SO4)	840320		60400.0000000	11TOX09	IRONMT-1A	
WHIS0187	00945	SULFATE, TOTAL (MG/L AS SO4)	840327		61200.0000000	11TOX09	IRONMT-1A	
WHIS0187	00945	SULFATE, TOTAL (MG/L AS SO4)	840403		64200.0000000	11TOX09	IRONMT-1A	
WHIS0187	00945	SULFATE, TOTAL (MG/L AS SO4)	840417		64400.0000000	11TOX09	IRONMT-1A	
WHIS0187	00945	SULFATE, TOTAL (MG/L AS SO4)	840424		55200.0000000	11TOX09	IRONMT-1A	
WHIS0187	00945	SULFATE, TOTAL (MG/L AS SO4)	840502		48600.0000000	11TOX09	IRONMT-1A	
WHIS0187	00945	SULFATE, TOTAL (MG/L AS SO4)	840508		63400.0000000	11TOX09	IRONMT-1A	
WHIS0187	01002	ARSENIC, TOTAL (UG/L AS AS)	831230		18000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01002	ARSENIC, TOTAL (UG/L AS AS)	840104		31500.0000000	11TOX09	IRONMT-1A	
WHIS0187	01002	ARSENIC, TOTAL (UG/L AS AS)	840110		33000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01002	ARSENIC, TOTAL (UG/L AS AS)	840117		38500.0000000	11TOX09	IRONMT-1A	
WHIS0187	01002	ARSENIC, TOTAL (UG/L AS AS)	840124		48000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01002	ARSENIC, TOTAL (UG/L AS AS)	840201		45500.0000000	11TOX09	IRONMT-1A	
WHIS0187	01002	ARSENIC, TOTAL (UG/L AS AS)	840215		38000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01002	ARSENIC, TOTAL (UG/L AS AS)	840222		46000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01002	ARSENIC, TOTAL (UG/L AS AS)	840229		42000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01002	ARSENIC, TOTAL (UG/L AS AS)	840307		13000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01002	ARSENIC, TOTAL (UG/L AS AS)	840314		30000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01002	ARSENIC, TOTAL (UG/L AS AS)	840320		30000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01002	ARSENIC, TOTAL (UG/L AS AS)	840327		28000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01002	ARSENIC, TOTAL (UG/L AS AS)	840403		37000.0000000	11TOX09	IRONMT-1A	

Water Quality Observations
Outside STORET Edit Criteria for WHIS

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NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
WHIS0187	01002	ARSENIC, TOTAL (UG/L AS AS)	840417		27000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01002	ARSENIC, TOTAL (UG/L AS AS)	840424		33500.0000000	11TOX09	IRONMT-1A	
WHIS0187	01002	ARSENIC, TOTAL (UG/L AS AS)	840502		28000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01002	ARSENIC, TOTAL (UG/L AS AS)	840508		39500.0000000	11TOX09	IRONMT-1A	
WHIS0187	01007	BARIUM, TOTAL (UG/L AS BA)	840117		10000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01007	BARIUM, TOTAL (UG/L AS BA)	840201		10000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01007	BARIUM, TOTAL (UG/L AS BA)	840222		10000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01007	BARIUM, TOTAL (UG/L AS BA)	840229		10000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01007	BARIUM, TOTAL (UG/L AS BA)	840307		10000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01007	BARIUM, TOTAL (UG/L AS BA)	840314		10000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01007	BARIUM, TOTAL (UG/L AS BA)	840320		10000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01007	BARIUM, TOTAL (UG/L AS BA)	840327		10000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01007	BARIUM, TOTAL (UG/L AS BA)	840417		10000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01007	BARIUM, TOTAL (UG/L AS BA)	840502		10000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01027	CADMIUM, TOTAL (UG/L AS CD)	831230		3500.0000000	11TOX09	IRONMT-1A	
WHIS0187	01027	CADMIUM, TOTAL (UG/L AS CD)	840104		8000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01027	CADMIUM, TOTAL (UG/L AS CD)	840110		7800.0000000	11TOX09	IRONMT-1A	
WHIS0187	01027	CADMIUM, TOTAL (UG/L AS CD)	840117		9000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01027	CADMIUM, TOTAL (UG/L AS CD)	840124		11000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01027	CADMIUM, TOTAL (UG/L AS CD)	840201		14500.0000000	11TOX09	IRONMT-1A	
WHIS0187	01027	CADMIUM, TOTAL (UG/L AS CD)	840215		11500.0000000	11TOX09	IRONMT-1A	
WHIS0187	01027	CADMIUM, TOTAL (UG/L AS CD)	840222		13000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01027	CADMIUM, TOTAL (UG/L AS CD)	840229		9450.0000000	11TOX09	IRONMT-1A	
WHIS0187	01027	CADMIUM, TOTAL (UG/L AS CD)	840307		9000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01027	CADMIUM, TOTAL (UG/L AS CD)	840314		10400.0000000	11TOX09	IRONMT-1A	
WHIS0187	01027	CADMIUM, TOTAL (UG/L AS CD)	840320		11000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01027	CADMIUM, TOTAL (UG/L AS CD)	840327		10500.0000000	11TOX09	IRONMT-1A	
WHIS0187	01027	CADMIUM, TOTAL (UG/L AS CD)	840403		9700.0000000	11TOX09	IRONMT-1A	
WHIS0187	01027	CADMIUM, TOTAL (UG/L AS CD)	840417		11000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01027	CADMIUM, TOTAL (UG/L AS CD)	840424		10700.0000000	11TOX09	IRONMT-1A	
WHIS0187	01027	CADMIUM, TOTAL (UG/L AS CD)	840502		12000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01027	CADMIUM, TOTAL (UG/L AS CD)	840508		12700.0000000	11TOX09	IRONMT-1A	
WHIS0187	01042	COPPER, TOTAL (UG/L AS CU)	831230		118000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01042	COPPER, TOTAL (UG/L AS CU)	840104		187500.0000000	11TOX09	IRONMT-1A	
WHIS0187	01042	COPPER, TOTAL (UG/L AS CU)	840110		210000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01042	COPPER, TOTAL (UG/L AS CU)	840117		227500.0000000	11TOX09	IRONMT-1A	
WHIS0187	01042	COPPER, TOTAL (UG/L AS CU)	840124		260000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01042	COPPER, TOTAL (UG/L AS CU)	840201		237000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01042	COPPER, TOTAL (UG/L AS CU)	840215		207000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01042	COPPER, TOTAL (UG/L AS CU)	840222		264000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01042	COPPER, TOTAL (UG/L AS CU)	840229		183000.0000000	11TOX09	IRONMT-1A	

Water Quality Observations
Outside STORET Edit Criteria for WHIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
WHIS0187	01042	COPPER, TOTAL (UG/L AS CU)	840307		144000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01042	COPPER, TOTAL (UG/L AS CU)	840314		142500.0000000	11TOX09	IRONMT-1A	
WHIS0187	01042	COPPER, TOTAL (UG/L AS CU)	840320		169000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01042	COPPER, TOTAL (UG/L AS CU)	840327		163000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01042	COPPER, TOTAL (UG/L AS CU)	840403		181000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01042	COPPER, TOTAL (UG/L AS CU)	840417		156000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01042	COPPER, TOTAL (UG/L AS CU)	840424		166000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01042	COPPER, TOTAL (UG/L AS CU)	840502		158000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01042	COPPER, TOTAL (UG/L AS CU)	840508		164500.0000000	11TOX09	IRONMT-1A	
WHIS0187	01045	IRON, TOTAL (UG/L AS FE)	831230		7340000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01045	IRON, TOTAL (UG/L AS FE)	840104		1011000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01045	IRON, TOTAL (UG/L AS FE)	840110		1090000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01045	IRON, TOTAL (UG/L AS FE)	840117		12200000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01045	IRON, TOTAL (UG/L AS FE)	840124		15100000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01045	IRON, TOTAL (UG/L AS FE)	840201		14950000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01045	IRON, TOTAL (UG/L AS FE)	840215		14200000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01045	IRON, TOTAL (UG/L AS FE)	840222		15700000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01045	IRON, TOTAL (UG/L AS FE)	840229		13650000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01045	IRON, TOTAL (UG/L AS FE)	840307		12300000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01045	IRON, TOTAL (UG/L AS FE)	840314		11750000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01045	IRON, TOTAL (UG/L AS FE)	840320		12700000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01045	IRON, TOTAL (UG/L AS FE)	840327		11500000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01045	IRON, TOTAL (UG/L AS FE)	840403		12600000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01045	IRON, TOTAL (UG/L AS FE)	840417		12300000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01045	IRON, TOTAL (UG/L AS FE)	840424		13150000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01045	IRON, TOTAL (UG/L AS FE)	840502		13400000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01045	IRON, TOTAL (UG/L AS FE)	840508		13900000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01051	LEAD, TOTAL (UG/L AS PB)	831230		1400.0000000	11TOX09	IRONMT-1A	
WHIS0187	01051	LEAD, TOTAL (UG/L AS PB)	840104		3250.0000000	11TOX09	IRONMT-1A	
WHIS0187	01051	LEAD, TOTAL (UG/L AS PB)	840110		1900.0000000	11TOX09	IRONMT-1A	
WHIS0187	01051	LEAD, TOTAL (UG/L AS PB)	840117		2950.0000000	11TOX09	IRONMT-1A	
WHIS0187	01051	LEAD, TOTAL (UG/L AS PB)	840124		4900.0000000	11TOX09	IRONMT-1A	
WHIS0187	01051	LEAD, TOTAL (UG/L AS PB)	840201		4100.0000000	11TOX09	IRONMT-1A	
WHIS0187	01051	LEAD, TOTAL (UG/L AS PB)	840215		3500.0000000	11TOX09	IRONMT-1A	
WHIS0187	01051	LEAD, TOTAL (UG/L AS PB)	840222		3400.0000000	11TOX09	IRONMT-1A	
WHIS0187	01051	LEAD, TOTAL (UG/L AS PB)	840229		4100.0000000	11TOX09	IRONMT-1A	
WHIS0187	01051	LEAD, TOTAL (UG/L AS PB)	840307		2500.0000000	11TOX09	IRONMT-1A	
WHIS0187	01051	LEAD, TOTAL (UG/L AS PB)	840314		2200.0000000	11TOX09	IRONMT-1A	
WHIS0187	01051	LEAD, TOTAL (UG/L AS PB)	840320		3200.0000000	11TOX09	IRONMT-1A	
WHIS0187	01051	LEAD, TOTAL (UG/L AS PB)	840327		3100.0000000	11TOX09	IRONMT-1A	
WHIS0187	01051	LEAD, TOTAL (UG/L AS PB)	840403		4300.0000000	11TOX09	IRONMT-1A	

Water Quality Observations
Outside STORET Edit Criteria for WHIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
WHIS0187	01051	LEAD, TOTAL (UG/L AS PB)	840417		2700.0000000	11TOX09	IRONMT-1A	
WHIS0187	01051	LEAD, TOTAL (UG/L AS PB)	840424		3500.0000000	11TOX09	IRONMT-1A	
WHIS0187	01051	LEAD, TOTAL (UG/L AS PB)	840502		3100.0000000	11TOX09	IRONMT-1A	
WHIS0187	01051	LEAD, TOTAL (UG/L AS PB)	840508		3100.0000000	11TOX09	IRONMT-1A	
WHIS0187	01055	MANGANESE, TOTAL (UG/L AS MN)	831230		7050.0000000	11TOX09	IRONMT-1A	
WHIS0187	01055	MANGANESE, TOTAL (UG/L AS MN)	840104		11400.0000000	11TOX09	IRONMT-1A	
WHIS0187	01055	MANGANESE, TOTAL (UG/L AS MN)	840110		10800.0000000	11TOX09	IRONMT-1A	
WHIS0187	01055	MANGANESE, TOTAL (UG/L AS MN)	840117		12750.0000000	11TOX09	IRONMT-1A	
WHIS0187	01055	MANGANESE, TOTAL (UG/L AS MN)	840124		15000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01055	MANGANESE, TOTAL (UG/L AS MN)	840201		15750.0000000	11TOX09	IRONMT-1A	
WHIS0187	01055	MANGANESE, TOTAL (UG/L AS MN)	840215		15000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01055	MANGANESE, TOTAL (UG/L AS MN)	840222		16500.0000000	11TOX09	IRONMT-1A	
WHIS0187	01055	MANGANESE, TOTAL (UG/L AS MN)	840229		13500.0000000	11TOX09	IRONMT-1A	
WHIS0187	01055	MANGANESE, TOTAL (UG/L AS MN)	840307		13500.0000000	11TOX09	IRONMT-1A	
WHIS0187	01055	MANGANESE, TOTAL (UG/L AS MN)	840314		13500.0000000	11TOX09	IRONMT-1A	
WHIS0187	01055	MANGANESE, TOTAL (UG/L AS MN)	840320		13500.0000000	11TOX09	IRONMT-1A	
WHIS0187	01055	MANGANESE, TOTAL (UG/L AS MN)	840327		12750.0000000	11TOX09	IRONMT-1A	
WHIS0187	01055	MANGANESE, TOTAL (UG/L AS MN)	840403		13500.0000000	11TOX09	IRONMT-1A	
WHIS0187	01055	MANGANESE, TOTAL (UG/L AS MN)	840417		13500.0000000	11TOX09	IRONMT-1A	
WHIS0187	01055	MANGANESE, TOTAL (UG/L AS MN)	840424		14250.0000000	11TOX09	IRONMT-1A	
WHIS0187	01055	MANGANESE, TOTAL (UG/L AS MN)	840502		13500.0000000	11TOX09	IRONMT-1A	
WHIS0187	01055	MANGANESE, TOTAL (UG/L AS MN)	840508		14400.0000000	11TOX09	IRONMT-1A	
WHIS0187	01067	NICKEL, TOTAL (UG/L AS NI)	840117		4000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01067	NICKEL, TOTAL (UG/L AS NI)	840124		4000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01067	NICKEL, TOTAL (UG/L AS NI)	840201		4000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01067	NICKEL, TOTAL (UG/L AS NI)	840215		4000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01067	NICKEL, TOTAL (UG/L AS NI)	840222		4000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01067	NICKEL, TOTAL (UG/L AS NI)	840229		4000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01067	NICKEL, TOTAL (UG/L AS NI)	840307		4000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01067	NICKEL, TOTAL (UG/L AS NI)	840314		4000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01067	NICKEL, TOTAL (UG/L AS NI)	840320		4000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01067	NICKEL, TOTAL (UG/L AS NI)	840327		4000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01067	NICKEL, TOTAL (UG/L AS NI)	840403		4000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01067	NICKEL, TOTAL (UG/L AS NI)	840417		4000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01067	NICKEL, TOTAL (UG/L AS NI)	840424		4000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01067	NICKEL, TOTAL (UG/L AS NI)	840502		4000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01092	ZINC, TOTAL (UG/L AS ZN)	831230		695000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01092	ZINC, TOTAL (UG/L AS ZN)	840104		1085000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01092	ZINC, TOTAL (UG/L AS ZN)	840110		1200000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01092	ZINC, TOTAL (UG/L AS ZN)	840117		1295000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01092	ZINC, TOTAL (UG/L AS ZN)	840124		1620000.0000000	11TOX09	IRONMT-1A	

Water Quality Observations
Outside STORET Edit Criteria for WHIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
WHIS0187	01092	ZINC, TOTAL (UG/L AS ZN)	840201		1650000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01092	ZINC, TOTAL (UG/L AS ZN)	840215		1555000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01092	ZINC, TOTAL (UG/L AS ZN)	840222		1820000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01092	ZINC, TOTAL (UG/L AS ZN)	840229		1500000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01092	ZINC, TOTAL (UG/L AS ZN)	840307		1320000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01092	ZINC, TOTAL (UG/L AS ZN)	840314		1345000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01092	ZINC, TOTAL (UG/L AS ZN)	840320		1390000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01092	ZINC, TOTAL (UG/L AS ZN)	840327		1460000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01092	ZINC, TOTAL (UG/L AS ZN)	840403		1510000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01092	ZINC, TOTAL (UG/L AS ZN)	840417		1430000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01092	ZINC, TOTAL (UG/L AS ZN)	840424		1595000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01092	ZINC, TOTAL (UG/L AS ZN)	840502		1490000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01092	ZINC, TOTAL (UG/L AS ZN)	840508		1585000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01105	ALUMINUM, TOTAL (UG/L AS AL)	831230		602000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01105	ALUMINUM, TOTAL (UG/L AS AL)	840104		851000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01105	ALUMINUM, TOTAL (UG/L AS AL)	840110		946000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01105	ALUMINUM, TOTAL (UG/L AS AL)	840117		1060000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01105	ALUMINUM, TOTAL (UG/L AS AL)	840124		1380000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01105	ALUMINUM, TOTAL (UG/L AS AL)	840201		1330000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01105	ALUMINUM, TOTAL (UG/L AS AL)	840215		1320000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01105	ALUMINUM, TOTAL (UG/L AS AL)	840222		1420000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01105	ALUMINUM, TOTAL (UG/L AS AL)	840229		1280000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01105	ALUMINUM, TOTAL (UG/L AS AL)	840307		1140000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01105	ALUMINUM, TOTAL (UG/L AS AL)	840314		1140000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01105	ALUMINUM, TOTAL (UG/L AS AL)	840320		1200000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01105	ALUMINUM, TOTAL (UG/L AS AL)	840327		1140000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01105	ALUMINUM, TOTAL (UG/L AS AL)	840403		1260000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01105	ALUMINUM, TOTAL (UG/L AS AL)	840417		1140000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01105	ALUMINUM, TOTAL (UG/L AS AL)	840424		1260000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01105	ALUMINUM, TOTAL (UG/L AS AL)	840502		1260000.0000000	11TOX09	IRONMT-1A	
WHIS0187	01105	ALUMINUM, TOTAL (UG/L AS AL)	840508		1370000.0000000	11TOX09	IRONMT-1A	

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) WHISTABS.ZIP

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

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

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

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

(d) WHISOV0.DOC - Overview of park and retrieved data.

(e) WHISOV1.DOC - Station period of record table.

(f) WHISOV2.DOC - Parameter period of record table.

(g) WHISOV3.DOC - Station/parameter period of record table.

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

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

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

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

(l) WHISBAD.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 WHISOV1.DOC is in the subdirectory C:\WATER, you could type: PRINT C:\WATER\WHISOV1.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) WHISFIGS.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 WHIS0001. 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 WHIS0001) 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) WHISPARM.ZIP

This file compresses WHISPARM.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) WHISSITE.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) WHISWQ.DBF - All water quality monitoring station locations within the project's study area downloaded from STORET.

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

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

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

(e) WHISDAMS.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) WHISMISC.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) WHISEXEC.DOC - WordPerfect Ver. 5.1 copy of the Executive Summary in the report.

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

(f) WHISWQ - 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 (WHISWQA, WHISWQB, WHISWQC, etc.) and the index map name will end with an ampersand (&).

(g) WHISIDG - 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 (WHISIDGA, WHISIDGB, WHISIDGC, 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) WHISSEHY - 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 WHISFIGS.ZIP and WHISTABS.ZIP, you can use the PRINTZIP program to print any of the PCL files in WHISMISC.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) WHISRF3.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) WHISWQMW.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: WHISPARM.DBF in WHISPARM.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: WHISPARM.DBF in WHISPARM.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: WHISPARM.DBF in WHISPARM.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: WHISWQ.DBF in WHISSITE.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: WHISWQ.DBF in WHISSITE.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: WHISIFD.DBF in WHISSITE.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: WHISIFD.DBF in WHISSITE.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: WHISIFD.DBF in WHISSITE.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: WHISDRIN.DBF in WHISSITE.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: WHISDRIN.DBF in WHISSITE.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: WHISDRIN.DBF in WHISSITE.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: WHISGAGE.DBF in WHISSITE.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: WHISGAGE.DBF in WHISSITE.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: WHISDAMS.DBF in WHISSITE.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: WHISDAMS.DBF in WHISSITE.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: WHISDAMS.DBF in WHISSITE.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: WHISDAMS.DBF in WHISSITE.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 WHISRF3.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 WHISRF3.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 WHISRF3.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 WHISRF3.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 WHISRF3.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 WHISRF3.ZIP
First Line = Catalog Unit Number (8 Characters)
Subsequent Lines:
L=DDMMSS,L=DDDMMSS,L=DDMMSS,L=DDDMMSS,L=DDMMSS,L=DDDMMSS, ...
Example:
02070010
L=391259,L=0770809,L=391220,L=0770749,L=391147,L=0770715,L=391120,L=0770633,
L=391058,L=0770535,L=391042,L=0770520,L=391016,L=0770427,L=390948,L=0770416,
L=390526,L=0765331,L=390500,L=0765149,L=390456,L=0765139,L=390357,L=0765123,
...
L=390744,L=0771007,L=390826,L=0771022,L=390910,L=0771022,L=390950,L=0771003,
L=391107,L=0770922,
There can be as many as four latitude/longitude pairs per line.

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

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

Appendix C

STORET Water Quality Control/Edit Checking

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

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

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

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

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

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

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

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

Appendix D

STORET Administrative Parameters

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

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

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

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

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

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

Appendix E

STORET Parameters Not Suitable for Statistical Analysis

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

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

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

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

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

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

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

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

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

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

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

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

Appendix F

National EPA Water Quality Criteria Summary[1]

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
7782505	46472	0.019		0.013		CHLORINE, TOTAL RESIDUAL, AVERAGE VALUE, WATER	MG/L	General Inorganic
7782505	46473	0.019		0.013		CHLORINE, FREE AVAILABLE, AVERAGE VALUE, WATER	MG/L	General Inorganic
57125	46479	22	200	1.0		CYANIDE, DISSOLVED, WATER	UG/L	General Inorganic
7440382	46551	360	50	69		ARSENIC, FIELD ACIDIFIED W/HNO3, LAB FILTERED	UG/L	Metal
7440393	46558		2000			BARIUM, FIELD ACIDIFIED W/HNO3-LAB FILT	UG/L	Metal
7440439	46559	3.9[+]	5.0	43		CADMIUM,FIELD ACIDIFIED-HNO3-LAB FILTER	UG/L	Metal
7440473	46560		100			CHROMIUM, FIELD ACIDIFIED-HNO3-LAB FILT.	UG/L	Metal
7440508	46562	18[+]	1300[a]	2.9		COPPER, FIELD ACIDIFIED-HNO3- LAB FILTER.	UG/L	Metal
7439921	46564	82[+]	15[a]	220		LEAD, FIELD ACIDIFIED-HNO3-LAB FILTERED	UG/L	Metal
7440224	46566	4.1[+]	100[s]	0.12		SILVER, FIELD ACIDIFIED-HNO3-LAB FILTER.	UG/L	Metal
7440666	46567	120[+]	5000[s]	95		ZINC, EXTRACTABLE, FIELD ACID W/HNO3,LAB FILTR	UG/L	Metal
56382	49011	0.065				UNKNOWNS AS PARATHION IN WHOLE WATER SAMPLE	UG/L	Pesticide
7782505	50058	0.019		0.013		CHLORINE DOSE	MG/L	General Inorganic
7782505	50060	0.019		0.013		CHLORINE, TOTAL RESIDUAL	MG/L	General Inorganic
7782505	50064	0.019		0.013		CHLORINE, FREE AVAILABLE	MG/L	General Inorganic
7782505	50066	0.019		0.013		CHLORINE, COMBINED AVAILABLE	MG/L	General Inorganic
7782505	50074	0.019		0.013		CHLORITE, WHOLE WATER	MG/L	General Inorganic
	61215				200[^]	FECAL COLIFORM, GENERAL #/100ML	#/100ML	Bacteriological
16887006	70352	860	250[s]			CHLORIDE, ORGANIC	MG/L	General Organic
14797558	71850		44			NITRATE NITROGEN, TOTAL (AS NO3)	MG/L	Nitrogen

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
14797558	71851		44			NITRATE NITROGEN, DISSOLVED (AS NO3)	MG/L	Nitrogen
14797650	71855		3.3			NITRITE NITROGEN, TOTAL (AS NO2)	MG/L	Nitrogen
14797650	71856		3.3			NITRITE NITROGEN, DISSOLVED (AS NO2)	MG/L	Nitrogen
7439976	71890	2.4	2.0	2.1		MERCURY, DISSOLVED	UG/L	Metal
7439976	71895	2.4	2.0	2.1		MERCURY, SUSPENDED	UG/L	Metal
7439976	71900	2.4	2.0	2.1		MERCURY, TOTAL	UG/L	Metal
7439976	71901	2.4	2.0	2.1		MERCURY,TOTAL RECOVERABLE IN WATER AS HG	UG/L	Metal
7440439	71946	3.9[+]	5.0	43		CADMIUM, EXTRACTABLE	UG/L	Metal
7440473	71947		100			CHROMIUM, EXTRACTABLE	UG/L	Metal
7439921	71949	82[+]	15[a]	220		LEAD, EXTRACTABLE	UG/L	Metal
7440666	71950	120[+]	5000[s]	95		ZINC, EXTRACTABLE	UG/L	Metal
7440508	71951	18[+]	1300[a]	2.9		COPPER, EXTRACTABLE	UG/L	Metal
1336363	76011	2000	500	10000		PCBS, SUSPENDED, WATER	NG/L	General Organic
1336363	76012	2000	500	10000		PCBS, TOTAL RECOVERABLE, WATER	NG/L	General Organic
156592	77093		70			CIS-1,2-DICHLOROETHYLENE, WHOLE WATER	UG/L	General Organic
100425	77128		100			STYRENE, WHOLE WATER	UG/L	General Organic
106489	77296			29700[*]		P-CHLOROPHENOL, WHOLE WATER	UG/L	General Organic
106934	77651		0.05			1,2-DIBROMOETHANE, WHOLE WATER	UG/L	General Organic
95954	77687	100[p]		240[p]		2,4,5-TRICHLOROPHENOL, WHOLE WATER	UG/L	General Organic
935955	77769			440[*]		2,3,5,6-TETRACHLOROPHENOL, WHOLE WATER	UG/L	General Organic

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
103231	77903		400			BIS (2-ETHYLHEXYL) ADIPATE, WHOLE WATER	UG/L	General Organic
18540299	78247	16	100	1100		CHROMIUM, HEXAVALENT, TOTAL RECOVERABLE	UG/L	Metal
57125	78248	22	200	1.0		CYANIDE, TOTAL RECOVERABLE, WATER, WHOLE	UG/L	Metal
	78456	11*		12*		HALOMETHANES, SUMMATION, WHOLE WATER	MG/L	General Organic
14808798	78462		250s			SULFATE, WATER, DISSOLVED AS S	MG/L	Metal
85007	78885		20			DIQUAT DIBROMIDE (REGLONE) WHOLE WATER SAMPLE	UG/L	Pesticide
7440611	80020		20c			URANIUM, DISS. BY EXTRACTION FLUOROMETRIC	UG/L	Radiological
16065831	80357	1700	100	10300*		CHROMIUM, TRIVALENT, DISSOLVED	UG/L	Metal
57125	81208	0.022	0.2	0.001		CYANIDE,FREE (NOT AMENABLE TO CHLORINATION)	MG/L	General Inorganic
608731	81283	100*		0.34*		BENZENEHEXACHLORIDE, WHOLE WATER	UG/L	Pesticide
88857	81287		7.0			DNBP(C10H12N2O5), WHOLE WATER SAMPLE	UG/L	Pesticide
26638197	81327	23000*	5.0	10300*		DICHLOROPROPANE, WHOLE WATER SAMPLE	UG/L	General Organic
25321226	81333	1120*		1970*		DICHLOROBENZENE ISOMER, WHOLE WATER SAMPLE	UG/L	General Organic
2921882	81403	0.083		0.011		DURSBAN (CHLOROPYRIFOS) WHOLE WATER SAMPLE	UG/L	Pesticide
1563662	81405		40			CARBOFURAN (EURADAN) WHOLE WATER SAMPLE	UG/L	Pesticide
76017	81501	7240*		390*		PENTACHLOROETHANE, WHOLE WATER SAMPLE	UG/L	General Organic
25321226	81524	1120*		1970*		DICHLOROBENZENE, WHOLE WATER SAMPLE	UG/L	General Organic
25322207	81549	9320*				TETRACHLOROETHANE, WHOLE WATER SAMPLE	UG/L	General Organic
26638197	81703	23*	0.005*	10.3*		DICHLOROPROPANE, WHOLE WATER SAMPLE	MG/L	General Organic
7440508	81750	18+	1300a	2.9		COPPER, INTERSTITIAL WATERFROM SEDIMENTS	UG/L	Metal

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
7440020	81752	1400[+]	100	75		NICKEL, INTERSTITIAL WATER FROM SEDIMENTS	UG/L	Metal
7440666	81754	120[+]	5000[s]	95		ZINC, INTERSTITIAL WATER FROM SEDIMENTS	UG/L	Metal
25323891	81853	18000[*]				TRICHLOROETHANE, WHOLE WATER SAMPLE	UG/L	General Organic
7439976	81931	2.4	2.0	2.1		MERCURY (HG) SUSPENDED FRACTION OF WATER	UG/G	Metal
7440666	81933	120[+]	5000[s]	95		ZINC (ZN) SUSPENDED FRACTION OF WATER	UG/G	Metal
7439921	81936	82[+]	15[a]	220		LEAD (PB) DISSOLVED CATIONIC SPECIES	UG/L	Metal
7440439	81937	3.9[+]	5.0	43		CADMIUM (CD) DISSOLVED CATIONIC SPECIES	UG/L	Metal
7440473	81938		100			CHROMIUM (CR) DISSOLVED CATIONIC SPECIES	UG/L	Metal
7440508	81939	18[+]	1300[a]	2.9		COPPER (CU) DISSOLVED CATIONIC SPECIES	UG/L	Metal
7440666	81940	120[+]	5000[s]	95		ZINC (ZN) DISSOLVED CATIONIC SPECIES	UG/L	Metal
7440473	81941		100			CHROMIUM (CR) DISSOLVED ANIONIC SPECIES	UG/L	Metal
7440508	81942	18[+]	1300[a]	2.9		COPPER (CU) DISSOLVED ANIONIC SPECIES	UG/L	Metal
7440666	81943	120[+]	5000[s]	95		ZINC (ZN) DISSOLVED ANIONIC SPECIES	UG/L	Metal
	82078				50[l]	TURBIDITY, FIELD	NTU	Physical
	82079				50[l]	TURBIDITY, LAB	NTU	Physical
88857	82226		7.0			2 SECONDARY BUTYL 4,6-DINITROPHENOL	UG/L	Pesticide
16887006	82295	860000	250000[s]			CHLORIDE DISSOLVED AS CL IN WATER	UG/L	General Inorganic
72435	82350		40			METHOXYCHLOR, DISSOLVED IN WATER	UG/L	Pesticide
72435	82351		40			METHOXYCHLOR, SUSPENDED IN WATER	UG/L	Pesticide
115297	82354	0.22		0.034		ENDOSULFAN, DISSOLVED IN WATER	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
115297	82355	0.22		0.034		ENDOSULFAN, SUSPENDED IN WATER	UG/L	Pesticide
57125	82573	0.022	0.2	0.001		CYANIDE/CHLORINATION IN WATER	MG/L	General Inorganic
1646873	82586		4.0			ALDICARB SULFOXIDE, WATER, TOTAL RECOVERABLE	UG/L	General Organic
1646884	82587		2.0			ALDICARB SULFONE, WHOLE WATER, TOTAL RECOVERABLE	UG/L	General Organic
23135220	82613		200			OXAMYL, WHOLE WATER, TOTAL RECOVERABLE	UG/L	Pesticide
1563662	82615		40			CARBOFURAN, WHOLE WATER, TOTAL RECOVERABLE	UG/L	Pesticide
116063	82619		3.0			ALDICARB, WHOLE WATER, TOTAL RECOVERABLE	UG/L	Pesticide
33213659	82624	0.22		0.034		ENDOSULFAN, BETA, WH WATER, TOTAL RECOVERABLE	UG/L	Pesticide
96128	82625		0.2			DIBROMOCHLOROPROPANE, WATER, TOTAL RECOVERABLE	UG/L	Pesticide

Footnote Key:

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

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

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

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

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

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

[!]Arizona state standard.

[a]EPA action level, 40 CFR 141.80.

[b]California and Florida state bathing water standards.

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

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

[p]Proposed Criterion.

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

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

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

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

Appendix G

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

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

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

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

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

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

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

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

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

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

STORET Code	Bacteria Parameter Group	C.A.S. Number
00111	RATIO OF FECAL COLIFORM TO FECAL STREPTOCOCCI	-
31501	COLIFORM, TOT, MEMBRANE FILTER, IMMED., M-ENDO MED,35C	-
31503	COLIFORM, TOT, MEMBRANE FILTER, DELAY, M-ENDO MED, 35C	-
31504	COLIFORM, TOT, MEMBRANE FILTER, IMMED., LES-ENDO AGAR, 35C	-
31505	COLIFORM, TOT, MPN, CONFIRMED TEST,35C(TUBE 31506)	-
31506	COLIFORM, TOT, MPN, CONFIRMED TEST, TUBE CONFIG.	-
31507	COLIFORM, TOT, MPN, COMPLETED TEST,35C(TUBE 31508)	-
31508	COLIFORM, TOT, MPN, COMPLETED TEST, TUBE CONFIG.	-
31613	FECAL COLIFORM, MEMBR, FILTER,M-FC AGAR,44.5C,24HR	-
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	-
31615	FECAL COLIFORM, MPN, EC MED, 44.5C (TUBE 31614)	-
31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5C	-
31617	FECAL COLIFORM, MPN,EIJKMAN TEST,44.5C(TUBE 31618)	-
31625	FECAL COLIFORM, MF, M-FC, 0.7 UM	-
31648	E. COLI - MTEC-MF	-
31649	ENTEROCOCCI- ME-MF	-
31673	FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR	-
31676	FECAL STREPTOCOCCI, MPN, KF BROTH, TUBE CONFIG.	-
31677	FECAL STREPTOCOCCI, MPN, AD-EVA, 35C (TUBE 31678)	-
31751	PLATE COUNT, TOTAL, TPC AGAR, 35C, 24 HRS	-
61214	FECAL STREPTOCOCCI, GENERAL #/100ML	-
61215	FECAL COLIFORM, GENERAL #/100ML	-

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

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
00723	CYANIDE, DISSOLVED STD METHOD (UG/L)	57125
00724	CYANIDE COMPLEXED TO A RANGE OF COMPNDS (UG/L)	57125
00969	CHRYSOTILE ASBESTOS FIBERS/LITER	1332214
00973	AMPHIBOLE ASBESTOS FIBERS/LITER	1332214
00976	AMBIGUOUS ASBESTOS FIBERS/LITER	1332214
00977	NON-AMPHIBOLE NON-CHRYSOTILE ASBESTOS FIBERS/LITER	1332214
00978	ARSENIC, TOTAL RECOVERABLE IN WATER AS AS	7440382
00981	SELENIUM, TOTAL RECOVERABLE IN WATER AS SE (UG/L)	7782492
00982	THALLIUM, TOTAL RECOVERABLE IN WATER AS (UG/L)	7440280
00990	SELENITE, TOTAL RECOVERABLE INORGANIC (UG/L)	7782492
00991	ARSENIC, TOTAL RECOVER. TRIVALENT INORGANIC (UG/L)	7440382
00995	ARSENIC, INORGANIC DISSOLVED (UG/L AS AS)	7440382
00996	ARSENIC, INORGANIC SUSPENDED (UG/L AS AS)	7440382
00997	ARSENIC, INORGANIC TOTAL (UG/L AS AS)	7440382
00998	BERYLLIUM, TOTAL RECOVERABLE IN WATER AS BE (UG/L)	7440417
01000	ARSENIC, DISSOLVED (UG/L AS AS)	7440382
01001	ARSENIC, SUSPENDED (UG/L AS AS)	7440382
01002	ARSENIC, TOTAL (UG/L AS AS)	7440382
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	7440417
01011	BERYLLIUM, SUSPENDED (UG/L AS BE)	7440417
01012	BERYLLIUM, TOTAL (UG/L AS BE)	7440417
01025	CADMIUM, DISSOLVED (UG/L AS CD)	7440439
01026	CADMIUM, SUSPENDED (UG/L AS CD)	7440439
01027	CADMIUM, TOTAL (UG/L AS CD)	7440439
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	7440473
01031	CHROMIUM, SUSPENDED (UG/L AS CR)	7440473
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	7440473
01033	CHROMIUM, TRI-VAL (UG/L AS CR)	16065831
01034	CHROMIUM, TOTAL (UG/L AS CR)	7440473

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
01040	COPPER, DISSOLVED (UG/L AS CU)	7440508
01041	COPPER, SUSPENDED (UG/L AS CU)	7440508
01042	COPPER, TOTAL (UG/L AS CU)	7440508
01049	LEAD, DISSOLVED (UG/L AS PB)	7439921
01050	LEAD, SUSPENDED (UG/L AS PB)	7439921
01051	LEAD, TOTAL (UG/L AS PB)	7439921
01057	THALLIUM, DISSOLVED (UG/L AS TL)	7440280
01058	THALLIUM, SUSPENDED (UG/L AS TL)	7440280
01059	THALLIUM, TOTAL (UG/L AS TL)	7440280
01065	NICKEL, DISSOLVED (UG/L AS NI)	7440020
01066	NICKEL, SUSPENDED (UG/L AS NI)	7440020
01067	NICKEL, TOTAL (UG/L AS NI)	7440020
01074	NICKEL, TOTAL RECOVERABLE IN WATER AS NI (UG/L)	7440020
01075	SILVER, DISSOLVED (UG/L AS AG)	7440224
01076	SILVER, SUSPENDED (UG/L AS AG)	7440224
01077	SILVER, TOTAL (UG/L AS AG)	7440224
01079	SILVER, TOTAL RECOVERABLE IN WATER AS AG (UG/L)	7440224
01089	COPPER AS SUSPENDED BLACK OXIDE IN WATER (MG/L)	7440508
01090	ZINC, DISSOLVED (UG/L AS ZN)	7440666
01091	ZINC, SUSPENDED (UG/L ZN)	7440666
01092	ZINC, TOTAL (UG/L AS ZN)	7440666
01094	ZINC, TOTAL RECOVERABLE IN WATER AS ZN (UG/L)	7440666
01095	ANTIMONY, DISSOLVED (UG/L AS SB)	7440360
01096	ANTIMONY, SUSPENDED (UG/L AS SB)	7440360
01097	ANTIMONY, TOTAL (UG/L AS SB)	7440360
01113	CADMIUM, TOTAL RECOVERABLE IN WATER AS CD (UG/L)	7440439
01114	LEAD, TOTAL RECOVERABLE IN WATER AS PB (UG/L)	7439921
01118	CHROMIUM, TOTAL RECOVERABLE IN WATER AS CR (UG/L)	7440473
01119	COPPER,TOTAL RECOVERABLE IN WATER AS CU (UG/L)	7440508

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Appendix H

Literature Cited

Code of Federal Regulations. 1994. Protection of Environment. 40 CFR Parts 100 to 149. Revised as of July 1, 1994. Published by the Office of the Federal Register, National Archives and Records Administration. U.S. Government Printing Office, Washington, D.C. 20402.

Gilbert, R. O. 1987. Statistical Methods for Environmental Pollution Monitoring. Van Nostrand Reinhold Co., New York, NY. 320p.

GKY and Associates. 1990. Dam Inventory Database and Retrieval Software: Final Report. U.S. Environmental Protection Agency, Water Quality Analysis Branch. Under Contract #68-03-3339.

Kunkle, S. and J. Wilson. 1984. Specific Conductance and pH Measurements in Surface Waters: An Introduction for Park Natural Resource Specialists. Water Resources Field Support Laboratory Report No. 84-3. National Park Service, Water Resources Division, Fort Collins, Colorado 80525. 51p.

National Park Service. 1993. Strategic Plan for Conducting Baseline Natural Resource Inventories in the National Park Service. National Park Service, Washington Office, Servicewide Inventory and Monitoring Program, Washington, D.C. Unpublished. 17p.

U.S. Environmental Protection Agency. 1995. Quality Criteria for Water 1995. Final Draft. Office of Water Regulations and Standards, Washington, D.C.

U.S. Environmental Protection Agency. 1989. STORET User Handbook. U.S. Environmental Proteciton Agency, Office of Water, Washington, D.C. 20460.

U.S. Environmental Protection Agency. 1992. Office of Water Environmental and Program Information Systems Compendium. U.S. Environmental Protection Agency, Office of Water, Washington, D.C. 20460. 152p.

U.S. Environmental Protection Agency. 1993. Technical Description of the Reach File. U.S. Environmental Protection Agency, Office of Water, Washington, D.C. 20460. 23p.

U.S. Geological Survey. 1982. A U.S. Geological Survey Data Standard: Codes for the Identification of Hydrologic Units in the United States and Caribbean Outlying Areas. Geological Survey Circular 878-A. U.S. Geological Survey, Water Resources Division, Reston, VA. 22092. 115p.

U.S. Geological Survey 1992. Hydro-Climatic Data Network: A U.S. Geological Survey Streamflow Data Set for the United States for the Study of Climate Variations 1874-1988. Open File Report 92-129/USGS Water Supply Paper No. 2406. U.S. Geological Survey, Water Resources Division, Reston, VA. 22092. 193p.

Ward, R. C., J. C. Loftis, and G. B. McBride. 1990. Design of Water Quality Monitoring Systems. Van Nostrand Reinhold Co., New York, NY. 231p.

Appendix I

Selected General Water Quality References

American Public Health Association. 1989. Standard Methods for the Examination of Water and Wastewater (17th ed.). Washington, D.C. 1476p.

Drever, J. I. 1982. The Geochemistry of Natural Waters. Prentice-Hall, Inc., Englewood Cliffs, NJ. 388p.

Dunne, T. and L. B. Leopold. 1978. Water in Environmental Planning. W.H. Freeman and Company, San Francisco, CA. 818p.

Everett, L. G. 1980. Groundwater Monitoring. General Electric Co., Schenectady, NY. 440p.

Fetter, C. W. 1988. Applied Hydrogeology (2nd ed.). MacMillan Publishing Co., New York, NY. 592p.

Flora, M. D., T. E. Ricketts, J. Wilson, and S. Kunkle. 1984. Water Quality Criteria: An Overview for Park Natural Resource Specialists. WRFSL Report No. 84-4. National Park Service, Water Resources Field Support Laboratory, Fort Collins, CO. 46p.

Gilbert, R. O. 1987. Statistical Methods for Environmental Pollution Monitoring. Van Nostrand Reinhold Co., New York, NY. 320p.

Hem, J. D. 1985. Study and Interpretation of the Chemical Characteristics of Natural Water (3rd ed.). U.S. Geological Survey Water-Supply Paper 2254. U.S. Government Printing Office, Washington, D.C. 263p.

Kunkle, S., W. S. Johnson, and M. Flora. 1987. Monitoring Stream Water Quality for Land-Use Impacts: A Training Manual for Natural Resource Management Specialists. Water Resources Division, National Park Service, Fort Collins, CO. 102p.

Kunkle, S. and J. Wilson. 1984. Specific Conductance and pH Measurements in Surface Waters: An Introduction for Park Natural Resource Specialists. Water Resources Field Support Laboratory Report No. 84-3. National Park Service, Water Resources Division, Fort Collins, Colorado 80525. 51p.

Merritt, R. W., and K. W. Cummins (eds.). 1984. An Introduction to the Aquatic Insects of North America (2nd ed.). Kendall/Hunt Publishing Co., Dubuque, IA. 44p.

Morel, F. M. 1983. Principles of Aquatic Chemistry. John Wiley & Sons, Inc., New York, NY. 446p.

Nielsen, D. M. (ed.). 1991. Practical Handbook of Ground-Water Monitoring. Lewis Publishers, Inc. Chelsea, MI. 717p.

Ponce, S. L. 1980a. Statistical Methods Commonly Used in Water Quality Data Analysis. WSDG Technical Paper WSDG-TP-00001. U.S. Department of Agriculture, Forest Service, Watershed Systems Development Group, Fort Collins, CO. 136p.

Ponce, S. L. 1980b. Water Quality Monitoring Programs. WSDG Technical Paper WSDG-TP-00002. U.S. Department of Agriculture, Forest Service, Watershed Systems Development Group, Fort Collins, CO. 68p.

Rand, G. M. and S. R. Petrocelli (eds.). 1985. Fundamentals of Aquatic Toxicology. Hemisphere Publishing Co., New York, NY. 666p.

Rantz, S. E. and others. 1982. Measurement and Computation of Streamflow: Volume 1. Measurement of Stage and Discharge. Volume 2. Computation of Discharge. U.S. Department of the Interior, Geological Survey Water Supply Paper 2175. 631p.

Stednick, J.D. and D. M. Gilbert. 1998. Water Quality Inventory Protocol: Riverine Environments. National Park Service, Water Resources Division Technical Report NPS/NRWRD/NRTR-98/177. Fort Collins, CO. 103p.

Stednick, J. D. 1991. Wildland Water Quality Sampling and Analysis. Academic Press, Inc., San Diego, CA. 217p.

United Nations Educational, Scientific and Cultural Organization (UNESCO). 1978. Water Quality Surveys: A Guide for the Collection and Interpretation of Water Quality Data. IHD-WHO Working Group on the Quality of Water, Paris, France. 350p.

U.S. Department of the Interior. 1977. National Handbook of Recommended Methods for Water-Data Acquisition. U.S. Geological Survey, Office of Water-Data Coordination, Reston, VA. 990p.

U.S. Environmental Protection Agency. 1978. Microbiological Methods for Monitoring the Environment: Water and Wastes. R. H. Border, J. A. Winter, and P. W. Scarpino. EPA-600/8-78-017. Office of Research and Development, Environmental Monitoring Systems Laboratory, Cincinnati, OH. 338p.

U.S. Environmental Protection Agency. 1979b. Methods for Chemical Analysis of Water and Wastes. EPA-600/4-79-020. (Revised March 1983). Office of Research and Development, Environmental Monitoring Systems Laboratory, Cincinnati, OH. 460p.

U.S. Environmental Protection Agency. 1983. Water Quality Standards Handbook. Office of Water Regulations and Standards, Washington, D.C. 218p.

U.S. Environmental Protection Agency. 1995. Quality Criteria for Water 1995. Final Draft. Office of Water Regulations and Standards, Washington, D.C.

U.S. Environmental Protection Agency. 1989. Rapid Bioassessment Protocols for Use in Streams and Rivers: Benthic Macroinvertebrates and Fish. J. L. Plafkin, M. T. Barbour, K. D. Porter, S. K. Gross, and R. M. Hughes. EPA-444/4-89-001. Office of Water Regulations and Standards, Assessment and Watershed Protection Division, Washington, D.C. 162p.

U.S. Environmental Protection Agency. 1990. Macroinvertebrate Field and Laboratory Methods for Evaluating the Biological Integrity of Surface Waters. D. J. Klemm, P. A. Lewis, F. Fulk, and J. M. Lazorchak. EPA-600/4-90-030. Office of Research and Development, Environmental Monitoring Systems Laboratory, Cincinnati, OH. 256p.

U.S. Environmental Protection Agency. 1991a. Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms (4th ed.). C. I. Weber, ed. EPA-600/4-90-027. Office of Research and Development, Environmental Monitoring Systems Laboratory, Cincinnati, OH. 293p.

U.S. Environmental Protection Agency. 1991b. Monitoring Guidelines to Evaluate Effects of Forestry Activities on Streams in the Pacific Northwest and Alaska. L. H. MacDonald, A. W.Smart, and R. C. Wissmar. EPA-910/9-91-001. Region 10, Seattle, WA. 162p.

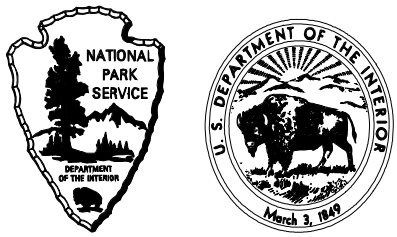
U.S. Environmental Protection Agency. 1993. Guide to Federal Water Quality Programs and Information. T. Stuart and N. P. Ross. EPA-230-B-93-001. Office of Strategic Planning and Environmental Data, Environmental Statistics and Information Division. Washington, D.C. 194p.

Verschueren, K. 1983. Handbook of Environmental Data on Organic Chemicals (2nd ed.). Van Nostrand Reinhold Co., New York, NY. 1310p.

Viessman W. and M. J. Hammer. 1985. Water Supply and Pollution Control (4th ed.). Harper and Row, Publishers, Inc. New York, NY. 797p.

Ward, R. C., J. C. Loftis, and G. B. McBride. 1990. Design of Water Quality Monitoring Systems. Van Nostrand Reinhold Co., New York, NY. 231p.

Wetzel, R. G. 1983. Limnology (2nd ed.). Sanders College Publishing, Philadelphia, PA. 767p.



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

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