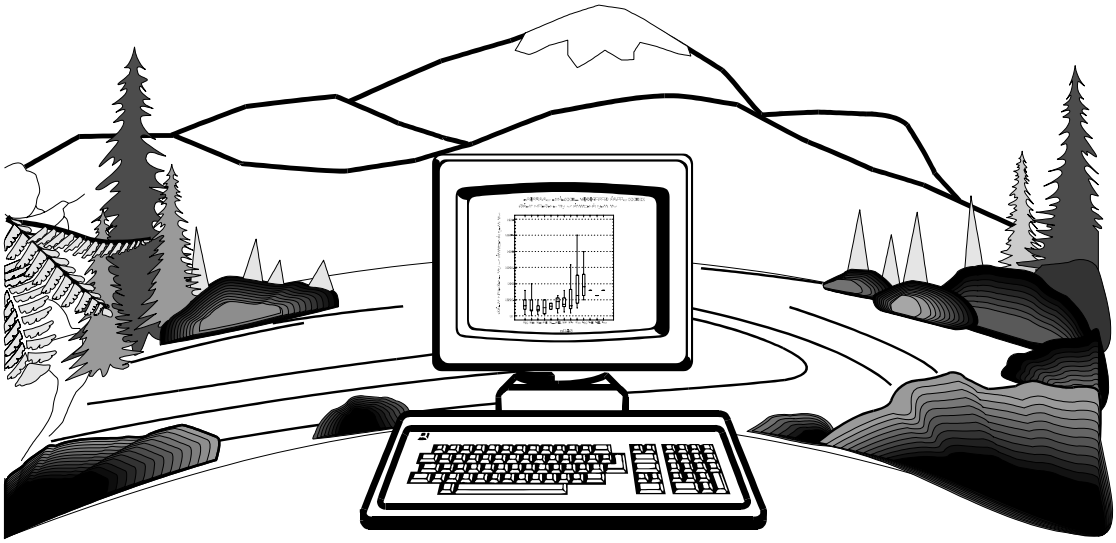
Baseline Water Quality Data

Inventory and Analysis

Padre Island National Seashore



Water Resources Division and Servicewide Inventory and Monitoring Program

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

The National Park Service Water Resources Division is responsible for providing water resources management policy and guidelines, planning, technical assistance, training, and operational support to units of the National Park System. Program areas include water rights, water resources planning, regulatory guidance and review, hydrology, water quality, watershed management, watershed studies, and aquatic ecology.

Technical Reports

The National Park Service disseminates the results of biological, physical, and social research through the Natural Resources Technical Report Series. Natural resources inventories and monitoring activities, scientific literature reviews, bibliographies, and proceedings of technical workshops and conferences are also disseminated through this series.

Mention of trade names or commercial products does not constitute endorsement or recommendation for use by the National Park Service.

Copies of this report are available from the following:

Technical Information Center (303) 969-2130
Denver Service Center
P.O. Box 25287
Denver, CO 80225-0287

U. S. Department of Commerce (703) 487-4650
National Technical Information Service
5285 Port Royal Road
Springfield, VA 22161

BASELINE WATER QUALITY DATA

INVENTORY AND ANALYSIS

PADRE ISLAND NATIONAL SEASHORE

National Park Service
Water Resources Division
Fort Collins, CO 80525

Technical Report NPS/NRWRD/NRTR-2001/287

FEBRUARY 2003

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

EXECUTIVE SUMMARY

This document presents the results of surface-water-quality data retrievals for Padre Island National Seashore (PAIS) 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 PAIS study area from the IFD, DRINKS, GAGES, and DAMS databases located three industrial/municipal dischargers; no drinking water intakes; no water gages; and no water impoundments. The results of the STORET retrieval for the study area yielded 210,665 observations for 337 separate parameters collected by the NPS, U.S. Geological Survey (USGS), EPA, and Texas Natural Resource Conservation Commission at 257 monitoring stations from 1941 through 1998. Approximately 87 percent of the 210,665 observations within the study area were entered by the NPS from data collected from 1941 through 1998. Of the 183,681 observations entered into STORET by the NPS, approximately 97 percent were reported within the park boundary at an estuary station in Bird Island Basin (PAIS 0191) equipped with a data logging instrument. These data were provided by the USGS from a study that collected water quality data from the Upper Laguna Madre. Of the 257 monitoring stations, 73 stations were located within the park boundary (see Station Period of Record Tabulation). Four EPA stations within the study area (one within the park boundary) were established but contained no data. Thirty-three NPS stations within the study area (six within the park boundary) yielded composite data but contained no data appropriate for additional statistical analysis.

Most of the monitoring stations represent either one-time or intensive single-year sampling efforts by the collecting agencies. Fifty-four stations within the study area (three 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 longer-term records within the park boundary are: (1) 1205301 Laguna Madre Estuary Line 053 Site 01 (PAIS 0119); (2) 1219401 Laguna Madre Estuary Line 194 Site 01 (PAIS 0016); and (3) 1212501 Laguna Madre Estuary Line 125 (PAIS 0080). The stations yielding the longest-term records within the study area, but outside of the park boundary, are: (1) Laguna Madre in the Gulf Intracoastal Waterway (ICWW) (PAIS 0019); (2) Laguna Madre in the ICWW near Bird Island (PAIS 0182); (3) Laguna Madre in the ICWW near Baffin Bay (PAIS 0100); (4) Laguna Madre near the ICWW and the Padre Island Causeway (PAIS 0255); (5) Laguna Madre at Channel Marker C-225A north of Port Mansfield (PAIS 0044); and (6) Gulf of Mexico near Port Mansfield just beyond the jetties (PAIS 0018)[†].

Screening criteria consisting of published EPA water-quality criteria and instantaneous concentration values selected by the WRD were used to identify potential water quality problems within the study area. While the criteria represent important threshold concentrations of pollutants, it is important to remember that criteria may

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

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 PAIS water quality criteria screen found 13 groups of parameters that exceeded screening criteria at least once within the study area. Dissolved oxygen, pH, chloride, cadmium, copper, and zinc exceeded their respective EPA criteria for the protection freshwater aquatic life. Dissolved oxygen, pH, copper, mercury, nickel, silver, and zinc exceeded their respective EPA criteria for the protection of marine aquatic life. Chloride, nitrate, and cadmium 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 and marine bathing and aquatic life, respectively.

Dissolved oxygen concentrations were measured 39,809 times at 103 monitoring stations from 1967 through 1998. Of the 39,801 observations used in the criteria analysis (see Composite Type Screen in the Methodology and EPA Water Quality Criteria Analysis for Station in the Interpretive Guide To Water Quality Results for explanation), 4,510 concentrations at 34 stations were less than or equal to the 4 milligrams per liter (mg/L) EPA criterion for the protection of aquatic life from 1968 through 1998. Approximately 98 percent of the observations less than or equal to 4 mg/L were reported at an estuary station equipped with a data logging instrument within the park boundary in Bird Island Basin (PAIS 0191) from 1992 through 1998.

The pH was measured 12,118 times at 107 monitoring stations from 1968 through 1998. Of the 12,076 observations used in the criteria analysis (see Composite Type Screen in the Methodology for explanation), 3,722 observations at 81 stations were outside the pH ranges of 6.5 to 8.5 standard units (SU) (EPA chronic criteria for marine aquatic life) or 6.5 to 9.0 SU (EPA chronic criteria for freshwater aquatic life) from 1968 through 1998. Three-thousand-seven-hundred-sixteen observations at 77 marine stations were greater than or equal to pH 8.5 from 1968 through 1996. Four observations at four ponds within the park boundary, near the Gulf Ranger Station (PAIS 0151, PAIS 0152, PAIS 0154) and southwest of the Visitor Center near the road to the waste dump (PAIS 0136), were greater than or equal to pH 9.0 from 1978 through 1998. Two pH observations, 6.2 SU and 6.5 SU in Laguna Madre at Channel Marker C-225A north of Port Mansfield (PAIS 0044), were less than or equal to 6.5 SU in July 1982. Approximately 80 percent of the marine observations greater than or equal to 8.5 SU were reported at an estuary station equipped with a data logging instrument within the park boundary in Bird Island Basin (PAIS 0191) during 1992 and 1993. The highest pH of 10.2 SU was reported within the park boundary at an ephemeral pond southwest of the Gulf Ranger Station (PAIS 0154) in May 1978.

Turbidity was measured 706 times at 51 monitoring stations from 1969 through 1990. Of the 662 observations used in the criteria analysis (see Composite Type Screen in the Methodology and EPA Water Quality Criteria Analysis for Station in the Interpretive Guide To Water Quality Results for explanation), 106 observations at 34 stations equaled or exceeded the WRD screening criterion of 50 Jackson Candle/Formazin/Nephelometric Turbidity Units (JTU/FTU/NTU) from 1970 through 1990. The highest observation of 374.9 JTU was reported in Laguna Madre north of Baffin Bay (PAIS 0121) in October 1975.

Total coliform concentrations were measured 217 times at 31 monitoring stations from 1970 through 1985. Two concentrations at two estuary stations in Laguna Madre, at least 10,000 Colony Forming Units per 100 milliliters (CFU/100 ml) near the ICWW and the Padre Island Causeway (PAIS 0255) and 1,300 Most Probable Number per 100 milliliters (MPN/100 ml) in the ICWW at Channel Marker C-225A north of Port Mansfield (PAIS 0044), exceeded the WRD bathing water screening criterion of 1,000 CFU/MPN/100 ml in August 1982 and June 1972, respectively. Fecal coliform concentrations were measured 274 times at 29 monitoring stations from 1972 through 1996. One concentration of 1,080 CFU/100 ml in Laguna Madre near the ICWW and the Padre Island Causeway (PAIS 0255) exceeded the WRD bathing water screening criterion of 200 CFU/MPN/100 ml in May 1995.

Chloride concentrations (including dissolved and total) were measured 630 times at 43 monitoring stations from 1968 through 1998. Of the nine observations used in the criteria analysis (see Composite Type Screen in the Methodology for explanation)[††], six dissolved concentrations, ranging from 353 mg/L to 3,100 mg/L at six ponds

[††]Water quality observations collected at marine stations were excluded from the criteria analysis due to the absence of applicable marine criteria for this parameter; however, observations collected at lake stations exposed

within the park boundary near the Gulf Ranger Station (PAIS 0154, PAIS 0155, PAIS 0157, PAIS 0158, PAIS 0159, PAIS 0161), exceeded the secondary drinking water criterion of 250 mg/L in May 1978. Four of these six concentrations also exceeded the acute freshwater criterion of 860 mg/L. The highest concentration of 3,100 mg/L was reported at a pond 700 feet east of a septic tank drain (PAIS 0158).

Nitrate concentrations (including dissolved and total) were measured 722 times at 56 monitoring stations from 1968 through 1994. Of the 13 observations used in the criteria analysis[††], one total concentration of 18.19 mg/L within the park boundary at a pond southwest of the Visitor Center near the road to the waste dump (PAIS 0136) exceeded the drinking water criterion of 10 mg/L in September 1989.

Cadmium concentrations (including dissolved and total) were measured 37 times at 24 monitoring stations from 1969 through 1989. Of the 35 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 dissolved concentration of 20 micrograms per liter (µg/L) within the park boundary at a pond southwest of the Visitor Center near the road to the waste dump (PAIS 0136) exceeded the acute freshwater criterion of 3.9 µg/L and the drinking water criterion of 5 µg/L in September 1989.

Copper concentrations (including dissolved and total) were measured 54 times at 28 monitoring stations from 1969 through 1989. Of the 51 observations used in the criteria analysis (see EPA Water Quality Criteria Analysis for Station in the Interpretive Guide To Water Quality Results for explanation), 48 concentrations at 23 estuary stations exceeded the acute marine criterion of 2.9 µg/L from 1969 through 1975. One dissolved concentration of 20 µg/L within the park boundary at a pond south of the Gulf Ranger Station (PAIS 0152) exceeded the acute freshwater criterion of 18 µg/L in September 1989. The highest concentration of 2,500 µg/L was reported in a canal in the northern portion of the study area (PAIS 0256) in February 1974.

Mercury concentrations (including dissolved and total) were measured 22 times at 16 monitoring stations from 1970 through 1989. One total concentration of 3.3 µg/L at an estuary station in Laguna Madre in the ICWW near Bird Island (PAIS 0182) exceeded the acute marine criterion of 2.1 µg/L in July 1974.

Nickel concentrations (including dissolved and total) were measured 15 times at 13 monitoring stations from 1970 through 1983. Five total concentrations, ranging from 100 µg/L to 200 µg/L at five estuary stations, in the Gulf of Mexico near Port Mansfield just beyond the jetties (PAIS 0018), Laguna Madre in the ICWW near Port Mansfield (PAIS 0019), Laguna Madre in the ICWW at Marker C121 near Baffin Bay (PAIS 0103), Baffin Bay at Marker 20 (PAIS 0104), and Laguna Madre in the ICWW near Bird Island (PAIS 0182), exceeded the acute marine criterion of 75 µg/L from 1970 through 1974. The highest concentration of 200 µg/L was reported in Laguna Madre in the ICWW near Bird Island (PAIS 0182) in July 1974.

Total silver concentrations were measured eight times at seven monitoring stations from 1970 through 1983. Eight concentrations, ranging from 18 µg/L to 50 µg/L at seven estuary stations, in Laguna Madre in the ICWW near Bird Island (PAIS 0182), the Gulf of Mexico near Port Mansfield just beyond the jetties (PAIS 0018), Laguna Madre in the ICWW near Port Mansfield (PAIS 0019), Laguna Madre in the ICWW near Baffin Bay (PAIS 0100, PAIS 0103), Baffin Bay at Marker 20 (PAIS 0104), and Laguna Madre near the ICWW and the Padre Island Causeway (PAIS 0255), exceeded the acute marine criterion of 0.12 µg/L from 1970 through 1983. The highest concentration of 50 µg/L was reported five times at five stations, near Port Mansfield (PAIS 0018, PAIS 0019), in or near Baffin Bay (PAIS 0103, PAIS 0104), and Laguna Madre in the ICWW near Bird Island (PAIS 0182), during 1970 and 1974.

Zinc concentrations (including dissolved and total) were measured 59 times at 33 monitoring stations from 1968 through 1989. Seventeen concentrations at ten marine stations, in canals in the northern portion of the study area

---

to salt spray and moisture-laden air from marine waters may have been included. Depending on climatic conditions, comparisons of data from near-shore lake stations against the chloride or nitrate drinking water or acute freshwater criteria may not be appropriate.

(PAIS 0252, PAIS 0253, PAIS 0256, PAIS 0257), the Gulf of Mexico near Port Mansfield just beyond the jetties (PAIS 0018), Laguna Madre in the ICWW near Port Mansfield (PAIS 0019), Laguna Madre in the ICWW at Marker C121 near Baffin Bay (PAIS 0103), Baffin Bay at Marker 20 (PAIS 0104), Laguna Madre north of Baffin Bay at Estuary Line 053, Site 02 (PAIS 0121), and Laguna Madre in the ICWW near Bird Island (PAIS 0182), exceeded the acute marine criterion of 95 µg/L from 1970 through 1974. One concentration of 320 µg/L within the park boundary at a pond south of the Gulf Ranger Station (PAIS 0152) exceeded the acute freshwater criterion of 120 µg/L in September 1989. Eleven of the 17 concentrations exceeding the acute marine criterion were reported at the four canal stations in the northern portion of the study area (PAIS 0252, PAIS 0253, PAIS 0256, PAIS 0257) during 1973 and 1974. The highest concentration of 440 µg/L was reported in Laguna Madre north of Baffin Bay at Estuary Line 053, Site 02 (PAIS 0121) in October 1973.

The IDEA conducted for PAIS indicates that STORET data exist for all 13 Level I parameter groups in the study area. For three parameter groups (Nitrate/Nitrogen, Phosphate/Phosphorus, and Toxic Elements), less than 25 percent of the observations were recorded since 1985. Overall, approximately 91 percent of the observations for Level I parameter groups were recorded since 1985. Data for 11 groups (Alkalinity, pH, Dissolved Oxygen, Flow, Clarity/Turbidity, Nitrate/Nitrogen, Phosphate/Phosphorus, Chlorophyll, Sulfates/Total Dissolved Solids/Hardness, Bacteria, and Toxic Elements) were recorded at less than half of the 253 monitoring stations with data. Relative to other parameter groups, data were extremely limited for the group Flow. Results for 20 of the 126 EPA priority toxic pollutants (consisting of metals and pesticides) were retrieved from STORET.

Surface water resources in the PAIS study area include the Gulf of Mexico; Laguna Madre; the Gulf Intracoastal Waterway; Baffin, Big, and other bays and coves; many small lakes and ponds; some canals; and many marshes, tidal flats, and estuaries. Many of these water resources are influenced by tidal flow and contain fresh and saline waters in transition. The data inventories and analyses contained in this report reveal a shortage of relatively recent observations at most stations throughout the study area. Of the 253 monitoring stations with data in the study area, only 13 stations accounted for the data reported to STORET since 1990. Of these 13 stations, one estuary station (PAIS 0191) equipped with a data logging instrument and measuring only five separate parameters accounted for approximately 98 percent of the 183,071 observations reported since 1990. Without adequate data it is difficult to make definitive statements regarding recent surface water quality within the study area; however, historically it appears water quality has been impacted by human activities. Potential anthropogenic sources of contaminants include industrial and municipal wastewater discharges; oil and natural gas exploration and development; marine traffic, especially tanker and barge activity; dredging and spoil disposal operations; commercial and residential development; recreational use; and atmospheric deposition.

TABLE OF CONTENTS

EXECUTIVE SUMMARY v

TABLE OF CONTENTS ix

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) 39
Industrial Facilities Discharges, Drinking Water Intakes, Water Gages,
and Water Impoundments Table 40
Representative Mean Annual Hydrograph for Seasonal Analysis 41
Contacts for Agency Codes Retrieved 42
Quantity of Data Retrieved by Agency Code 43
Station Period of Record Tabulation 44
Parameter Period of Record Tabulation 48
Station/Parameter Period of Record Tabulation 53
Station-By-Station Results 95
PAIS0001 Laguna Madre SE of Port Mansfield 97
PAIS0002 Laguna Madre SE of Port Mansfield 98
PAIS0003 Lower Laguna Madre Transect 20 Site 1 99
PAIS0004 1220301Laguna Madre Es Line 203 Site 01 101
PAIS0005 Light 289 on the Intracoastal Waterway 102
PAIS0006 Lower Laguna Madre Station 22 103
PAIS0007 Lower Laguna Madre Transect 19 Site 4 104
PAIS0008 Port Mansfield at Channel Marker 25 106
PAIS0009 Lower Laguna Madre Transect 19 Site 3 107
PAIS0010 1219403Laguna Madre Es Line 194 Site 03 109
PAIS0011 Lower Laguna Madre Transect 19 Site 2 111
PAIS0012 1219402Laguna Madre Es Line 194 Site 02 113
PAIS0013 Lower Laguna Madre Transect 19 Site 1 116
PAIS0014 Light 282 on the Intracoastal Waterway 118
PAIS0015 Port Mansfield Channel & Intracoastal Waterway 119
PAIS0016 1219401Laguna Madre Es Line 194 Site 01 121
PAIS0017 Gulf of Mexico Port Mansfield Beyond Jetties 124
PAIS0018 Gulf of Mexico at Port Mansfield@ Just Beyond Je 125
PAIS0019 Laguna Madre at Giww 157
PAIS0020 1290290Laguna Madre Es Line 902 Site 90 203
PAIS0021 South Laguna Madre 204
PAIS0022 1218803Laguna Madre Es Line 188 Site 03 205
PAIS0023 1218802Laguna Madre Es Line 188 Site 02 213
PAIS0024 Lower Laguna Madre Transect 18 Site 3 221
PAIS0025 Lower Laguna Madre Transect 18 Site 2 223
PAIS0026 Lower Laguna Madre Transect 18 Site 1 225
PAIS0027 Lower Laguna Madre Station 23 227
PAIS0028 1218801Laguna Madre Es Line 188 Site 01 228
PAIS0029 Lower Laguna Madre Station 24 230
PAIS0030 1217503Laguna Madre Es Line 175 Site 03 231
PAIS0031 Lower Laguna Madre Transect 17 Site 2 233
PAIS0032 1217502Laguna Madre Es Line 175 Site 02 235
PAIS0033 Lower Laguna Madre Transect 17 Site 1 237

PAIS0034 1217501Laguna Madre Es Line 175 Site 01 239
PAIS0035 Lower Laguna Madre Station 25 240
PAIS0036 Zone 1 East Flat Bar Seine Areas 241
PAIS0037 Zone 1 East Flat Trawl Areas 242
PAIS0038 Zone 1 Channel Trawl Areas 243
PAIS0039 Zone 1 West Flat Trawl Areas 244
PAIS0040 Zone 1 West Flat Bar Seine Areas 245
PAIS0041 Laguna Madre,1.5 Mi From Coast in Red Fish Bay 246
PAIS0042 Laguna Madre,1 Mi Off Coast in Red Fish Bay 247
PAIS0043 Light 229 on the Intracoastal Waterway 248
PAIS0044 Laguna Madre Channel Marker C-225A North of Port 249
PAIS0045 Laguna Madre at Channel Marker C-225A 287
PAIS0046 Laguna Madre East of Rincon De San Jose 288
PAIS0047 Laguna Madre East of Rincon De San Jose 289
PAIS0048 Lower Laguna Madre Transect 16 Site 2 290
PAIS0049 1216302Laguna Madre Es Line 163 Site 02 292
PAIS0050 1215702Laguna Madre Es Line 157 Site 02 300
PAIS0051 Land Cut Transect 15 Site 2 303
PAIS0052 Land Cut Transect 14A Site 2 305
PAIS0053 Marker C-225A North of Port Mansfield 307
PAIS0054 1214501Laguna Madre Es Line 145 Site 01 309
PAIS0055 1214502Laguna Madre Es Line 145 Site 02 310
PAIS0056 Land Cut Transect 14 Site 2 316
PAIS0057 Land Cut Transect 14 Site 1 318
PAIS0058 Laguna Madre 320
PAIS0059 Station 203E in the Laguna Madre 321
PAIS0060 Station 203D in the Laguna Madre 322
PAIS0061 Land Cut Transect 13 Site 1 323
PAIS0062 1213401Laguna Madre Es Line 134 Site 01 325
PAIS0063 1213402Laguna Madre Es Line 134 Site 02 327
PAIS0064 Land Cut Transect 13 Site 2 330
PAIS0065 Marker 203 on the Intracoastal Waterway 332
PAIS0066 Station 203B in the Laguna Madre 333
PAIS0067 Station 203A in the Laguna Madre 334
PAIS0068 Station 203C in the Laguna Madre 335
PAIS0069 Landcut on the Intracoastal Waterway 336
PAIS0070 Beacon 175 on the Intracoastal Waterway 337
PAIS0071 Station 37 Upper Laguna Madre 338
PAIS0072 Station 37 Upper Laguna Madre 339
PAIS0073 Station 36 Upper Laguna Madre 340
PAIS0074 Station 36 Upper Laguna Madre 341
PAIS0075 Light 163 on the Intracoastal Waterway 342
PAIS0076 1212502Laguna Madre Es Line 125 Site 02 343
PAIS0077 Laguna Madre Estuary 125-2 344
PAIS0078 Station 35 Upper Laguna Madre 345
PAIS0079 Station 35 Upper Laguna Madre 347
PAIS0080 1212501Laguna Madre Es Line 125 348
PAIS0081 1212503Laguna Madre Es Line 125 Site 03 350
PAIS0082 1212504Laguna Madre Es Line 125 Site 04 367
PAIS0083 Upper Laguna Madre Transect 12 Site 1 371
PAIS0084 Upper Laguna Madre Transect 12 Site 2 373
PAIS0085 Upper Laguna Madre Transect 12 Site 3 375
PAIS0086 Upper Laguna Madre Transect 12 Site 4 377
PAIS0087 Beacon 151 on the Intracoastal Waterway 379

PAIS0088 Station 34 Upper Laguna Madre 380
PAIS0089 Station 34 Upper Laguna Madre 381
PAIS0090 Beacon 139 on the Intracoastal Waterway 382
PAIS0091 Light 133 on the Intracoastal Waterway 383
PAIS0092 Beacon 127 on the Intracoastal Waterway 384
PAIS0093 East Baffin Bay West of Griffins Point 385
PAIS0094 East Baffin Bay East of Negrohead Point 386
PAIS0095 Baffin Bay 387
PAIS0096 1211903Laguna Madre Es Line 119 Site 03 388
PAIS0097 Station 115A in the Laguna Madre 392
PAIS0098 Baffin Bay Transect 11 Site 3 393
PAIS0099 Laguna Madre Marker 121 Mouth of Baffin Bay 395
PAIS0100 Laguna Madre ICWW/Baffin Bay 396
PAIS0101 Marker 121 Mouth of Baffin Bay 441
PAIS0102 Light 121 on Intracoastal Waterway 443
PAIS0103 Intracostal Mkr C121 444
PAIS0104 Baffin Bay at Mkr 20 446
PAIS0105 Station 101B in the Laguna Madre 448
PAIS0106 Light 115 on Intracoastal Waterway 449
PAIS0107 Beacon 115 on the Intracoastal Waterway 450
PAIS0108 Station 101A in the Laguna Madre 451
PAIS0109 Beacon 103 on the Intracoastal Waterway 452
PAIS0110 Light 103 on Intracoastal Waterway 453
PAIS0111 Marker 101 on the Intracoastal Waterway 454
PAIS0112 Station 32 Upper Laguna Madre 455
PAIS0113 Station 32 Upper Laguna Madre 456
PAIS0114 Station 32 Upper Laguna Madre 457
PAIS0115 Light 95 on Intracoastal Waterway 458
PAIS0116 Beacon 95 on the Intracoastal Waterway 459
PAIS0117 Upper Laguna Madre Transect 5 Site 1 460
PAIS0118 Upper Laguna Madre Transect 5 Site 2 462
PAIS0119 1205301Laguna Madre Es Line 053 Site 01 464
PAIS0120 Light 91 on the Intracoastal Waterway 468
PAIS0121 1205302Laguna Madre Es Line 053 Site 02 469
PAIS0122 Station 89B in the Laguna Madre 477
PAIS0123 Beacon 89 on the Intracoastal Waterway 478
PAIS0124 Station 89A in the Laguna Madre 479
PAIS0125 Light 83 on Intracoastal Waterway 480
PAIS0126 Beacon 83 on the Intracoastal Waterway 481
PAIS0127 Light 79 on the Intracoastal Waterway 482
PAIS0128 Laguna Madre Bay,6.5 Mi So of South Bird Island 483
PAIS0129 Station 31 Upper Laguna Madre 484
PAIS0130 Station 31 Upper Laguna Madre 486
PAIS0131 Station 75B in the Laguna Madre 487
PAIS0132 Station 75A in the Laguna Madre 488
PAIS0133 Beacon 75 on the Intracoastal Waterway 489
PAIS0134 Light 75 on Intracoastal Waterway 490
PAIS0135 Upper Laguna Madre Transect 4 Site 2 491
PAIS0136 Pond C Near End of Park Road to Waste Dump 493
PAIS0137 Marker 72 on the Intracoastal Waterway 495
PAIS0138 Station 30 Upper Laguna Madre 496
PAIS0139 Station 30 Upper Laguna Madre 497
PAIS0140 Station 29 Upper Laguna Madre 498
PAIS0141 Station 29 Upper Laguna Madre 500

PAIS0142 Station 71A in the Laguna Madre 501
PAIS0143 Station 72B in the Laguna Madre 502
PAIS0144 Station 70A in the Laguna Madre 503
PAIS0145 Station 72A in the Laguna Madre 504
PAIS0146 1204402Laguna Madre Es Line 044 Site 02 505
PAIS0147 Station 69B in the Laguna Madre 507
PAIS0148 Beacon 69 on the Intracoastal Waterway 508
PAIS0149 Marker 59 on the Intracoastal Waterway 509
PAIS0150 Light 69 on Intracoastal Waterway 511
PAIS0151 Pond Near Bird Island Road (Padre Island 2) 512
PAIS0152 Pond B Off Main Road South of Ranger Station 514
PAIS0153 Permanent Pond 0.4 Mile South of Ranger Station 516
PAIS0154 Ephemeral Pond 400 Yards West of PP3 518
PAIS0155 Ephemeral Pond 500 Feet SE From Septic Drain 520
PAIS0156 Station 69A in the Laguna Madre 522
PAIS0157 Ephemeral Pond 400 Feet SE From Septic Drain 523
PAIS0158 Permanent Pond 700 Feet East From Septic Drain 525
PAIS0159 Ephemeral Pond 500 Feet NE of Septic Drain 527
PAIS0160 Laguna Madre,3 Mi So of So Bird Island 529
PAIS0161 Ephemeral Pond 0.25 Mile NNW of Ranger Station 530
PAIS0162 Laguna Madre,2 Miles South of South Bird Island 532
PAIS0163 Station 64B in the Laguna Madre 533
PAIS0164 Station 64A in the Laguna Madre 534
PAIS0165 Pond Near Ranger Station (Padre Island 1) 535
PAIS0166 Beacon 63 on the Intracoastal Waterway 537
PAIS0167 Light 63 on the Intracoastal Waterway 538
PAIS0168 Light 63 on Intracoastal Waterway 539
PAIS0169 Station 62A in the Laguna Madre 540
PAIS0170 Station 63B in the Laguna Madre 541
PAIS0171 Station 61B in the Laguna Madre 542
PAIS0172 Pond A Near Bird Island Road 543
PAIS0173 Permanent Pond Beside Bird Island Road 545
PAIS0174 Station 61A in the Laguna Madre 546
PAIS0175 Laguna Madre Off ICW CM 123 547
PAIS0176 Marker 61 on the Intracoastal Waterway 548
PAIS0177 Station 63A in the Laguna Madre 549
PAIS0178 Station 59A in the Laguna Madre 550
PAIS0179 North Laguna Madre 551
PAIS0180 Marker 59 on the Intracoastal Waterway 552
PAIS0181 Laguna Madre Intracoastal Waterway Marker 59 553
PAIS0182 Laguna Madre ICWW/Bird Island 555
PAIS0183 Station 57B in the Laguna Madre 603
PAIS0184 Station 57C in the Laguna Madre 604
PAIS0185 Station 58B in the Laguna Madre 605
PAIS0186 Station 57A in the Laguna Madre 606
PAIS0187 Beacon 57 on the Intracoastal Waterway 607
PAIS0188 Station 58C in the Laguna Madre 608
PAIS0189 Light 57 on Intracoastal Waterway 609
PAIS0190 Station 58A in the Laguna Madre 610
PAIS0191 Bird Island Basin (HydroLab Site) 611
PAIS0192 Station 55A in the Laguna Madre 618
PAIS0193 Station 54C in the Laguna Madre 619
PAIS0194 Station 54B in the Laguna Madre 620
PAIS0195 Station 54A in the Laguna Madre 621

PAIS0196 Marker 54 on the Intracoastal Waterway 622
PAIS0197 Station 28 Upper Laguna Madre 623
PAIS0198 Station 28 Upper Laguna Madre 624
PAIS0199 Station 28 Upper Laguna Madre 626
PAIS0200 Station 51C in the Laguna Madre 627
PAIS0201 Station 51B in the Laguna Madre 628
PAIS0202 2114711Nueces Es Line 147 Site 11 629
PAIS0203 Station 51A in the Laguna Madre 630
PAIS0204 Light 51 on Intracoastal Waterway 631
PAIS0205 Beacon 51 on the Intracoastal Waterway 632
PAIS0206 Station 27 Upper Laguna Madre 633
PAIS0207 Station 27 Upper Laguna Madre 634
PAIS0208 Marker 47 on the Intracoastal Waterway 635
PAIS0209 Upper Laguna Madre Transect 3 Site 1 636
PAIS0210 1203401Laguna Madre Es Line 034 Site 01 638
PAIS0211 Beacon 45 on the Intracoastal Waterway 645
PAIS0212 Light 45 on Intracoastal Waterway 646
PAIS0213 Upper Laguna Madre Transect 3 Site 2 647
PAIS0214 Station 26 Upper Laguna Madre 649
PAIS0215 Station 26 Upper Laguna Madre 651
PAIS0216 Station 42K in the Laguna Madre 652
PAIS0217 Marker 44 on the Intracoastal Waterway 653
PAIS0218 Station 42H in the Laguna Madre 654
PAIS0219 1203402Laguna Madre Es Line 034 Site 02 655
PAIS0220 Station 42G in the Laguna Madre 658
PAIS0221 Station 42J in the Laguna Madre 659
PAIS0222 Station 42F in the Laguna Madre 660
PAIS0223 Marker 43 on the Intracoastal Waterway 661
PAIS0224 Station 42E in the Laguna Madre 662
PAIS0225 Station 42D in the Laguna Madre 663
PAIS0226 Station 42C in the Laguna Madre 664
PAIS0227 Station 42B in the Laguna Madre 665
PAIS0228 Station 42I in the Laguna Madre 666
PAIS0229 Station 42A in the Laguna Madre 667
PAIS0230 Marker 42 on the Intracoastal Waterway 668
PAIS0231 Station 41A in the Laguna Madre 669
PAIS0232 Station 40B in the Laguna Madre 670
PAIS0233 Marker 41 on the Intracoastal Waterway 671
PAIS0234 Station 40A in the Laguna Madre 672
PAIS0235 Station 39A in the Laguna Madre 673
PAIS0236 Station 38B in the Laguna Madre 674
PAIS0237 Light 39 on Intracoastal Waterway 675
PAIS0238 Beacon 39 on the Intracoastal Waterway 676
PAIS0239 Station 38A in the Laguna Madre 677
PAIS0240 Station 25 Upper Laguna Madre 678
PAIS0241 Station 25 Upper Laguna Madre 679
PAIS0242 Station 25 Upper Laguna Madre 680
PAIS0243 Marker 35 on the Intracoastal Waterway 681
PAIS0244 Beacon 33 on the Intracoastal Waterway 682
PAIS0245 Light 33 on Intracoastal Waterway 683
PAIS0246 Light 31 on the Intracoastal Waterway 684
PAIS0247 Laguna Madre,1 Mi Off Coast of Padre Island 685
PAIS0248 Light 27 on the Intracoastal Waterway 686
PAIS0249 Beacon 27 on the Intracoastal Waterway 687

PAIS0250 Light 27 on Intracoastal Waterway 688
PAIS0251 Laguna Madre Bay Off Pita Island 689
PAIS0252 Residence Canal South of Utility Road 690
PAIS0253 At Corner of Utility Complex Island 692
PAIS0254 Laguna Madre Cstl Waterway + Padre Isle Causeway 694
PAIS0255 Laguna Madre ICWW/Padre I.Cswy 695
PAIS0256 Inland of Utility Complex Island 738
PAIS0257 Canal Between Golf Course and Road 740
EPA Water Quality Criteria Analysis for Entire Park Study Area 742
NPS Servicewide Inventory and Monitoring Program
"Level I" Water Quality Inventory Data Evaluation and Analysis (IDEA) 744
Water Quality Observations Outside STORET Edit Criteria for Park 749

V. APPENDICES 791
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.

Amy Benton, Josh Johnson, Padraigh Gallagher, and Scott Ratchford helped prepare reports and write the Executive Summaries.

Elizabeth Eisenhauer, Scott Ratchford, Valdete Celaj, Sonny Emmert, Nils Babel, Greg Johnson, Karyn Boldys, and Karin Howland provided digital cartographic support, both in determining retrieval/query areas and producing maps and graphics.

Kelli O'Connor, Chris Echohawk, Adam Henson, Ryan Shy, Adriane Petersen, Aria Brissette, Eric Lord, Ronda Burns, Melanie Schnier, and Clint Bassett 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.

<u>STORET Edit Criteria</u>

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.

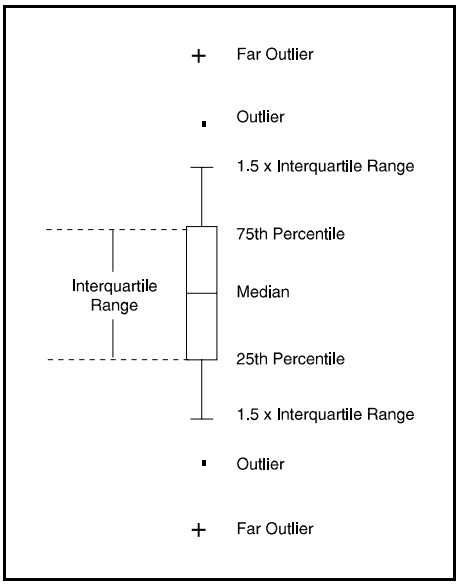
Table H. Definition of Descriptive Statistics Contained in Inventory, Annual, and Seasonal Tables

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 PAIS

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:	581211	129256
# STORET Stations:	257	73
# Stations With No Data:	4	1
# Stations With No Stat. Analysis:	33	6
# Longer Term Stations:	54	3
Date of STORET Retrieval:	12/20/99	12/20/99
Period of Record:	05/01/41-09/23/98	05/01/41-09/23/98
# Parameters Measured:	337	155
# Water Quality Observations:	210665	181058
# Industrial/Municipal Facilities:	3	0
# Drinking Water Intakes:	0	0
# Water Gages:	0	0
# Water Impoundments:	0	0
# Total Plots:	226	3
# Time Series:	125	0
# Annual:	21	3
# Seasonal:	80	0

Hydrologic Definition of Seasons:

1. May 1 - October 31
2. November 1 - April 30

Time Series Plot Criteria:

To be included in the time series plots, a station/parameter combination must have at least 10 years and at least 50 observations.

Annual Analysis Criteria:

To be included in the annual box-and-whisker plots, a station/parameter combination must have at least 9 observations in each of at least 4 years.

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

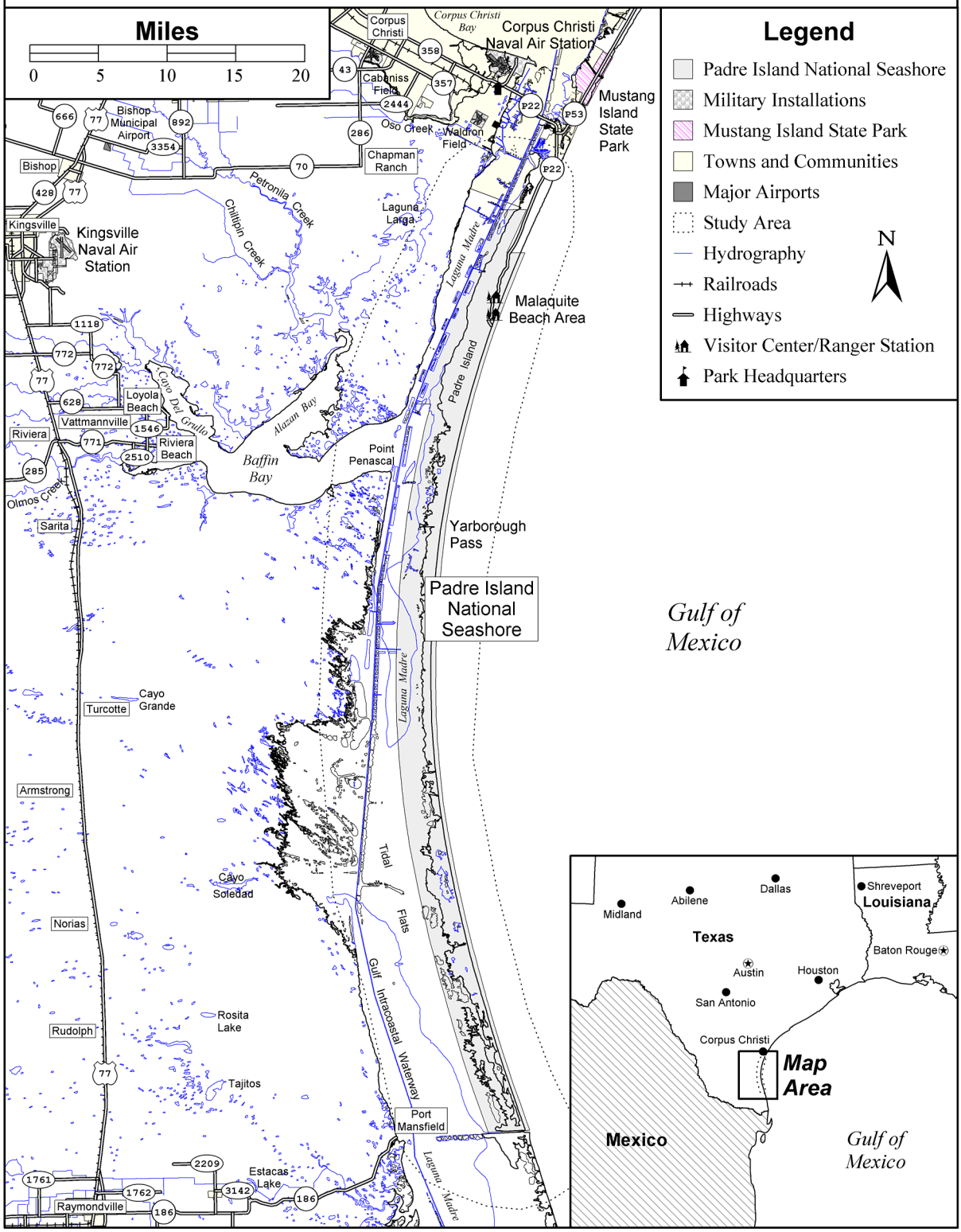
Seasonal Analysis Criteria:

To be included in the seasonal box-and-whisker plots, a station/parameter combination must have at least 9 observations in each of 2 seasons and a period of record of at least 20 years and observations in at least 4 of the 20 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.

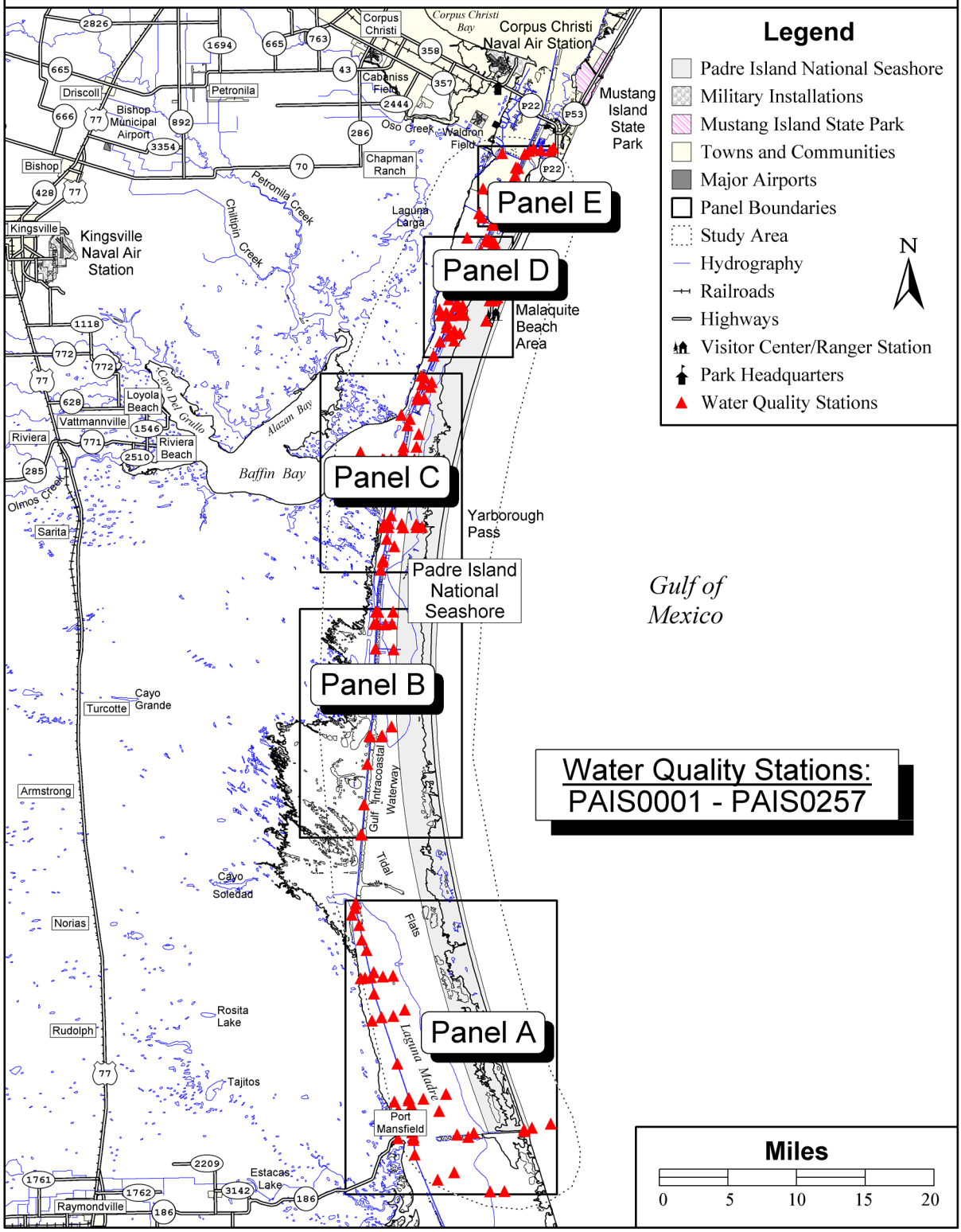
Padre Island National Seashore

Regional Location Map



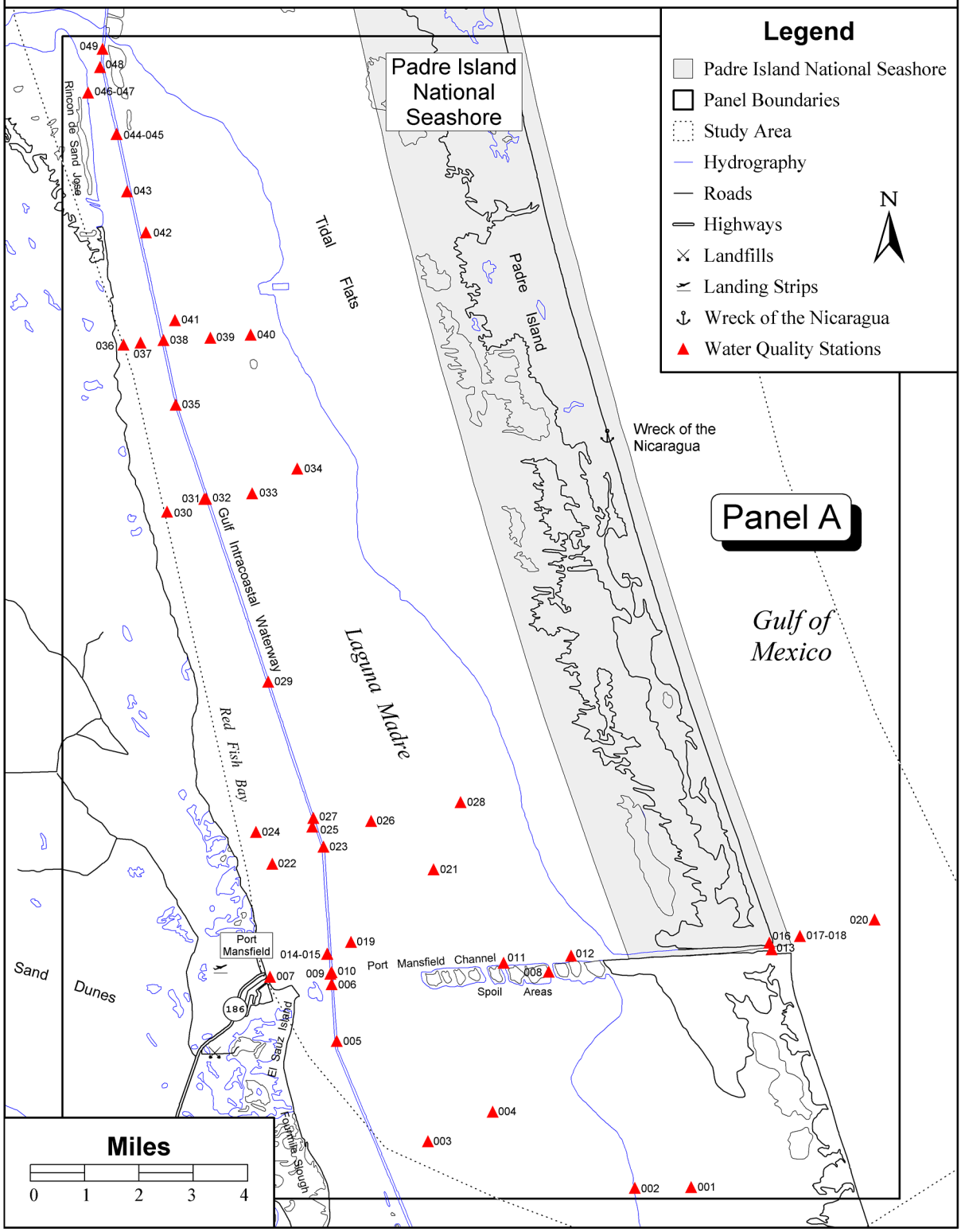
Padre Island National Seashore

Water Quality Monitoring Locations
Graphic Panel Index



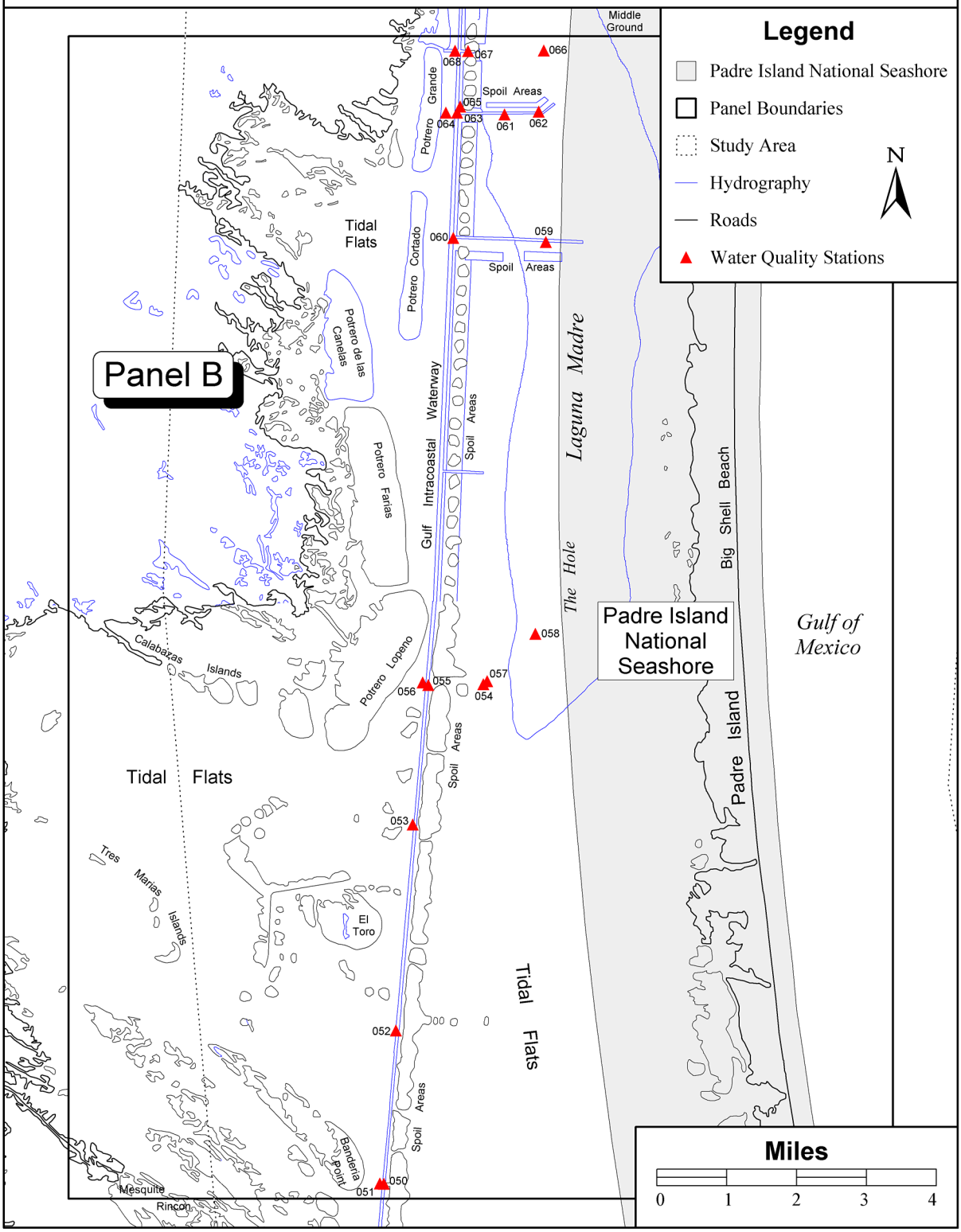
Padre Island National Seashore

Water Quality Monitoring Locations



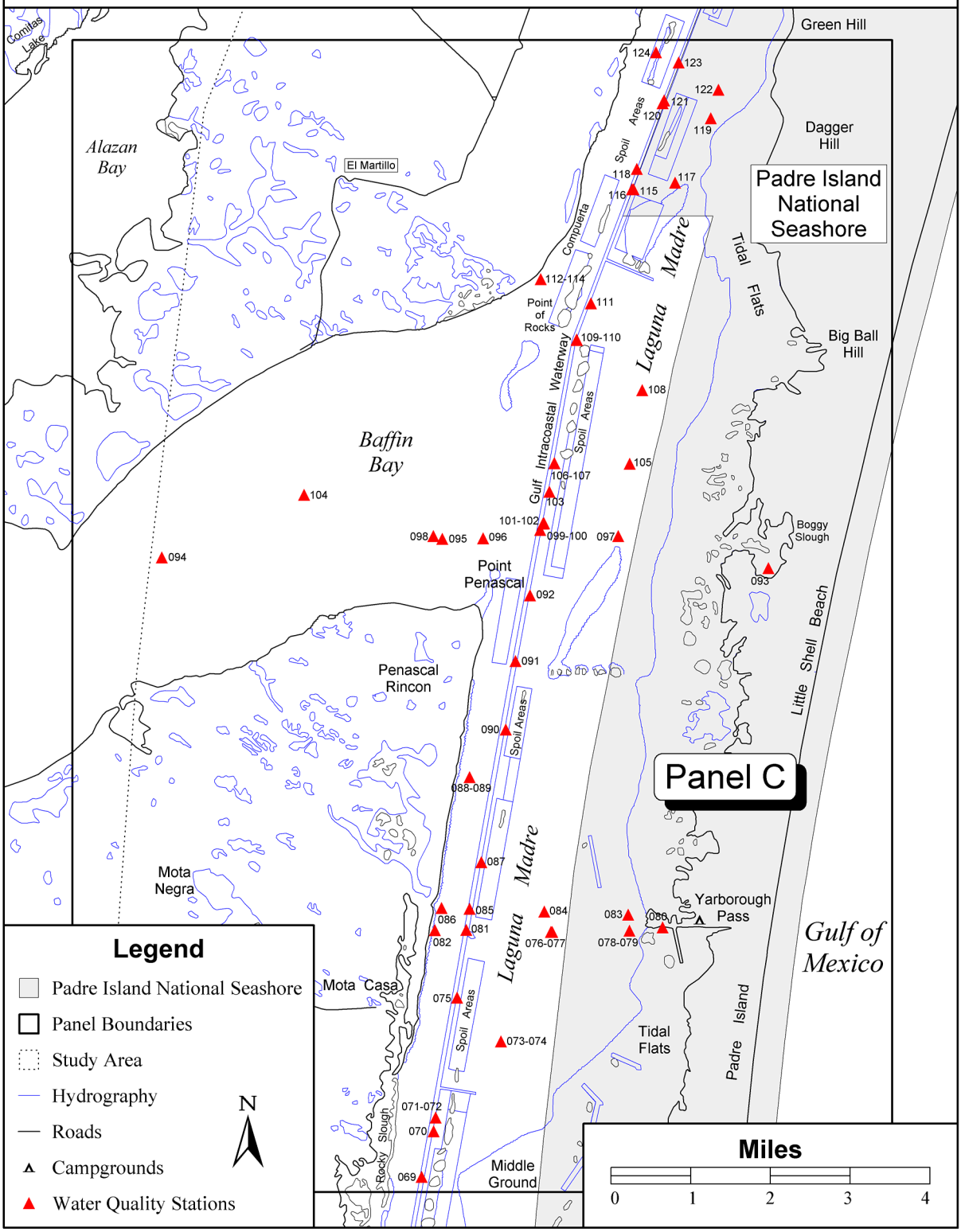
Padre Island National Seashore

Water Quality Monitoring Locations



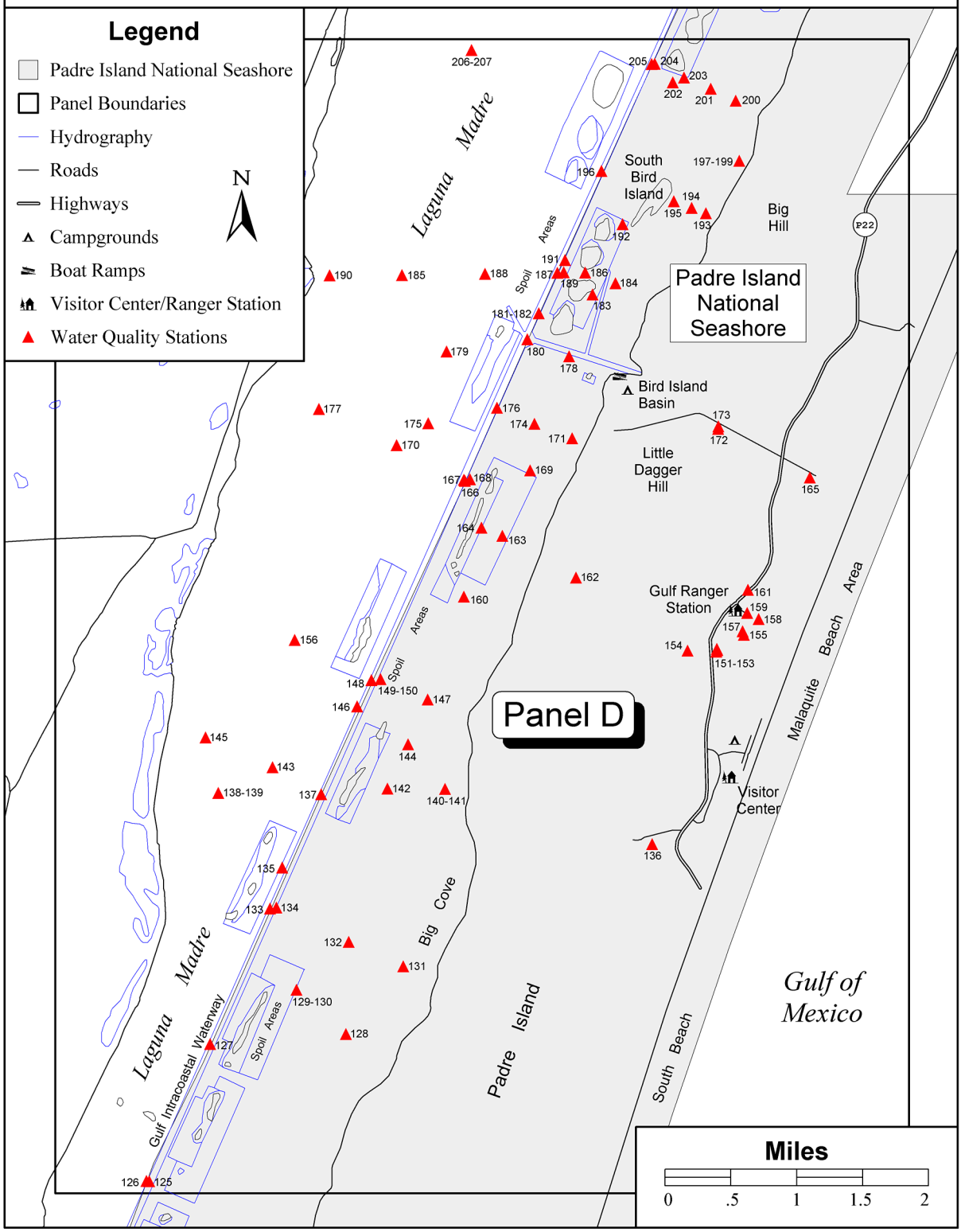
Padre Island National Seashore

Water Quality Monitoring Locations



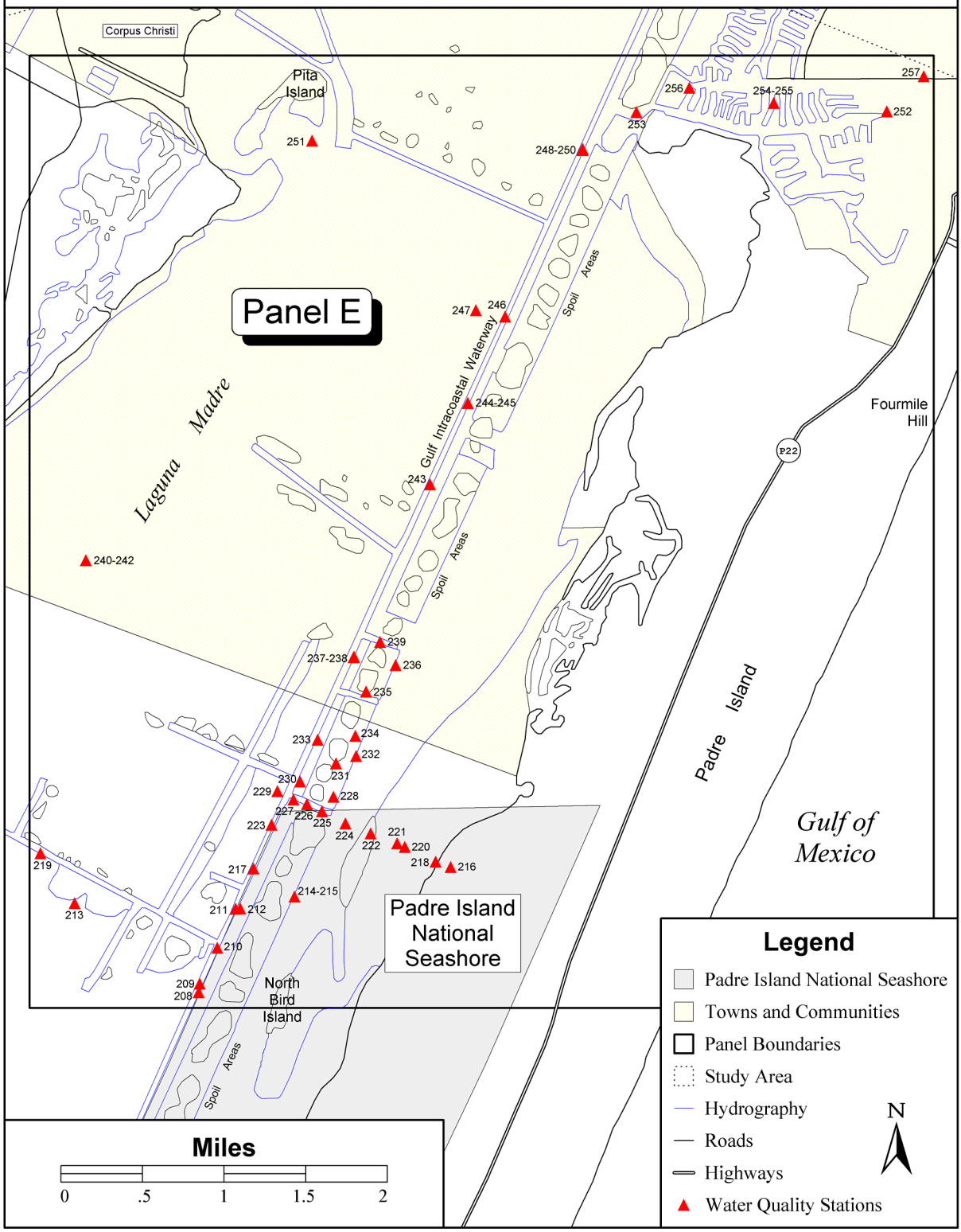
Padre Island National Seashore

Water Quality Monitoring Locations



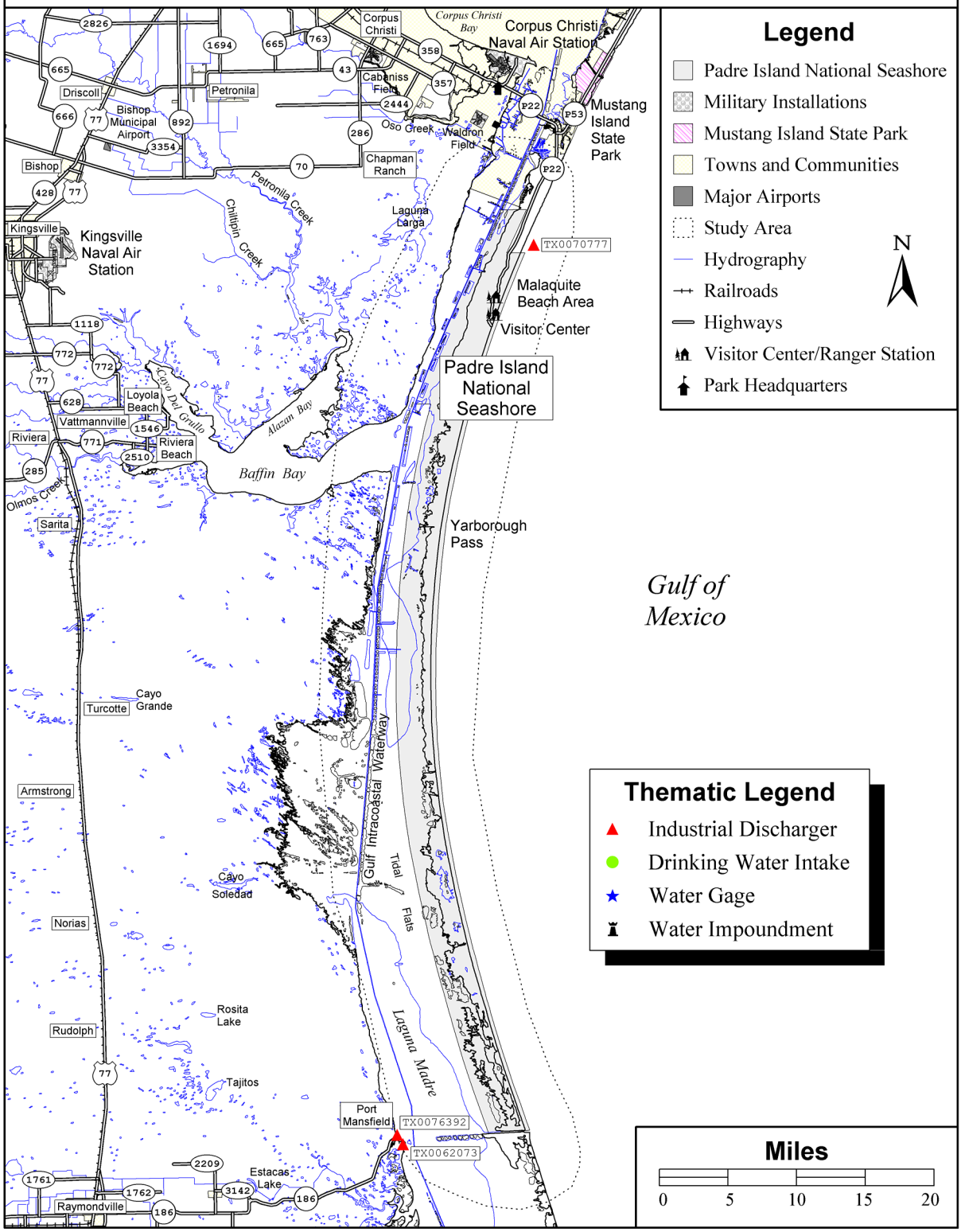
Padre Island National Seashore

Water Quality Monitoring Locations



Padre Island National Seashore

Dischargers, Drinking Intakes, Water Gages, & Water Impoundments



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

Industrial Facility Discharges

Site ID	Station/Facility Name	Address	City	Facility Receiving Water Name
TX0062073	RAYMONDVILLE COTTON OIL CO	.....	RAYMONDVILLE	GULF INTERCOASTAL WATERWAY
TX0070777	ATLANTIC RICHFIELD CO PADRE BL	N PADRE ISLAND AREA	GULF OF MEXICO	GULF OF MEXICO
TX0076392	PORT MANSFIELD PUD	295 EAST HIDALGO	RAYMONDVILLE	FOUR MILE SLOUGH/LAGUNA MADRE

Drinking Water Intakes

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

No drinking water intakes available for this study area.

Water Gages

Site ID	Station Name	Site Type	Drainage Area (Square Miles)	Begin Year	End Year

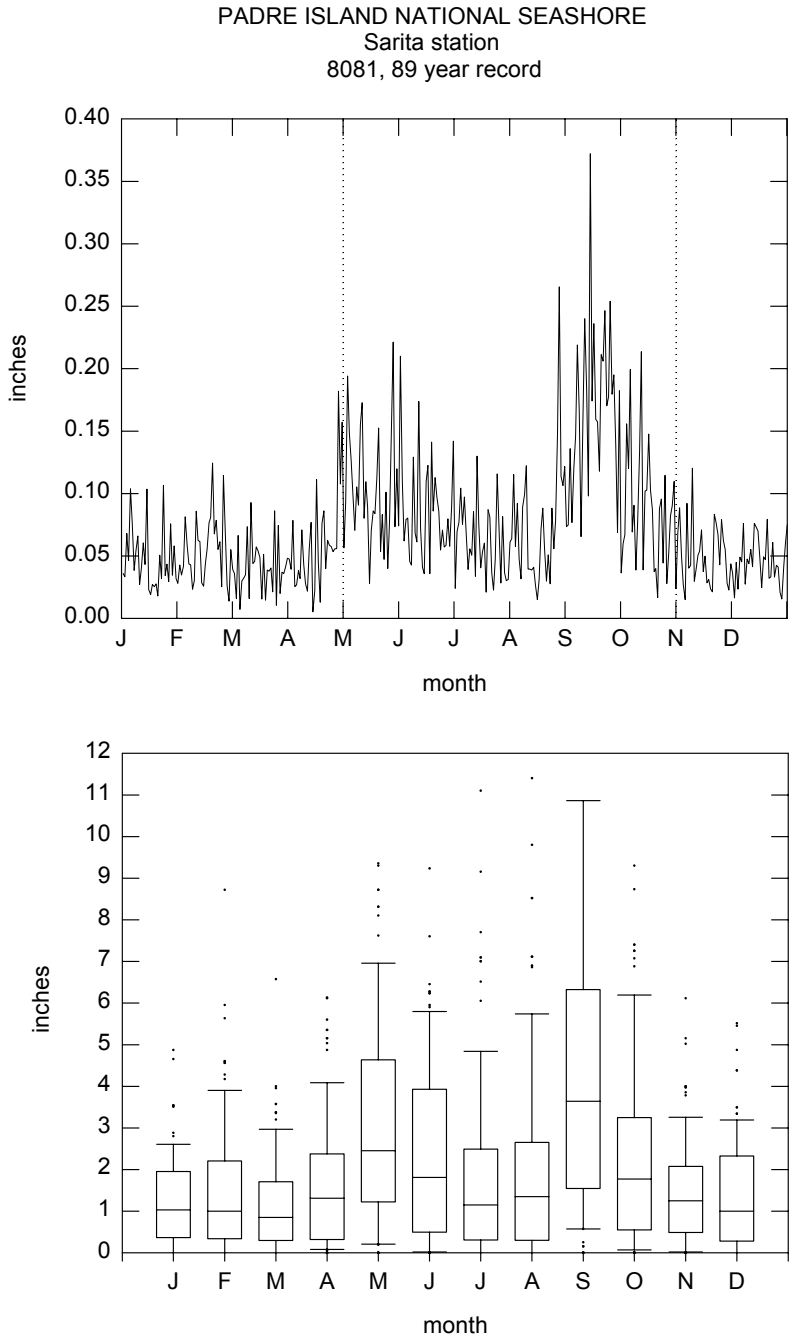
No stream flow gages available for this study area.

Water Impoundments

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

No water impoundments available for this study area.

REPRESENTATIVE PRECIPITATION PLOTS FOR SEASONAL ANALYSIS



Plot of average daily precipitation (top) and distribution of monthly precipitation (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 Padre Island National Seashore are: Nov. 1 to Apr. 30, and May 1 to Oct. 31.

CONTACTS FOR AGENCY CODES RETRIEVED FOR PAIS

AGENCY	PRIMARY CONTACT NAME	ORGANIZATION	PHONE NUMBER(S)	
21TXDOH	HOELMAN, LOUIS	USEPA HQ	(202)260-7050	
11NPSWRD	TUCKER, DEAN	NATIONAL PARK SERVICE	(970)225-3516	(970)225-3518
112WRD	BRIGGS, JOHN	US GEOLOGICAL SURVEY	(703)648-5624	
21TXWQB	DEACON, ROY	TEXAS WATER COMMISSION	(512)239-0870	
21TEXWR	HOELMAN, LOUIS	USEPA HQ	(202)260-7050	

* DATA FOR 21TEXWR HAS BEEN 'RETIRED' AT THE REQUEST OF STORET USER ASSISTANCE (800)424-9067 ON 05/20/97.

QUANTITY OF DATA RETRIEVED FOR PAIS BY AGENCY CODE

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

		Period of Record		Water Quality Stations		Longer Term[1] Stations		No Data Stations		Water Quality Observations		Water Quality Parameters	
Agency	Organization	Study Area	Park Only	S.A.	Park	S.A.	Park	S.A.	Park	S.A.	Park	S.A.	Park
21TXDOH	USEPA HQ	05/17/77-06/01/78	05/17/77-06/01/78	13	4	0	0	3	1	201	87	13	13
11NPSWRD	NATIONAL PARK SERVICE	05/01/41-09/23/98	05/01/41-09/23/98	200	65	19	0	0	0	183681	179848	104	59
112WRD	US GEOLOGICAL SURVEY	10/03/67-03/30/82	10/03/67-03/30/82	29	4	25	3	0	0	11218	1123	137	118
21TXWQB	TEXAS WATER COMMISSION	09/09/69-07/29/96	No Data in Park	8	0	6	0	0	0	15051	0	212	0
21TEXWR	USEPA HQ	09/30/70-06/06/78	No Data in Park	7	0	4	0	1	0	514	0	54	0
Totals		05/01/41-09/23/98	05/01/41-09/23/98	257	73	54	3	4	1	210665	181058	337	155

[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 05/01/41 To 09/23/98

Station Ident.	Location Description	In Park	Total Obs	01/01/85 to 09/23/98	01/01/75 to 12/31/84	Before 01/01/75
PAIS0001	LAGUNA MADRE SE OF PORT MANSFIELD	No	24	0	24	0
PAIS0002	LAGUNA MADRE SE OF PORT MANSFIELD	No	24	0	24	0
PAIS0003	LOWER LAGUNA MADRE TRANSECT 20 SITE 1	No	13	0	0	13
PAIS0004	1220301LAGUNA MADRE ES LINE 203 SITE 01	No	15	0	0	15
PAIS0005	LIGHT 289 ON THE INTRACOASTAL WATERWAY	No	10	0	0	10
PAIS0006	LOWER LAGUNA MADRE STATION 22	No	15	0	0	15
PAIS0007[1]	LOWER LAGUNA MADRE TRANSECT 19 SITE 4	No	140	0	0	140
PAIS0008	PORT MANSFIELD AT CHANNEL MARKER 25	No	54	0	54	0
PAIS0009[1]	LOWER LAGUNA MADRE TRANSECT 19 SITE 3	No	117	0	0	117
PAIS0010[1]	1219403LAGUNA MADRE ES LINE 194 SITE 03	No	324	0	52	272
PAIS0011[1]	LOWER LAGUNA MADRE TRANSECT 19 SITE 2	No	109	0	0	109
PAIS0012[1]	1219402LAGUNA MADRE ES LINE 194 SITE 02	No	493	0	213	280
PAIS0013[1]	LOWER LAGUNA MADRE TRANSECT 19 SITE 1	No	140	0	0	140
PAIS0014	LIGHT 282 ON THE INTRACOASTAL WATERWAY	No	10	0	0	10
PAIS0015[1]	PORT MANSFIELD CHANNEL & INTRACOASTAL WATERWAY	No	102	0	0	102
PAIS0016[1]	1219401LAGUNA MADRE ES LINE 194 SITE 01	Yes	291	0	0	291
PAIS0017	GULF OF MEXICO PORT MANSFIELD BEYOND JETTIES	No	0	0	0	0
PAIS0018[1]	GULF OF MEXICO AT PORT MANSFIELD JUST BEYOND JE	No	1578	392	809	377
PAIS0019[1]	LAGUNA MADRE AT GIWW	No	2551	1042	1122	387
PAIS0020[1]	1290290LAGUNA MADRE ES LINE 902 SITE 90	No	185	0	185	0
PAIS0021	SOUTH LAGUNA MADRE	No	5	0	0	5
PAIS0022[1]	1218803LAGUNA MADRE ES LINE 188 SITE 03	No	948	0	588	360
PAIS0023[1]	1218802LAGUNA MADRE ES LINE 188 SITE 02	No	774	0	563	211
PAIS0024[1]	LOWER LAGUNA MADRE TRANSECT 18 SITE 3	No	45	0	0	45
PAIS0025[1]	LOWER LAGUNA MADRE TRANSECT 18 SITE 2	No	104	0	0	104
PAIS0026[1]	LOWER LAGUNA MADRE TRANSECT 18 SITE 1	No	45	0	0	45
PAIS0027	LOWER LAGUNA MADRE STATION 23	No	13	0	0	13
PAIS0028[1]	1218801LAGUNA MADRE ES LINE 188 SITE 01	No	163	0	118	45
PAIS0029	LOWER LAGUNA MADRE STATION 24	No	13	0	0	13
PAIS0030[1]	1217503LAGUNA MADRE ES LINE 175 SITE 03	No	288	0	66	222
PAIS0031[1]	LOWER LAGUNA MADRE TRANSECT 17 SITE 2	No	84	0	0	84
PAIS0032[1]	1217502LAGUNA MADRE ES LINE 175 SITE 02	No	154	0	13	141
PAIS0033[1]	LOWER LAGUNA MADRE TRANSECT 17 SITE 1	No	65	0	0	65
PAIS0034	1217501LAGUNA MADRE ES LINE 175 SITE 01	No	106	0	35	71
PAIS0035	LOWER LAGUNA MADRE STATION 25	No	13	0	0	13
PAIS0036	ZONE 1 EAST FLAT BAR SEINE AREAS	No	26	0	0	26
PAIS0037	ZONE 1 EAST FLAT TRAWL AREAS	No	26	0	0	26
PAIS0038	ZONE 1 CHANNEL TRAWL AREAS	No	26	0	0	26
PAIS0039	ZONE 1 WEST FLAT TRAWL AREAS	No	26	0	0	26
PAIS0040	ZONE 1 WEST FLAT BAR SEINE AREAS	No	21	0	0	21
PAIS0041	LAGUNA MADRE,1.5 MI FROM COAST IN RED FISH BAY	No	6	0	6	0
PAIS0042	LAGUNA MADRE,1 MI OFF COAST IN RED FISH BAY	No	12	0	12	0
PAIS0043	LIGHT 229 ON THE INTRACOASTAL WATERWAY	No	10	0	0	10
PAIS0044[1]	LAGUNA MADRE CHANNEL MARKER C-225A NORTH OF PORT	No	1942	757	954	231
PAIS0045[1]	LAGUNA MADRE AT CHANNEL MARKER C-225A	No	134	0	115	19
PAIS0046	LAGUNA MADRE EAST OF RINCON DE SAN JOSE	No	0	0	0	0
PAIS0047	LAGUNA MADRE EAST OF RINCON DE SAN JOSE	No	6	0	6	0
PAIS0048[1]	LOWER LAGUNA MADRE TRANSECT 16 SITE 2	No	149	0	0	149
PAIS0049[1]	1216302LAGUNA MADRE ES LINE 163 SITE 02	No	773	0	306	467
PAIS0050[1]	1215702LAGUNA MADRE ES LINE 157 SITE 02	No	550	0	226	324
PAIS0051[1]	LAND CUT TRANSECT 15 SITE 2	No	183	0	0	183
PAIS0052	LAND CUT TRANSECT 14A SITE 2	No	6	0	0	6
PAIS0053[1]	MARKER C-225A NORTH OF PORT MANSFIELD	No	87	0	0	87
PAIS0054[1]	1214501LAGUNA MADRE ES LINE 145 SITE 01	No	111	0	59	52
PAIS0055[1]	1214502LAGUNA MADRE ES LINE 145 SITE 02	No	506	0	302	204
PAIS0056[1]	LAND CUT TRANSECT 14 SITE 2	No	121	0	0	121
PAIS0057[1]	LAND CUT TRANSECT 14 SITE 1	No	26	0	0	26
PAIS0058	LAGUNA MADRE	No	21	21	0	0
PAIS0059	STATION 203E IN THE LAGUNA MADRE	No	2	0	2	0
PAIS0060	STATION 203D IN THE LAGUNA MADRE	No	2	0	2	0
PAIS0061[1]	LAND CUT TRANSECT 13 SITE 1	No	51	0	0	51
PAIS0062[1]	1213401LAGUNA MADRE ES LINE 134 SITE 01	No	111	0	26	85
PAIS0063[1]	1213402LAGUNA MADRE ES LINE 134 SITE 02	No	315	0	53	262
PAIS0064[1]	LAND CUT TRANSECT 13 SITE 2	No	132	0	0	132
PAIS0065	MARKER 203 ON THE INTRACOASTAL WATERWAY	No	2	0	2	0
PAIS0066	STATION 203B IN THE LAGUNA MADRE	No	2	0	2	0
PAIS0067	STATION 203A IN THE LAGUNA MADRE	No	2	0	2	0
PAIS0068	STATION 203C IN THE LAGUNA MADRE	No	2	0	2	0
PAIS0069	LANDCUT ON THE INTRACOASTAL WATERWAY	No	45	0	0	45
PAIS0070	BEACON 175 ON THE INTRACOASTAL WATERWAY	No	2	0	2	0
PAIS0071	STATION 37 UPPER LAGUNA MADRE	No	45	0	0	45

Station Period of Record Tabulation
From 05/01/41 To 09/23/98

Station Ident.	Location Description	In Park	Total Obs	01/01/85 to 09/23/98	01/01/75 to 12/31/84	Before 01/01/75
PAIS0072	STATION 37 UPPER LAGUNA MADRE	No	5	0	0	5
PAIS0073	STATION 36 UPPER LAGUNA MADRE	No	45	0	0	45
PAIS0074	STATION 36 UPPER LAGUNA MADRE	No	5	0	0	5
PAIS0075	LIGHT 163 ON THE INTRACOASTAL WATERWAY	No	10	0	0	10
PAIS0076[1]	1212502LAGUNA MADRE ES LINE 125 SITE 02	No	87	0	87	0
PAIS0077	LAGUNA MADRE ESTUARY 125-2	No	61	0	61	0
PAIS0078	STATION 35 UPPER LAGUNA MADRE	Yes	45	0	0	45
PAIS0079	STATION 35 UPPER LAGUNA MADRE	Yes	7	0	0	7
PAIS0080[1]	1212501LAGUNA MADRE ES LINE 125	Yes	229	0	92	137
PAIS0081[1]	1212503LAGUNA MADRE ES LINE 125 SITE 03	No	1342	0	868	474
PAIS0082[1]	1212504LAGUNA MADRE ES LINE 125 SITE 04	No	576	0	140	436
PAIS0083	UPPER LAGUNA MADRE TRANSECT 12 SITE 1	Yes	48	0	0	48
PAIS0084	UPPER LAGUNA MADRE TRANSECT 12 SITE 2	No	19	0	0	19
PAIS0085	UPPER LAGUNA MADRE TRANSECT 12 SITE 3	No	80	0	0	80
PAIS0086	UPPER LAGUNA MADRE TRANSECT 12 SITE 4	No	26	0	0	26
PAIS0087	BEACON 151 ON THE INTRACOASTAL WATERWAY	No	2	0	2	0
PAIS0088	STATION 34 UPPER LAGUNA MADRE	No	45	0	0	45
PAIS0089	STATION 34 UPPER LAGUNA MADRE	No	5	0	0	5
PAIS0090	BEACON 139 ON THE INTRACOASTAL WATERWAY	No	4	0	4	0
PAIS0091	LIGHT 133 ON THE INTRACOASTAL WATERWAY	No	10	0	0	10
PAIS0092	BEACON 127 ON THE INTRACOASTAL WATERWAY	No	2	0	2	0
PAIS0093	EAST BAFFIN BAY WEST OF GRIFFINS POINT	Yes	24	0	24	0
PAIS0094	EAST BAFFIN BAY EAST OF NEGROHEAD POINT	No	12	0	12	0
PAIS0095	BAFFIN BAY	No	4	0	4	0
PAIS0096[1]	1211903LAGUNA MADRE ES LINE 119 SITE 03	No	355	0	92	263
PAIS0097	STATION 115A IN THE LAGUNA MADRE	No	2	0	2	0
PAIS0098	BAFFIN BAY TRANSECT 11 SITE 3	No	114	0	0	114
PAIS0099[1]	LAGUNA MADRE MARKER 121 MOUTH OF BAFFIN BAY	No	97	0	77	20
PAIS0100[1]	LAGUNA MADRE ICWW/BAFFIN BAY	No	2633	1351	1005	277
PAIS0101[1]	MARKER 121 MOUTH OF BAFFIN BAY	No	99	0	0	99
PAIS0102	LIGHT 121 ON INTRACOASTAL WATERWAY	No	2	0	0	2
PAIS0103	INTRACOSTAL MKR C121	No	20	0	0	20
PAIS0104	BAFFIN BAY AT MKR 20	No	16	0	0	16
PAIS0105	STATION 101B IN THE LAGUNA MADRE	No	2	0	2	0
PAIS0106	LIGHT 115 ON INTRACOASTAL WATERWAY	No	2	0	0	2
PAIS0107	BEACON 115 ON THE INTRACOASTAL WATERWAY	No	6	0	6	0
PAIS0108	STATION 101A IN THE LAGUNA MADRE	No	2	0	2	0
PAIS0109	BEACON 103 ON THE INTRACOASTAL WATERWAY	No	4	0	4	0
PAIS0110	LIGHT 103 ON INTRACOASTAL WATERWAY	No	2	0	0	2
PAIS0111	MARKER 101 ON THE INTRACOASTAL WATERWAY	No	2	0	2	0
PAIS0112	STATION 32 UPPER LAGUNA MADRE	No	50	0	0	50
PAIS0113	STATION 32 UPPER LAGUNA MADRE	No	45	0	0	45
PAIS0114	STATION 32 UPPER LAGUNA MADRE	No	7	0	0	7
PAIS0115	LIGHT 95 ON INTRACOASTAL WATERWAY	Yes	2	0	0	2
PAIS0116	BEACON 95 ON THE INTRACOASTAL WATERWAY	No	4	0	4	0
PAIS0117	UPPER LAGUNA MADRE TRANSECT 5 SITE 1	Yes	30	0	0	30
PAIS0118	UPPER LAGUNA MADRE TRANSECT 5 SITE 2	No	118	0	0	118
PAIS0119[1]	1205301LAGUNA MADRE ES LINE 053 SITE 01	Yes	573	0	419	154
PAIS0120	LIGHT 91 ON THE INTRACOASTAL WATERWAY	No	10	0	0	10
PAIS0121[1]	1205302LAGUNA MADRE ES LINE 053 SITE 02	No	788	0	380	408
PAIS0122	STATION 89B IN THE LAGUNA MADRE	Yes	2	0	2	0
PAIS0123	BEACON 89 ON THE INTRACOASTAL WATERWAY	No	6	0	6	0
PAIS0124	STATION 89A IN THE LAGUNA MADRE	No	2	0	2	0
PAIS0125	LIGHT 83 ON INTRACOASTAL WATERWAY	Yes	2	0	0	2
PAIS0126	BEACON 83 ON THE INTRACOASTAL WATERWAY	No	4	0	4	0
PAIS0127	LIGHT 79 ON THE INTRACOASTAL WATERWAY	No	10	0	0	10
PAIS0128	LAGUNA MADRE BAY,6.5 MI SO OF SOUTH BIRD ISLAND	Yes	6	0	6	0
PAIS0129	STATION 31 UPPER LAGUNA MADRE	Yes	50	0	0	50
PAIS0130	STATION 31 UPPER LAGUNA MADRE	Yes	13	0	0	13
PAIS0131	STATION 75B IN THE LAGUNA MADRE	Yes	2	0	2	0
PAIS0132	STATION 75A IN THE LAGUNA MADRE	Yes	2	0	2	0
PAIS0133	BEACON 75 ON THE INTRACOASTAL WATERWAY	No	10	0	10	0
PAIS0134	LIGHT 75 ON INTRACOASTAL WATERWAY	Yes	2	0	0	2
PAIS0135	UPPER LAGUNA MADRE TRANSECT 4 SITE 2	No	50	0	0	50
PAIS0136	POND C NEAR END OF PARK ROAD TO WASTE DUMP	Yes	86	86	0	0
PAIS0137	MARKER 72 ON THE INTRACOASTAL WATERWAY	No	2	0	2	0
PAIS0138	STATION 30 UPPER LAGUNA MADRE	No	55	0	0	55
PAIS0139	STATION 30 UPPER LAGUNA MADRE	No	12	0	0	12
PAIS0140	STATION 29 UPPER LAGUNA MADRE	Yes	60	0	0	60
PAIS0141	STATION 29 UPPER LAGUNA MADRE	Yes	12	0	0	12
PAIS0142	STATION 71A IN THE LAGUNA MADRE	Yes	2	0	2	0

Station Period of Record Tabulation
From 05/01/41 To 09/23/98

Station Ident.	Location Description	In Park	Total Obs	01/01/85 to 09/23/98	01/01/75 to 12/31/84	Before 01/01/75
PAIS0143	STATION 72B IN THE LAGUNA MADRE	No	2	0	2	0
PAIS0144	STATION 70A IN THE LAGUNA MADRE	Yes	2	0	2	0
PAIS0145	STATION 72A IN THE LAGUNA MADRE	No	2	0	2	0
PAIS0146[1]	1204402LAGUNA MADRE ES LINE 044 SITE 02	No	226	0	52	174
PAIS0147	STATION 69B IN THE LAGUNA MADRE	Yes	4	0	4	0
PAIS0148	BEACON 69 ON THE INTRACOASTAL WATERWAY	No	8	0	8	0
PAIS0149	MARKER 59 ON THE INTRACOASTAL WATERWAY	Yes	36	0	0	36
PAIS0150	LIGHT 69 ON INTRACOASTAL WATERWAY	Yes	2	0	0	2
PAIS0151	POND NEAR BIRD ISLAND ROAD (PADRE ISLAND 2)	Yes	20	20	0	0
PAIS0152	POND B OFF MAIN ROAD SOUTH OF RANGER STATION	Yes	86	86	0	0
PAIS0153	PERMANENT POND 0.4 MILE SOUTH OF RANGER STATION	Yes	17	0	17	0
PAIS0154	EPHEMERAL POND 400 YARDS WEST OF PP3	Yes	15	0	15	0
PAIS0155	EPHEMERAL POND 500 FEET SE FROM SEPTIC DRAIN	Yes	13	0	13	0
PAIS0156	STATION 69A IN THE LAGUNA MADRE	No	4	0	4	0
PAIS0157	EPHEMERAL POND 400 FEET SE FROM SEPTIC DRAIN	Yes	14	0	14	0
PAIS0158	PERMANENT POND 700 FEET EAST FROM SEPTIC DRAIN	Yes	17	0	17	0
PAIS0159	EPHEMERAL POND 500 FEET NE OF SEPTIC DRAIN	Yes	15	0	15	0
PAIS0160	LAGUNA MADRE,3 MI SO OF SO BIRD ISLAND	Yes	57	0	57	0
PAIS0161	EPHEMERAL POND 0.25 MILE NNW OF RANGER STATION	Yes	15	0	15	0
PAIS0162	LAGUNA MADRE,2 MILES SOUTH OF SOUTH BIRD ISLAND	Yes	0	0	0	0
PAIS0163	STATION 64B IN THE LAGUNA MADRE	Yes	2	0	2	0
PAIS0164	STATION 64A IN THE LAGUNA MADRE	Yes	2	0	2	0
PAIS0165	POND NEAR RANGER STATION (PADRE ISLAND 1)	Yes	24	24	0	0
PAIS0166	BEACON 63 ON THE INTRACOASTAL WATERWAY	No	5	0	5	0
PAIS0167	LIGHT 63 ON THE INTRACOASTAL WATERWAY	No	10	0	0	10
PAIS0168	LIGHT 63 ON INTRACOASTAL WATERWAY	Yes	2	0	0	2
PAIS0169	STATION 62A IN THE LAGUNA MADRE	Yes	2	0	2	0
PAIS0170	STATION 63B IN THE LAGUNA MADRE	No	2	0	2	0
PAIS0171	STATION 61B IN THE LAGUNA MADRE	Yes	2	0	2	0
PAIS0172	POND A NEAR BIRD ISLAND ROAD	Yes	86	86	0	0
PAIS0173	PERMANENT POND BESIDE BIRD ISLAND ROAD	Yes	2	0	2	0
PAIS0174	STATION 61A IN THE LAGUNA MADRE	Yes	2	0	2	0
PAIS0175	LAGUNA MADRE OFF ICW CM 123	No	273	273	0	0
PAIS0176	MARKER 61 ON THE INTRACOASTAL WATERWAY	No	2	0	2	0
PAIS0177	STATION 63A IN THE LAGUNA MADRE	No	2	0	2	0
PAIS0178	STATION 59A IN THE LAGUNA MADRE	Yes	2	0	2	0
PAIS0179	NORTH LAGUNA MADRE	No	5	0	0	5
PAIS0180	MARKER 59 ON THE INTRACOASTAL WATERWAY	No	2	0	2	0
PAIS0181[1]	LAGUNA MADRE INTRACOASTAL WATERWAY MARKER 59	No	160	0	130	30
PAIS0182[1]	LAGUNA MADRE ICWW/BIRD ISLAND	No	3510	1949	1389	172
PAIS0183	STATION 57B IN THE LAGUNA MADRE	Yes	2	0	2	0
PAIS0184	STATION 57C IN THE LAGUNA MADRE	Yes	2	0	2	0
PAIS0185	STATION 58B IN THE LAGUNA MADRE	No	2	0	2	0
PAIS0186	STATION 57A IN THE LAGUNA MADRE	Yes	2	0	2	0
PAIS0187	BEACON 57 ON THE INTRACOASTAL WATERWAY	No	9	0	9	0
PAIS0188	STATION 58C IN THE LAGUNA MADRE	No	2	0	2	0
PAIS0189	LIGHT 57 ON INTRACOASTAL WATERWAY	Yes	2	0	0	2
PAIS0190	STATION 58A IN THE LAGUNA MADRE	No	1	0	1	0
PAIS0191	BIRD ISLAND BASIN (HYDROLAB SITE)	Yes	178856	178856	0	0
PAIS0192	STATION 55A IN THE LAGUNA MADRE	Yes	2	0	2	0
PAIS0193	STATION 54C IN THE LAGUNA MADRE	Yes	2	0	2	0
PAIS0194	STATION 54B IN THE LAGUNA MADRE	Yes	2	0	2	0
PAIS0195	STATION 54A IN THE LAGUNA MADRE	Yes	2	0	2	0
PAIS0196	MARKER 54 ON THE INTRACOASTAL WATERWAY	No	2	0	2	0
PAIS0197	STATION 28 UPPER LAGUNA MADRE	Yes	51	0	0	51
PAIS0198	STATION 28 UPPER LAGUNA MADRE	Yes	55	0	0	55
PAIS0199	STATION 28 UPPER LAGUNA MADRE	Yes	19	0	0	19
PAIS0200	STATION 51C IN THE LAGUNA MADRE	Yes	2	0	2	0
PAIS0201	STATION 51B IN THE LAGUNA MADRE	Yes	2	0	2	0
PAIS0202	2114711NUECES ES LINE 147 SITE 11	Yes	30	0	0	30
PAIS0203	STATION 51A IN THE LAGUNA MADRE	Yes	2	0	2	0
PAIS0204	LIGHT 51 ON INTRACOASTAL WATERWAY	Yes	2	0	0	2
PAIS0205	BEACON 51 ON THE INTRACOASTAL WATERWAY	No	6	0	6	0
PAIS0206	STATION 27 UPPER LAGUNA MADRE	No	60	0	0	60
PAIS0207	STATION 27 UPPER LAGUNA MADRE	No	21	0	0	21
PAIS0208	MARKER 47 ON THE INTRACOASTAL WATERWAY	No	2	0	2	0
PAIS0209[1]	UPPER LAGUNA MADRE TRANSECT 3 SITE 1	No	173	0	0	173
PAIS0210[1]	1203401LAGUNA MADRE ES LINE 034 SITE 01	No	523	0	227	296
PAIS0211	BEACON 45 ON THE INTRACOASTAL WATERWAY	No	10	0	10	0
PAIS0212	LIGHT 45 ON INTRACOASTAL WATERWAY	Yes	2	0	0	2
PAIS0213	UPPER LAGUNA MADRE TRANSECT 3 SITE 2	No	36	0	0	36

Station Period of Record Tabulation
From 05/01/41 To 09/23/98

Station Ident.	Location Description	In Park	Total Obs	01/01/85 to 09/23/98	01/01/75 to 12/31/84	Before 01/01/75
PAIS0214	STATION 26 UPPER LAGUNA MADRE	Yes	60	0	0	60
PAIS0215	STATION 26 UPPER LAGUNA MADRE	Yes	20	0	0	20
PAIS0216	STATION 42K IN THE LAGUNA MADRE	Yes	2	0	2	0
PAIS0217	MARKER 44 ON THE INTRACOASTAL WATERWAY	No	2	0	2	0
PAIS0218	STATION 42H IN THE LAGUNA MADRE	Yes	2	0	2	0
PAIS0219[1]	1203402LAGUNA MADRE ES LINE 034 SITE 02	No	321	0	202	119
PAIS0220	STATION 42G IN THE LAGUNA MADRE	Yes	2	0	2	0
PAIS0221	STATION 42J IN THE LAGUNA MADRE	Yes	2	0	2	0
PAIS0222	STATION 42F IN THE LAGUNA MADRE	Yes	2	0	2	0
PAIS0223	MARKER 43 ON THE INTRACOASTAL WATERWAY	No	8	0	8	0
PAIS0224	STATION 42E IN THE LAGUNA MADRE	Yes	2	0	2	0
PAIS0225	STATION 42D IN THE LAGUNA MADRE	Yes	2	0	2	0
PAIS0226	STATION 42C IN THE LAGUNA MADRE	No	4	0	4	0
PAIS0227	STATION 42B IN THE LAGUNA MADRE	No	2	0	2	0
PAIS0228	STATION 42I IN THE LAGUNA MADRE	No	2	0	2	0
PAIS0229	STATION 42A IN THE LAGUNA MADRE	No	2	0	2	0
PAIS0230	MARKER 42 ON THE INTRACOASTAL WATERWAY	No	4	0	4	0
PAIS0231	STATION 41A IN THE LAGUNA MADRE	No	2	0	2	0
PAIS0232	STATION 40B IN THE LAGUNA MADRE	No	2	0	2	0
PAIS0233	MARKER 41 ON THE INTRACOASTAL WATERWAY	No	4	0	4	0
PAIS0234	STATION 40A IN THE LAGUNA MADRE	No	2	0	2	0
PAIS0235	STATION 39A IN THE LAGUNA MADRE	No	2	0	2	0
PAIS0236	STATION 38B IN THE LAGUNA MADRE	No	2	0	2	0
PAIS0237	LIGHT 39 ON INTRACOASTAL WATERWAY	No	2	0	0	2
PAIS0238	BEACON 39 ON THE INTRACOASTAL WATERWAY	No	8	0	8	0
PAIS0239	STATION 38A IN THE LAGUNA MADRE	No	2	0	2	0
PAIS0240	STATION 25 UPPER LAGUNA MADRE	No	53	0	0	53
PAIS0241	STATION 25 UPPER LAGUNA MADRE	No	59	0	0	59
PAIS0242	STATION 25 UPPER LAGUNA MADRE	No	19	0	0	19
PAIS0243	MARKER 35 ON THE INTRACOASTAL WATERWAY	No	2	0	2	0
PAIS0244	BEACON 33 ON THE INTRACOASTAL WATERWAY	No	4	0	4	0
PAIS0245	LIGHT 33 ON INTRACOASTAL WATERWAY	No	2	0	0	2
PAIS0246	LIGHT 31 ON THE INTRACOASTAL WATERWAY	No	10	0	0	10
PAIS0247	LAGUNA MADRE,1 MI OFF COAST OF PADRE ISLAND	No	0	0	0	0
PAIS0248	LIGHT 27 ON THE INTRACOASTAL WATERWAY	No	10	0	0	10
PAIS0249	BEACON 27 ON THE INTRACOASTAL WATERWAY	No	4	0	4	0
PAIS0250	LIGHT 27 ON INTRACOASTAL WATERWAY	No	2	0	0	2
PAIS0251	LAGUNA MADRE BAY OFF PITA ISLAND	No	30	0	30	0
PAIS0252	RESIDENCE CANAL SOUTH OF UTILITY ROAD	No	69	0	0	69
PAIS0253	AT CORNER OF UTILITY COMPLEX ISLAND	No	101	0	0	101
PAIS0254[1]	LAGUNA MADRE CSTL WATERWAY + PADRE ISLE CAUSEWAY	No	87	0	87	0
PAIS0255[1]	LAGUNA MADRE ICWW/PADRE I.CSWY	No	2510	1385	1125	0
PAIS0256	INLAND OF UTILITY COMPLEX ISLAND	No	102	0	0	102
PAIS0257	CANAL BETWEEN GOLF COURSE AND ROAD	No	36	0	0	36

[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 05/01/41 To 09/23/98

Parameter Code	Name	Total Obs	01/01/85 to 09/23/98	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	3000	843	1156	1001	80	9
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	46846	44657	1032	1157	188	46
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	566	41	410	115	16	1
00024	SAMPLE LENGTH IN INCHES	23	0	23	0	7	3
00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	66	0	66	0	13	1
00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	115	0	115	0	16	1
00032	CLOUD COVER (PERCENT)	5	0	5	0	1	0
00037	WIND FORCE (BEAUFORT UNITS)	4	0	4	0	1	0
00040	WIND DIRECTION, AZIMUTH	1	0	1	0	1	0
00061	FLOW, STREAM, INSTANTANEOUS CFS	1	1	0	0	1	0
00070	TURBIDITY, (JACKSON CANDLE UNITS)	670	0	201	469	48	8
00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	10	0	0	10	2	0
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	36	36	0	0	3	3
00077	TRANSPARENCY, SECCHI DISC (INCHES)	199	89	110	0	6	0
00078	TRANSPARENCY, SECCHI DISC (METERS)	530	157	152	221	61	5
00080	COLOR (PLATINUM-COBALT UNITS)	1	0	0	1	1	0
00090	OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	10	0	0	10	4	0
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	45483	44721	450	312	49	12
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	1482	49	664	769	59	5
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	37514	37209	47	258	34	5
00300	OXYGEN, DISSOLVED MG/L	2295	575	846	874	70	20
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	1367	0	472	895	60	7
00310	BOD, 5 DAY, 20 DEG C MG/L	255	2	47	206	43	7
00335	COD, .025N K2CR2O7 MG/L	8	0	0	8	4	1
00339	COD, BOTTOM DEPOSITS, DRY WEIGHT MG/KG	4	0	3	1	1	0
00340	COD, .25N K2CR2O7 MG/L	2	2	0	0	2	2
00400	PH (STANDARD UNITS)	2188	510	864	814	62	9
00403	PH, LAB, STANDARD UNITS SU	353	52	195	106	14	1
00405	CARBON DIOXIDE (MG/L AS CO2)	53	0	29	24	13	2
00406	PH, FIELD, STANDARD UNITS SU	9577	9316	7	254	40	15
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	456	215	211	30	28	11
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	2	2	0	0	2	0
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	33	33	0	0	3	3
00440	BICARBONATE ION (MG/L AS HCO3)	83	0	38	45	26	2
00445	CARBONATE ION (MG/L AS CO3)	34	0	30	4	13	1
00480	SALINITY - PARTS PER THOUSAND	45223	44497	125	601	148	44
00496	LOSS ON IGNITION, BOTTOM DEPOSITS (MG/KG)	13	5	8	0	2	0
00510	RESIDUE, TOTAL FIXED (MG/L)	1	0	0	1	1	0
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	475	215	194	66	8	2
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	470	215	194	61	8	2
00544	RESIDUE, VOLATILE SETTLEABLE (MG/L)	1	0	1	0	1	0
00557	OIL & GREASE,SED,DRY WT,FREON EXTR-GRAV METH,MG/KG	12	4	8	0	2	0
00561	OIL & GREASE, SED, DRY WT,FREON EXTR-IR METH,MG/KG	4	1	2	1	1	0
00600	NITROGEN, TOTAL (MG/L AS N)	97	0	87	10	15	1
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	103	0	93	10	15	1
00607	NITROGEN, ORGANIC, DISSOLVED (MG/L AS N)	6	0	6	0	6	6
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	7	0	7	0	7	7
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	710	215	310	185	39	5
00612	AMMONIA, UNIONZED (MG/L AS N)	37	0	0	37	4	1
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	7	0	7	0	7	7
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	414	93	202	119	36	3
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	7	0	7	0	7	7
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	715	180	290	245	49	9
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	6	0	6	0	6	6
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	175	66	99	10	26	6
00626	NITROGEN,ORG. KJEL.,BOT. DEPOS. (MG/KG-N DRY WGT)	10	5	4	1	1	0
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	170	35	101	34	25	3
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	351	27	203	121	29	5
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	359	21	185	153	39	3
00665	PHOSPHORUS, TOTAL (MG/L AS P)	731	215	307	209	44	7
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	16	5	10	1	2	0
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	543	211	184	148	41	7
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	499	195	268	36	21	3
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	2	0	2	0	2	0
00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	2	0	2	0	2	0
00721	CYANIDE IN BOTTOM DEPOSITS (MG/KG AS CN DRY WGT)	1	0	1	0	1	0
00900	HARDNESS, TOTAL (MG/L AS CACO3)	79	0	46	33	13	2
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	89	0	46	43	23	2
00915	CALCIUM, DISSOLVED (MG/L AS CA)	92	0	46	46	23	2
00916	CALCIUM, TOTAL (MG/L AS CA)	28	0	4	24	7	0
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	92	0	46	46	23	2

Parameter Period of Record Tabulation
From 05/01/41 To 09/23/98

Parameter Code	Name	Total Obs	01/01/85 to 09/23/98	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
00927	MAGNESIUM, TOTAL (MG/L AS MG)	28	0	4	24	7	0
00929	SODIUM, TOTAL (MG/L AS NA)	4	0	4	0	3	0
00930	SODIUM, DISSOLVED (MG/L AS NA)	65	0	52	13	17	7
00931	SODIUM ADSORPTION RATIO	62	0	46	16	11	1
00932	SODIUM, PERCENT	58	0	46	12	10	1
00933	SODIUM,PLUS POTASSIUM (MG/L)	42	0	6	36	21	2
00935	POTASSIUM, DISSOLVED (MG/L AS K)	62	0	53	9	17	8
00940	CHLORIDE,TOTAL IN WATER MG/L	589	218	239	132	36	4
00941	CHLORIDE, DISSOLVED IN WATER MG/L	41	0	31	10	15	7
00945	SULFATE, TOTAL (MG/L AS SO4)	560	215	240	105	32	4
00946	SULFATE, DISSOLVED (MG/L AS SO4)	2	0	0	2	2	0
00950	FLUORIDE, DISSOLVED (MG/L AS F)	66	0	46	20	17	2
00955	SILICA, DISSOLVED (MG/L AS SI02)	184	0	46	138	35	5
01000	ARSENIC, DISSOLVED (UG/L AS AS)	11	3	1	7	9	4
01002	ARSENIC, TOTAL (UG/L AS AS)	10	0	3	7	9	1
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	16	5	10	1	3	0
01004	ARSENIC TOTAL IN FISH OR ANIMAL WET WT MG/KG	8	6	2	0	2	0
01007	BARIUM, TOTAL (UG/L AS BA)	8	0	3	5	7	0
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	13	5	8	0	2	0
01020	BORON, DISSOLVED (UG/L AS B)	17	0	0	17	12	1
01022	BORON, TOTAL (UG/L AS B)	3	0	0	3	3	0
01023	BORON IN BOTTOM DEPOSITS (MG/KG AS B DRY WGT)	4	0	4	0	1	0
01025	CADMIUM, DISSOLVED (UG/L AS CD)	25	3	1	21	17	5
01027	CADMIUM, TOTAL (UG/L AS CD)	12	0	3	9	9	1
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	16	5	10	1	3	0
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	16	5	10	1	2	0
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	23	3	1	19	17	5
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	1	0	0	1	1	0
01034	CHROMIUM, TOTAL (UG/L AS CR)	10	0	3	7	9	1
01035	COBALT, DISSOLVED (UG/L AS CO)	7	0	1	6	6	1
01037	COBALT, TOTAL (UG/L AS CO)	2	0	0	2	2	1
01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	1	0	1	0	1	0
01040	COPPER, DISSOLVED (UG/L AS CU)	25	3	1	21	17	5
01042	COPPER, TOTAL (UG/L AS CU)	29	0	3	26	13	1
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	17	5	11	1	3	0
01045	IRON, TOTAL (UG/L AS FE)	45	0	3	42	23	2
01046	IRON, DISSOLVED (UG/L AS FE)	11	3	1	7	9	4
01049	LEAD, DISSOLVED (UG/L AS PB)	25	3	1	21	17	5
01051	LEAD, TOTAL (UG/L AS PB)	12	0	3	9	9	1
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	17	5	11	1	3	0
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	17	5	11	1	3	0
01055	MANGANESE, TOTAL (UG/L AS MN)	10	0	3	7	9	1
01056	MANGANESE, DISSOLVED (UG/L AS MN)	34	0	1	33	20	2
01065	NICKEL, DISSOLVED (UG/L AS NI)	7	0	1	6	6	1
01067	NICKEL, TOTAL (UG/L AS NI)	8	0	3	5	7	0
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	16	5	10	1	2	0
01077	SILVER, TOTAL (UG/L AS AG)	8	0	3	5	7	0
01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	15	4	10	1	2	0
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	20	3	1	16	14	5
01082	STRONTIUM, TOTAL (UG/L AS SR)	17	0	0	17	9	0
01090	ZINC, DISSOLVED (UG/L AS ZN)	35	3	1	31	22	5
01092	ZINC, TOTAL (UG/L AS ZN)	24	0	3	21	13	1
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	16	5	9	2	4	0
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	6	0	1	5	5	1
01130	LITHIUM, DISSOLVED (UG/L AS LI)	34	0	1	33	20	2
01147	SELENIUM, TOTAL (UG/L AS SE)	4	0	0	4	4	0
01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	8	5	3	0	2	0
01149	SELENIUM, TOTAL IN FISH OR ANIMALS WET WGT MG/KG	6	6	0	0	1	0
01351	FLOW, STRM,1DRY,2LOW,3NORM,4FLOOD,5ABOVE NORM,CODE	1	1	0	0	1	0
03582	OIL AND GREASE, WATER, TOTAL MG/L	3	3	0	0	3	3
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	198	3	156	39	31	9
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	19	0	0	19	4	0
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	274	197	44	33	29	9
31619	FECAL COLIFORM,MPN,BORIC ACID LACTOSE BR,43C,48HR	37	18	0	19	5	0
31623	FECAL COLIFORM,MF,MFC MEDIUM,VERIFIED #/100ML	7	0	7	0	7	7
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	1	0	1	0	1	0
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	15	0	3	12	7	1
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	425	193	184	48	6	0
32213	PHEOPHYTIN-A,FLUORIMETRIC METHOD (UG/L)	2	2	0	0	2	2
32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	2	2	0	0	2	2
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	344	192	152	0	6	0

Parameter Period of Record Tabulation
From 05/01/41 To 09/23/98

Parameter Code	Name	Total Obs	01/01/85 to 09/23/98	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
32222	CHLOROPHYLL A IN BOTTOM DEPOSITS (UG/KG DRY WGT)	20	0	20	0	4	0
32230	CHLOROPHYLL A (MG/L)	48	0	9	39	12	4
32231	CHLOROPHYLL B (MG/L)	12	0	5	7	5	0
32232	CHLOROPHYLL C (MG/L)	12	0	5	7	5	0
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	36	0	16	20	6	0
32734	PHENOLICS,TISSUE,WET WEIGHT,MG/KG	2	0	2	0	1	0
34204	ACENAPHTHYLENE WET WGTTISMG/KG	2	0	2	0	1	0
34209	ACENAPHTHENE WET WGTTISMG/KG	2	0	2	0	1	0
34224	ANTHRACENE WET WGTTISMG/KG	2	0	2	0	1	0
34241	BENZIDINE WET WGTTISMG/KG	2	0	2	0	1	0
34246	BENZO(K)FLUORANTHENE, WET WT, TISSUE MG/KG	2	0	2	0	1	0
34251	BENZO-A-PYRENE WET WGTTISMG/KG	2	0	2	0	1	0
34258	B-BHC-BETA WET WGTTISMG/KG	2	0	2	0	1	0
34263	DELTA BENZENE HEXACHLORIDE WET WGTTISMG/KG	2	0	2	0	1	0
34277	BIS (2-CHLOROETHYL) ETHER WET WGTTISMG/KG	2	0	2	0	1	0
34282	BIS (2-CHLOROETHOXY) METHANE WET WGTTISMG/KG	2	0	2	0	1	0
34287	BIS (2-CHLOROISOPROPYL) ETHER WET WGTTISMG/KG	2	0	2	0	1	0
34324	CHRYSENE WET WGTTISMG/KG	2	0	2	0	1	0
34340	DIETHYL PHTHALATE WET WGTTISMG/KG	2	0	2	0	1	0
34345	DIMETHYL PHTHALATE WET WGTTISMG/KG	2	0	2	0	1	0
34350	1,2-DIPHENYLHYDRAZINE WET WGTTISMG/KG	2	0	2	0	1	0
34354	ENDOSULFAN SULFATE DRY WGTBOTUG/KG	1	1	0	0	1	0
34355	ENDOSULFAN SULFATE WET WGTTISMG/KG	2	0	2	0	1	0
34360	ENDOSULFAN, BETA WET WGTTISMG/KG	2	0	2	0	1	0
34370	ENDRIN ALDEHYDE WET WGTTISMG/KG	2	0	2	0	1	0
34380	FLUORANTHENE WET WGTTISMG/KG	2	0	2	0	1	0
34385	FLUORENE WET WGTTISMG/KG	2	0	2	0	1	0
34390	HEXACHLOROCYCLOPENTADIENE WET WGTTISMG/KG	2	0	2	0	1	0
34400	HEXACHLOROETHANE WET WGTTISMG/KG	2	0	2	0	1	0
34407	INDENO (1,2,3-CD) PYRENE WET WGTTISMG/KG	2	0	2	0	1	0
34412	ISOPHORONE WET WGTTISMG/KG	2	0	2	0	1	0
34432	N-NITROSODI-N-PROPYLAMINE WET WGTTISMG/KG	2	0	2	0	1	0
34437	N-NITROSODIPHENYLAMINE WET WGTTISMG/KG	2	0	2	0	1	0
34442	N-NITROSODIMETHYLAMINE WET WGTTISMG/KG	2	0	2	0	1	0
34446	NAPHTHALENE WET WGTTISMG/KG	2	0	2	0	1	0
34451	NITROBENZENE WET WGTTISMG/KG	2	0	2	0	1	0
34465	PHENANTHRENE WET WGTTISMG/KG	2	0	2	0	1	0
34473	PYRENE WET WGTTISMG/KG	2	0	2	0	1	0
34530	BENZO(A)ANTHRACENE1,2-BENZANTHRACENWET WGTTISMG/KG	2	0	2	0	1	0
34540	1,2-DICHLOROBENZENE WET WGTTISMG/KG	2	0	2	0	1	0
34555	1,2,4-TRICHLOROBENZENE WET WGTTISMG/KG	2	0	2	0	1	0
34570	1,3-DICHLOROBENZENE WET WGTTISMG/KG	2	0	2	0	1	0
34575	1,4-DICHLOROBENZENE WET WGTTISMG/KG	2	0	2	0	1	0
34585	2-CHLORONAPHTHALENE WET WGTTISMG/KG	2	0	2	0	1	0
34595	2-NITROPHENOL WET WGTTISMG/KG	2	0	2	0	1	0
34600	DI-N-OCTYL PHTHALATE WET WGTTISMG/KG	2	0	2	0	1	0
34605	2,4-DICHLOROPHENOL WET WGTTISMG/KG	2	0	2	0	1	0
34610	2,4-DIMETHYLPHENOL WET WGTTISMG/KG	2	0	2	0	1	0
34615	2,4-DINITROTOLUENE WET WGTTISMG/KG	2	0	2	0	1	0
34620	2,4-DINITROPHENOL WET WGTTISMG/KG	2	0	2	0	1	0
34625	2,4,6-TRICHLOROPHENOL WET WGTTISMG/KG	2	0	2	0	1	0
34630	2,6-DINITROTOLUENE WET WGTTISMG/KG	2	0	2	0	1	0
34635	3,3'-DICHLOROBENZIDINE WET WGTTISMG/KG	2	0	2	0	1	0
34640	4-BROMOPHENYL PHENYL ETHER WET WGTTISMG/KG	2	0	2	0	1	0
34645	4-CHLOROPHENYL PHENYL ETHER WET WGTTISMG/KG	2	0	2	0	1	0
34650	4-NITROPHENOL WET WGTTISMG/KG	2	0	2	0	1	0
34680	ALDRIN IN FISH TISSUE WET WEIGHT MG/KG	7	5	2	0	2	0
34682	CHLORDANE(TECH MIX & METABS),TISSUEWET WGTT,MG/KG	7	5	2	0	2	0
34683	DI-N-BUTYL PHTHALATE,TISSUE,WET WGTWET WGT	2	0	2	0	1	0
34685	ENDRIN WET WGTTISMG/KG	7	5	2	0	2	0
34686	HEPTACHLOR EPOXIDE WET WGTTISMG/KG	7	5	2	0	2	0
34687	HEPTACHLOR WET WGTTISMG/KG	7	5	2	0	2	0
34688	HEXACHLOROBENZENE WET WGTTISMG/KG	7	5	2	0	2	0
34691	TOXAPHENE WET WGTTISMG/KG	7	5	2	0	2	0
39060	PCP (PENTACHLOROPHENOL) IN TISSUE WET WGT UG/G	2	0	2	0	1	0
39061	PCP (PENTACHLOROPHENOL) IN BOT DEPOS DRY SOL UG/KG	5	5	0	0	1	0
39063	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	5	3	2	0	2	0
39064	CHLORDANE-CIS ISOMER BOTTOM DEPOS (UG/KG DRY SOL	4	4	0	0	1	0
39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	5	3	2	0	2	0
39067	CHLORDANE-TRANS ISOMER,BOTTOM DEPOS(UG/KG DRY SL	4	4	0	0	1	0
39072	CHLORDANE-NONACHLOR,TRANS ISO,TISSUE,WET WT,UG/G	5	3	2	0	2	0

Parameter Period of Record Tabulation
From 05/01/41 To 09/23/98

Parameter Code	Name	Total Obs	01/01/85 to 09/23/98	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
39073	CHLORDANE-NONACHLOR,TRANS ISO,BOTTOM DEP UG/KG	4	4	0	0	1	0
39074	BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	5	3	2	0	2	0
39075	BHC- GAMMA ISOMER, TISSUE WET WGT (UG/G)	7	5	2	0	2	0
39076	BHC-ALPHA ISOMER, BOTTOM DEPOS (UG/KG DRY SOL)	4	4	0	0	1	0
39099	BIS(2-ETHYLHEXYL)PHTHALATE,TISSUE,WET WGT,MG/KG	2	0	2	0	1	0
39301	P,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	3	3	0	0	1	0
39302	P P DDT IN TISSUE WET WGT (UG/G)	5	3	2	0	2	0
39306	O,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	4	4	0	0	1	0
39307	O P DDT IN TISSUE WET WGT (UG/G)	5	3	2	0	2	0
39311	P,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	4	4	0	0	1	0
39312	P P DDD IN TISSUE WET WGT (UG/G)	5	3	2	0	2	0
39316	O,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	3	3	0	0	1	0
39321	P,P' DDE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	4	4	0	0	1	0
39322	P,P'-DDE IN TISSUE WET WGT MG/KG	5	3	2	0	2	0
39325	O,P DDD IN TISSUE WET WGT (UG/G)	5	3	2	0	2	0
39328	O,P'DDE IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	4	4	0	0	1	0
39329	O,P DDE IN TISSUE, WET WGT(UG/G)	5	3	2	0	2	0
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	8	0	0	8	7	1
39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	19	5	11	3	5	1
39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	6	0	0	6	5	1
39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	3	0	0	3	3	1
39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	6	0	0	6	5	1
39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	18	5	11	2	4	1
39360	DDD IN WHOLE WATER SAMPLE (UG/L)	8	0	0	8	7	1
39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	18	4	11	3	5	1
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	8	0	0	8	7	1
39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	19	5	11	3	5	1
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	8	0	0	8	7	1
39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	20	6	11	3	5	1
39376	DDT SUM ANALOGS INTISSUE WET WGT BASIS	6	4	2	0	2	0
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	8	0	0	8	7	1
39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	19	5	11	3	5	1
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	8	0	0	8	7	1
39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	19	5	11	3	5	1
39399	ETHION IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	1	0	1	0	1	0
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	3	0	0	3	3	1
39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	17	5	11	1	3	1
39406	DIELDRIN IN AQ ORGANISMS WT WGT BASIS (UG/G)	7	5	2	0	2	0
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	8	0	0	8	7	1
39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	19	5	11	3	5	1
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	8	0	0	8	7	1
39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	19	5	11	3	5	1
39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	16	5	11	0	2	0
39515	PCBS (MG/KG) FISH TISSUE MG/KG	7	5	2	0	2	0
39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	6	0	0	6	5	1
39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	16	5	9	2	3	1
39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	6	0	0	6	5	1
39531	MALATHION IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	8	5	2	1	3	1
39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	6	0	0	6	5	1
39541	PARATHION IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	17	5	11	1	3	1
39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	6	0	0	6	5	1
39571	DIAZINON IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	18	5	12	1	4	1
39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	6	0	0	6	5	1
39601	METHYL PARATHION IN BOT. DEPOS.(UG/KG DRY SOLIDS)	17	4	12	1	4	1
39701	HEXACHLOROBENZENE IN BOT DEPOS (UG/KG DRY SOLIDS)	5	5	0	0	1	0
39704	HEXACHLOROBUTADIENE IN FISH OR ANIMAL WET WGT UG/K	2	0	2	0	1	0
39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	11	0	1	10	9	1
39731	2,4-D IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	6	5	0	1	2	1
39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	11	0	1	10	9	1
39741	2,4,5-T IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	6	5	0	1	2	1
39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	11	0	1	10	9	1
39761	SILVEX IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	10	4	5	1	3	1
39782	LINDANE IN WHOLE WATER SAMPLE (UG/L)	3	0	0	3	3	0
39783	LINDANE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	16	5	11	0	2	0
39791	METHYL TRITHION IN BOT DEPOS (UG/KG DRY SOLIDS)	1	0	1	0	1	0
46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	14	0	0	14	10	0
50787	PHOSPHATE, TOTAL AS P, WATER MG/L	7	0	7	0	7	7
61215	FECAL COLIFORM, GENERAL #/100ML	3	3	0	0	1	0
70211	TIDE, HIGH OR LOW,BEFORE OR AFTER,HOUR,MINUTE	22	0	0	22	6	0
70294	RESIDUE,TOTAL DISS,UNSPEC CALC BASED ON COND MG/L	3	3	0	0	1	0
70295	RESIDUE,TOTAL FILTRABLE (DRIED AT ANY TEMP),MG/L	165	0	129	36	4	0

Parameter Period of Record Tabulation
From 05/01/41 To 09/23/98

Parameter Code	Name	Total Obs	01/01/85 to 09/23/98	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	84	50	34	0	15	9
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	87	0	43	44	23	2
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	72	0	43	29	13	2
70322	SOLIDS, VOLATILE, PERCENT OF TOTAL SOLIDS	3	0	2	1	1	0
70505	PHOSPHATE,TOTAL,COLORIMETRIC METHOD (MG/L AS P)	5	0	5	0	3	0
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	5	0	5	0	3	0
70961	PRODUCTIVITY, PRIMARY, GROSS (MGC/CU M/DAY)	3	0	3	0	3	3
71820	DENSITY (GM/ML AT 20 C)	8	0	0	8	6	0
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	49	0	32	17	16	1
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	17	0	0	17	9	0
71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	17	0	0	17	9	0
71865	IODIDE (MG/L AS I)	17	0	0	17	12	1
71870	BROMIDE (MG/L AS BR)	17	0	0	17	12	1
71875	HYDROGEN SULFIDE (MG/L)	4	0	0	4	4	0
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	45	0	45	0	7	1
71887	NITROGEN, TOTAL, AS NO3 - MG/L	97	0	87	10	15	1
71890	MERCURY, DISSOLVED (UG/L AS HG)	10	3	1	6	9	4
71900	MERCURY, TOTAL (UG/L AS HG)	12	0	3	9	9	1
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	19	5	11	3	5	0
71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	28	6	22	0	7	2
71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	8	6	2	0	2	0
71937	COPPER,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	8	6	2	0	2	0
71939	CHROMIUM,TOT IN FISH OR ANIMALS-WET WEIGHT BASIS	8	6	2	0	2	0
71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	8	6	2	0	2	0
72053	DAYS SINCE PRECIPITATION EVENT DAYS	121	121	0	0	7	0
78877	DIPHENYLAMINE IN TISSUE, WET WEIGHT MG/KG	2	0	2	0	1	0
79035	CHLOROPHENOL TISWETWTMG/KG	2	0	2	0	1	0
79036	4-CHLORO-3-CRESOL TISWETWTMG/KG	2	0	2	0	1	0
79037	2,6-DINITRO-2-CRESOL TISWETWTMG/KG	2	0	2	0	1	0
79038	BUTYLBENZYL PHTHALATE TISWETWTMG/KG	2	0	2	0	1	0
79039	BENZO(J)FLUORANTHENE TISWETWTMG/KG	2	0	2	0	1	0
79040	DIBENZ(A,H)ANTHRACENE TISWETWTMG/KG	2	0	2	0	1	0
79041	BENZO(GHI)PERYLENE TISWETWTMG/KG	2	0	2	0	1	0
80106	PHOSPHORUS IN PARTICULATES (MG/KG DRY WT)	2	0	1	1	1	0
81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	23	6	17	0	10	3
81615	NUMBER OF DIFFERENT SPECIES IN THE SAMPLE	8	6	2	0	2	0
81637	SHELLFISH SPECIES NUMERIC CODE	12	0	12	0	5	1
81644	METHOXYCHLOR IN FISH TISSUE,UG/G WET WEIGHT	7	5	2	0	2	0
81744	CADMIUM IN SHELLFISH TISSUE WET WEIGHT PPM(MG/KG)	3	0	3	0	2	1
81746	COPPER IN SHELLFISH TISSUE WET WEIGHT PPM(MG/KG)	3	0	3	0	2	1
81748	LEAD IN SHELLFISH TISSUE WET WEIGHT PPM(MG/KG)	3	0	3	0	2	1
81749	ZINC IN SHELLFISH TISSUE WET WEIGHT PPM(MG/KG)	3	0	3	0	2	1
81770	MERCURY IN SHELLFISH TISSUE,WET WEIGHT,(PPM)MG/KG	11	0	11	0	4	1
81896	DDE TOTAL IN TISSUE WET WEIGHT MG/KG	7	5	2	0	2	0
81897	DDD TOTAL IN TISSUE WET WEIGHT MG/KG	7	5	2	0	2	0
82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	3	0	3	0	3	1
82537	TURBIDITY,FORWARD SCATTER JTU	18	0	0	18	4	0
84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	16	0	14	2	16	2
84001	AQUIFER NAME CODE (SEE USGS CATALOG)	16	0	14	2	16	2
84007	ANATOMY ALPHA CODE	32	0	32	0	10	3
84008	LIFE STYLE/HABITAT OF THEINDIVIDUALS IN THE SAMPLE	32	0	32	0	10	3
84009	SHELLFISH SPECIES ALPHANUMERIC CODE	12	0	12	0	5	1
84100	SEX(1-MALE,2-FEMALE,3-MIXED,4-UNKNOWN) NUM CODE	8	6	2	0	2	0

Station/Parameter Period of Record Tabulation
From 05/01/41 To 09/23/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
PAIS0001	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	03/23/78-03/23/78	0	4	
PAIS0002	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	03/22/78-03/22/78	0	4	
PAIS0003	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/22/68-08/22/68	0	2	
PAIS0004	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/22/68-08/22/68	0	2	
PAIS0007	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/20/68-10/07/70	2	15	
PAIS0008	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/13/83-10/13/83	0	14	
PAIS0009	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/20/68-10/07/70	2	15	
PAIS0010	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/20/68-06/03/75	6	46	
PAIS0011	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/20/68-10/07/70	2	12	
PAIS0012	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/20/68-08/25/76	8	44	
PAIS0013	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/20/68-10/07/70	2	12	
PAIS0016	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/20/68-10/22/74	6	35	
PAIS0018	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/09/69-08/30/94	24	156	
PAIS0019	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/09/69-07/16/96	26	260	
PAIS0020	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	04/11/79-03/29/82	2	14	
PAIS0022	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/22/68-03/29/82	13	100	
PAIS0023	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/22/68-03/29/82	13	62	
PAIS0024	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/22/68-10/07/70	2	7	
PAIS0025	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/22/68-10/07/70	2	13	
PAIS0026	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/22/68-10/07/70	2	7	
PAIS0028	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/22/68-03/29/82	13	24	
PAIS0030	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/23/68-06/04/75	6	39	
PAIS0031	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/23/68-10/07/70	2	10	
PAIS0032	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/23/68-06/04/75	6	20	
PAIS0033	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/23/68-10/07/70	2	6	
PAIS0034	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/23/68-06/27/78	9	8	
PAIS0041	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/22/78-05/22/78	0	1	
PAIS0042	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/17/77-05/17/77	0	1	
PAIS0044	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/23/72-04/21/94	22	210	
PAIS0047	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/17/77-05/17/77	0	1	
PAIS0048	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/23/68-10/07/70	2	17	
PAIS0049	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/23/68-03/30/82	13	70	
PAIS0050	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/23/68-08/26/76	8	54	
PAIS0051	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/23/68-10/07/70	2	17	
PAIS0052	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/11/69-09/11/69	0	1	
PAIS0054	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/26/68-03/30/82	13	16	
PAIS0055	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/26/68-03/30/82	13	61	
PAIS0056	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/26/68-10/07/70	2	20	
PAIS0057	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/26/68-10/07/70	2	4	
PAIS0061	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/26/68-10/07/70	2	7	
PAIS0062	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/26/68-06/04/75	6	16	
PAIS0063	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/26/68-06/04/75	6	43	
PAIS0064	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/26/68-10/07/70	2	16	
PAIS0076	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/11/79-03/30/82	2	12	
PAIS0077	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/22/77-04/11/79	1	6	
PAIS0080	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/26/68-03/01/78	9	32	
PAIS0081	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/26/68-03/30/82	13	89	
PAIS0082	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/26/68-08/26/76	8	50	
PAIS0083	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/26/68-09/16/69	1	6	
PAIS0084	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/16/69-09/16/69	0	3	
PAIS0085	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/26/68-09/16/69	1	9	
PAIS0086	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/26/68-09/16/69	1	4	
PAIS0093	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/17/77-05/17/77	0	2	
PAIS0094	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/07/77-07/07/77	0	2	
PAIS0096	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/27/68-06/27/78	9	36	
PAIS0098	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/27/68-09/16/69	1	10	
PAIS0099	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/06/78-06/06/78	0	1	
PAIS0100	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/27/72-07/25/96	24	272	
PAIS0117	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/27/68-09/16/69	1	4	
PAIS0118	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/27/68-09/16/69	1	12	
PAIS0119	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/27/68-03/30/82	13	29	
PAIS0121	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/27/68-03/30/82	13	77	
PAIS0128	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/07/77-07/07/77	0	1	
PAIS0135	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/28/68-09/16/69	1	8	
PAIS0146	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/28/68-06/04/75	6	35	
PAIS0160	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/01/78-06/01/78	0	11	
PAIS0175	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	11/18/93-09/27/94	0	47	
PAIS0182	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/23/73-07/29/96	22	331	
PAIS0202	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/03/67-10/03/67	0	6	
PAIS0209	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/28/68-10/08/70	2	13	
PAIS0210	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/28/68-03/30/82	13	63	
PAIS0213	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/28/68-09/16/69	1	5	

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

Station/Parameter Period of Record Tabulation
From 05/01/41 To 09/23/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
PAIS0219	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/28/68-03/30/82	13	37	
PAIS0251	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	04/19/78-04/19/78	0	5	
PAIS0252	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	01/15/73-08/15/74	1	3	
PAIS0253	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	01/15/73-08/15/74	1	4	
PAIS0254	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	01/06/76-04/06/77	1	2	
PAIS0255	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	01/06/75-07/16/96	21	282	
PAIS0256	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	01/15/73-08/15/74	1	4	
PAIS0257	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/15/74-08/15/74	0	1	
PAIS0003	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/22/68-08/22/68	0	2	
PAIS0004	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/22/68-08/22/68	0	2	
PAIS0005	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/01/57-11/01/58	1	5	
PAIS0007	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/20/68-10/07/70	2	15	
PAIS0008	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/13/83-10/13/83	0	8	
PAIS0009	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/20/68-10/07/70	2	15	
PAIS0010	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/20/68-06/03/75	6	46	
PAIS0011	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/20/68-10/07/70	2	12	
PAIS0012	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/20/68-08/25/76	8	44	
PAIS0013	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/20/68-10/07/70	2	12	
PAIS0014	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/01/57-11/01/58	1	5	
PAIS0016	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/20/68-10/22/74	6	32	
PAIS0018	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/09/69-08/30/94	24	108	
PAIS0019	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/09/69-07/16/96	26	155	
PAIS0020	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/11/79-03/29/82	2	14	
PAIS0022	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/22/68-03/29/82	13	88	
PAIS0023	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/22/68-03/29/82	13	61	
PAIS0024	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/22/68-10/07/70	2	7	
PAIS0025	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/22/68-10/07/70	2	13	
PAIS0026	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/22/68-10/07/70	2	7	
PAIS0028	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/22/68-03/29/82	13	24	
PAIS0030	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/23/68-06/04/75	6	39	
PAIS0031	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/23/68-10/07/70	2	10	
PAIS0032	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/23/68-06/04/75	6	20	
PAIS0033	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/23/68-10/07/70	2	6	
PAIS0034	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/23/68-06/27/78	9	8	
PAIS0043	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/01/57-11/01/58	1	5	
PAIS0044	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/23/72-04/21/94	22	127	
PAIS0045	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/17/74-06/06/78	3	16	
PAIS0048	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/23/68-10/07/70	2	17	
PAIS0049	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/23/68-03/30/82	13	70	
PAIS0050	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/23/68-08/26/76	8	52	
PAIS0051	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/23/68-10/07/70	2	17	
PAIS0052	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/11/69-09/11/69	0	1	
PAIS0054	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/68-03/30/82	13	16	
PAIS0055	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/68-03/30/82	13	61	
PAIS0056	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/68-10/07/70	2	20	
PAIS0057	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/68-10/07/70	2	4	
PAIS0059	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/05/75-11/05/75	0	1	
PAIS0060	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/05/75-11/05/75	0	1	
PAIS0061	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/68-10/07/70	2	7	
PAIS0062	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/68-06/04/75	6	16	
PAIS0063	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/68-06/04/75	6	43	
PAIS0064	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/68-10/07/70	2	16	
PAIS0065	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/06/75-11/06/75	0	1	
PAIS0066	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/05/75-11/05/75	0	1	
PAIS0067	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/05/75-11/05/75	0	1	
PAIS0068	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/05/75-11/05/75	0	1	
PAIS0069	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/15/71-11/15/71	0	9	
PAIS0070	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/06/75-11/06/75	0	1	
PAIS0071	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/15/71-11/15/71	0	9	
PAIS0073	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/15/71-11/15/71	0	9	
PAIS0075	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/01/57-11/01/58	1	5	
PAIS0076	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/11/79-03/30/82	2	12	
PAIS0077	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/22/77-04/11/79	1	6	
PAIS0078	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/15/71-11/15/71	0	9	
PAIS0080	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/68-03/01/78	9	32	
PAIS0081	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/68-03/30/82	13	89	
PAIS0082	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/68-08/26/76	8	50	
PAIS0083	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/68-09/16/69	1	6	
PAIS0084	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/16/69-09/16/69	0	3	
PAIS0085	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/68-09/16/69	1	9	
PAIS0086	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/68-09/16/69	1	4	
PAIS0087	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/06/75-11/06/75	0	1	

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

Station/Parameter Period of Record Tabulation
From 05/01/41 To 09/23/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
PAIS0088	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/15/71-11/15/71	0	9	
PAIS0090	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/11/75-01/14/76	0	2	
PAIS0091	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/01/57-11/01/58	1	5	
PAIS0092	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/06/75-11/06/75	0	1	
PAIS0095	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/06/75-01/14/76	0	2	
PAIS0096	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/27/68-06/27/78	9	34	
PAIS0097	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/06/75-11/06/75	0	1	
PAIS0098	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/27/68-09/16/69	1	9	
PAIS0099	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/09/74-03/09/78	3	11	
PAIS0100	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/27/72-07/25/96	24	168	
PAIS0105	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/06/75-11/06/75	0	1	
PAIS0107	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/06/75-01/14/76	0	3	
PAIS0108	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/06/75-11/06/75	0	1	
PAIS0109	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/11/75-01/14/76	0	2	
PAIS0111	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/06/75-11/06/75	0	1	
PAIS0113	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/15/71-11/15/71	0	9	
PAIS0116	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/11/75-01/14/76	0	2	
PAIS0117	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/27/68-09/16/69	1	4	
PAIS0118	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/27/68-09/16/69	1	12	
PAIS0119	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/27/68-03/30/82	13	29	
PAIS0120	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/01/57-11/01/58	1	5	
PAIS0121	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/27/68-03/30/82	13	77	
PAIS0122	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/06/75-11/06/75	0	1	
PAIS0123	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/06/75-01/14/76	0	3	
PAIS0124	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/06/75-11/06/75	0	1	
PAIS0126	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/11/75-01/14/76	0	2	
PAIS0127	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/01/57-11/01/58	1	5	
PAIS0129	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/15/71-12/15/71	0	10	
PAIS0131	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/19/75-09/19/75	0	1	
PAIS0132	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/19/75-09/19/75	0	1	
PAIS0133	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/13/75-01/14/76	0	5	
PAIS0135	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/28/68-09/16/69	1	8	
PAIS0136	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/15/89-08/15/90	0	12	
PAIS0137	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/19/75-09/19/75	0	1	
PAIS0138	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/15/71-12/15/71	0	11	
PAIS0140	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/15/71-12/15/71	0	12	
PAIS0142	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/19/75-09/19/75	0	1	
PAIS0143	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/19/75-09/19/75	0	1	
PAIS0144	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/19/75-09/19/75	0	1	
PAIS0145	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/19/75-09/19/75	0	1	
PAIS0146	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/28/68-06/04/75	6	35	
PAIS0147	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/19/75-12/11/75	0	2	
PAIS0148	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/13/75-01/14/76	0	4	
PAIS0151	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/21/98-07/21/98	0	1	
PAIS0152	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/15/89-08/15/90	0	12	
PAIS0156	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/19/75-12/11/75	0	2	
PAIS0163	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/19/75-09/19/75	0	1	
PAIS0164	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/19/75-09/19/75	0	1	
PAIS0165	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/08/98-04/09/98	0	2	
PAIS0166	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/19/75-01/14/76	0	3	
PAIS0167	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/01/57-11/01/58	1	5	
PAIS0169	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/19/75-09/19/75	0	1	
PAIS0170	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/19/75-09/19/75	0	1	
PAIS0171	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/19/75-09/19/75	0	1	
PAIS0172	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/15/89-08/15/90	0	12	
PAIS0174	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/19/75-09/19/75	0	1	
PAIS0175	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/18/93-09/27/94	0	28	
PAIS0176	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/19/75-09/19/75	0	1	
PAIS0177	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/19/75-09/19/75	0	1	
PAIS0178	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/02/75-09/02/75	0	1	
PAIS0180	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/02/75-09/02/75	0	1	
PAIS0181	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/02/74-06/06/78	3	10	
PAIS0182	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/23/73-07/29/96	22	187	
PAIS0183	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/02/75-09/02/75	0	1	
PAIS0184	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/02/75-09/02/75	0	1	
PAIS0185	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/02/75-09/02/75	0	1	
PAIS0186	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/02/75-09/02/75	0	1	
PAIS0187	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/13/75-01/14/76	0	5	
PAIS0188	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/02/75-09/02/75	0	1	
PAIS0190	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/02/75-09/02/75	0	1	
PAIS0191	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/16/92-09/23/98	6	44127	
PAIS0192	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/02/75-09/02/75	0	1	

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

Station/Parameter Period of Record Tabulation
From 05/01/41 To 09/23/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
PAIS0193	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/02/75-09/02/75	0	1	
PAIS0194	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/02/75-09/02/75	0	1	
PAIS0195	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/02/75-09/02/75	0	1	
PAIS0196	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/02/75-09/02/75	0	1	
PAIS0198	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/15/71-12/15/71	0	11	
PAIS0200	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/02/75-09/02/75	0	1	
PAIS0201	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/02/75-09/02/75	0	1	
PAIS0202	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/67-10/03/67	0	6	
PAIS0203	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/02/75-09/02/75	0	1	
PAIS0205	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/02/75-01/14/76	0	3	
PAIS0206	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/15/71-12/15/71	0	12	
PAIS0208	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/17/75-07/17/75	0	1	
PAIS0209	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/28/68-10/08/70	2	13	
PAIS0210	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/28/68-03/30/82	13	61	
PAIS0211	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/13/75-01/14/76	0	5	
PAIS0213	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/28/68-09/16/69	1	5	
PAIS0214	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/15/71-12/15/71	0	12	
PAIS0216	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/24/75-07/24/75	0	1	
PAIS0217	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/24/75-07/24/75	0	1	
PAIS0218	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/17/75-07/17/75	0	1	
PAIS0219	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/28/68-03/30/82	13	37	
PAIS0220	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/17/75-07/17/75	0	1	
PAIS0221	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/24/75-07/24/75	0	1	
PAIS0222	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/17/75-07/17/75	0	1	
PAIS0223	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/17/75-11/05/75	0	4	
PAIS0224	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/17/75-07/17/75	0	1	
PAIS0225	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/17/75-07/17/75	0	1	
PAIS0226	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/17/75-07/24/75	0	2	
PAIS0227	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/17/75-07/17/75	0	1	
PAIS0228	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/24/75-07/24/75	0	1	
PAIS0229	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/17/75-07/17/75	0	1	
PAIS0230	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/17/75-07/24/75	0	2	
PAIS0231	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/24/75-07/24/75	0	1	
PAIS0232	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/24/75-07/24/75	0	1	
PAIS0233	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/17/75-07/24/75	0	2	
PAIS0234	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/24/75-07/24/75	0	1	
PAIS0235	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/24/75-07/24/75	0	1	
PAIS0236	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/24/75-07/24/75	0	1	
PAIS0238	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/17/75-01/14/76	0	4	
PAIS0239	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/24/75-07/24/75	0	1	
PAIS0241	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/15/71-12/15/71	0	12	
PAIS0243	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/13/75-06/13/75	0	1	
PAIS0244	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/11/75-01/14/76	0	2	
PAIS0246	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/01/57-11/01/58	1	5	
PAIS0248	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/01/57-11/01/58	1	5	
PAIS0249	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/11/75-01/14/76	0	2	
PAIS0252	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/15/73-08/15/74	1	4	
PAIS0253	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/15/73-08/15/74	1	7	
PAIS0254	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/07/75-06/06/78	2	6	
PAIS0255	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/06/75-07/16/96	21	166	
PAIS0256	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/15/73-08/15/74	1	7	
PAIS0257	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/15/73-08/15/74	1	2	
PAIS0008	No	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	10/13/83-10/13/83	0	8	
PAIS0015	No	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	11/26/71-09/17/74	2	11	
PAIS0018	No	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	09/09/69-02/19/85	15	76	T
PAIS0019	No	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	09/09/69-10/09/85	16	89	T
PAIS0044	No	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	02/23/72-10/09/85	13	81	T
PAIS0045	No	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	09/17/74-06/06/78	3	13	
PAIS0053	No	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	02/23/72-09/17/74	2	9	
PAIS0058	No	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	10/01/85-10/01/85	0	3	
PAIS0099	No	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	10/02/74-09/07/77	2	8	
PAIS0100	No	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	02/27/72-11/14/85	13	83	T
PAIS0101	No	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	02/27/72-07/17/74	2	11	
PAIS0149	Yes	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	10/23/73-07/17/74	0	4	
PAIS0181	No	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	10/02/74-06/06/78	3	9	
PAIS0182	No	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	10/23/73-11/14/85	12	79	T
PAIS0254	No	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	07/07/75-06/06/78	2	4	
PAIS0255	No	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/06/75-11/14/85	10	78	T
PAIS0041	No	00024	SAMPLE LENGTH IN INCHES	05/22/78-05/22/78	0	1	
PAIS0042	No	00024	SAMPLE LENGTH IN INCHES	05/17/77-05/17/77	0	1	
PAIS0093	Yes	00024	SAMPLE LENGTH IN INCHES	05/17/77-05/17/77	0	2	
PAIS0094	No	00024	SAMPLE LENGTH IN INCHES	07/07/77-07/07/77	0	2	

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

Station/Parameter Period of Record Tabulation
From 05/01/41 To 09/23/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
PAIS0128	Yes	00024	SAMPLE LENGTH IN INCHES	07/07/77-07/07/77	0	1	
PAIS0160	Yes	00024	SAMPLE LENGTH IN INCHES	06/01/78-06/01/78	0	11	
PAIS0251	No	00024	SAMPLE LENGTH IN INCHES	04/19/78-04/19/78	0	5	
PAIS0020	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	12/15/81-03/29/82	0	9	
PAIS0022	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	12/15/81-03/29/82	0	4	
PAIS0023	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	12/15/81-03/29/82	0	6	
PAIS0028	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	12/15/81-03/29/82	0	3	
PAIS0049	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	12/15/81-03/30/82	0	6	
PAIS0054	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	12/15/81-03/30/82	0	4	
PAIS0055	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	12/15/81-03/30/82	0	6	
PAIS0076	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	12/15/81-03/30/82	0	4	
PAIS0081	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	12/15/81-03/30/82	0	6	
PAIS0119	Yes	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	12/15/81-03/30/82	0	2	
PAIS0121	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	12/15/81-03/30/82	0	6	
PAIS0210	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	12/15/81-03/30/82	0	6	
PAIS0219	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	12/15/81-03/30/82	0	4	
PAIS0020	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	04/11/79-03/29/82	2	13	
PAIS0022	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	06/27/78-03/29/82	3	10	
PAIS0023	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	04/11/79-03/29/82	2	11	
PAIS0028	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	12/15/81-03/29/82	0	3	
PAIS0034	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	06/27/78-06/27/78	0	2	
PAIS0049	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	06/27/78-03/30/82	3	8	
PAIS0054	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	12/15/81-03/30/82	0	4	
PAIS0055	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	04/11/79-03/30/82	2	11	
PAIS0076	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	12/15/81-03/30/82	0	4	
PAIS0077	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	06/27/78-06/27/78	0	2	
PAIS0081	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	04/11/79-03/30/82	2	16	
PAIS0096	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	06/27/78-06/27/78	0	2	
PAIS0119	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	06/27/78-03/30/82	3	9	
PAIS0121	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	12/15/81-03/30/82	0	6	
PAIS0210	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	12/15/81-03/30/82	0	6	
PAIS0219	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	04/11/79-03/30/82	2	8	
PAIS0045	No	00032	CLOUD COVER (PERCENT)	09/08/76-02/06/78	1	5	
PAIS0045	No	00037	WIND FORCE (BEAUFORT UNITS)	03/17/77-02/06/78	0	4	
PAIS0045	No	00040	WIND DIRECTION, AZIMUTH	06/28/76-06/28/76	0	1	
PAIS0255	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	02/12/90-02/12/90	0	1	
PAIS0010	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	09/27/72-02/04/75	2	15	
PAIS0012	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	04/23/74-02/10/76	1	17	
PAIS0016	Yes	00070	TURBIDITY, (JACKSON CANDLE UNITS)	04/23/74-10/22/74	0	6	
PAIS0018	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	09/09/69-06/20/77	7	23	
PAIS0019	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	09/09/69-02/12/80	10	25	
PAIS0022	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/23/73-02/11/76	2	46	
PAIS0023	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	04/23/74-02/11/76	1	11	
PAIS0030	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	09/27/72-06/04/75	2	30	
PAIS0032	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	04/24/74-06/04/75	1	6	
PAIS0036	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	09/23/70-09/23/72	2	9	
PAIS0037	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	09/23/70-09/23/72	2	9	
PAIS0038	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	09/23/70-09/23/72	2	9	
PAIS0039	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	09/23/70-09/23/72	2	9	
PAIS0040	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	12/21/70-09/23/72	1	7	
PAIS0044	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/23/72-06/20/77	5	15	
PAIS0049	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	06/04/72-06/04/75	3	25	
PAIS0050	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	09/27/72-02/11/76	3	31	
PAIS0055	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	09/27/72-04/24/74	1	8	
PAIS0062	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	10/23/74-06/04/75	0	6	
PAIS0063	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	09/27/72-06/04/75	2	22	
PAIS0069	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/15/71-11/15/71	0	9	
PAIS0071	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/15/71-11/15/71	0	9	
PAIS0073	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/15/71-11/15/71	0	9	
PAIS0078	Yes	00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/15/71-11/15/71	0	9	
PAIS0080	Yes	00070	TURBIDITY, (JACKSON CANDLE UNITS)	04/24/74-02/11/76	1	13	
PAIS0081	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	09/27/72-02/11/76	3	32	
PAIS0082	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	09/27/72-02/11/76	3	33	
PAIS0088	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/15/71-11/15/71	0	9	
PAIS0096	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	09/27/72-06/04/75	2	20	
PAIS0099	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/17/74-10/07/76	2	2	
PAIS0100	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/27/72-12/05/77	5	20	
PAIS0113	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/15/71-11/15/71	0	9	
PAIS0119	Yes	00070	TURBIDITY, (JACKSON CANDLE UNITS)	10/23/74-10/23/74	0	2	
PAIS0121	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/24/73-02/11/76	2	25	
PAIS0129	Yes	00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/15/71-12/15/71	0	10	
PAIS0138	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/15/71-12/15/71	0	11	

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

Station/Parameter Period of Record Tabulation
From 05/01/41 To 09/23/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
PAIS0140	Yes	00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/15/71-12/15/71	0	12	
PAIS0146	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	04/24/74-06/04/75	1	13	
PAIS0181	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/17/74-10/02/74	0	2	
PAIS0182	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	10/23/73-12/05/77	4	13	
PAIS0198	Yes	00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/15/71-12/15/71	0	11	
PAIS0206	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/15/71-12/15/71	0	12	
PAIS0210	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	09/28/72-06/04/75	2	18	
PAIS0214	Yes	00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/15/71-12/15/71	0	12	
PAIS0219	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/24/73-10/23/74	1	6	
PAIS0241	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/15/71-12/15/71	0	12	
PAIS0254	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	10/07/76-10/07/76	0	1	
PAIS0255	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/06/75-12/05/77	2	7	
PAIS0021	No	00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	08/01/57-08/01/58	1	5	
PAIS0179	No	00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	08/01/57-08/01/58	1	5	
PAIS0136	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/15/89-08/15/90	0	12	
PAIS0152	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/15/89-08/15/90	0	12	
PAIS0172	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/15/89-08/15/90	0	12	
PAIS0018	No	00077	TRANSPARENCY, SECCHI DISC (INCHES)	06/26/75-07/20/88	13	15	
PAIS0019	No	00077	TRANSPARENCY, SECCHI DISC (INCHES)	09/18/75-12/06/88	13	35	
PAIS0044	No	00077	TRANSPARENCY, SECCHI DISC (INCHES)	12/04/75-12/06/88	13	35	
PAIS0100	No	00077	TRANSPARENCY, SECCHI DISC (INCHES)	01/11/77-04/17/89	12	39	
PAIS0182	No	00077	TRANSPARENCY, SECCHI DISC (INCHES)	01/11/77-04/17/89	12	39	
PAIS0255	No	00077	TRANSPARENCY, SECCHI DISC (INCHES)	01/11/77-04/17/89	12	36	
PAIS0003	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	08/22/68-08/22/68	0	1	
PAIS0004	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	08/22/68-08/22/68	0	1	
PAIS0007	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	09/11/69-09/11/69	0	1	
PAIS0009	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	08/20/68-09/11/69	1	2	
PAIS0010	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	08/20/68-06/03/75	6	9	
PAIS0011	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	08/20/68-10/07/70	2	3	
PAIS0012	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	08/20/68-08/25/76	8	10	
PAIS0013	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	09/11/69-10/07/70	1	2	
PAIS0016	Yes	00078	TRANSPARENCY, SECCHI DISC (METERS)	09/11/69-10/22/74	5	6	
PAIS0018	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	08/17/89-08/30/94	5	8	
PAIS0019	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	08/17/89-07/16/96	6	19	
PAIS0020	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	07/16/80-12/15/81	1	2	
PAIS0022	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	08/22/68-03/29/82	13	32	
PAIS0023	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	08/22/68-03/29/82	13	20	
PAIS0024	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	08/22/68-10/07/70	2	3	
PAIS0025	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	08/22/68-10/07/70	2	4	
PAIS0026	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	08/22/68-10/07/70	2	3	
PAIS0028	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	08/22/68-03/29/82	13	11	
PAIS0030	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	08/23/68-06/04/75	6	14	
PAIS0031	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	08/23/68-10/07/70	2	3	
PAIS0032	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	08/23/68-06/04/75	6	8	
PAIS0033	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	08/23/68-10/07/70	2	3	
PAIS0034	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	08/23/68-06/27/78	9	4	
PAIS0044	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	08/17/89-04/21/94	4	11	
PAIS0048	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	08/23/68-10/07/70	2	3	
PAIS0049	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	08/23/68-03/30/82	13	18	
PAIS0050	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	08/23/68-08/26/76	8	11	
PAIS0051	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	08/23/68-09/11/69	1	2	
PAIS0054	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	08/26/68-03/30/82	13	7	
PAIS0055	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	09/11/69-03/30/82	12	11	
PAIS0056	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	09/11/69-09/11/69	0	1	
PAIS0057	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	08/26/68-10/07/70	2	2	
PAIS0061	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	09/11/69-10/07/70	1	3	
PAIS0062	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	09/11/69-06/04/75	5	8	
PAIS0063	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	09/11/69-06/04/75	5	9	
PAIS0064	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	09/11/69-09/16/69	0	2	
PAIS0076	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	07/16/80-03/30/82	1	5	
PAIS0077	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	06/22/77-04/11/79	1	3	
PAIS0080	Yes	00078	TRANSPARENCY, SECCHI DISC (METERS)	08/26/68-08/26/76	8	12	
PAIS0081	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	08/26/68-03/30/82	13	26	
PAIS0082	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	08/26/68-08/26/76	8	15	
PAIS0083	Yes	00078	TRANSPARENCY, SECCHI DISC (METERS)	08/26/68-09/16/69	1	2	
PAIS0084	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	09/16/69-09/16/69	0	1	
PAIS0085	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	08/26/68-09/16/69	1	2	
PAIS0086	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	08/26/68-09/16/69	1	2	
PAIS0096	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	09/15/69-06/27/78	8	11	
PAIS0098	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	09/15/69-09/16/69	0	2	
PAIS0100	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	10/12/89-07/25/96	6	29	
PAIS0117	Yes	00078	TRANSPARENCY, SECCHI DISC (METERS)	09/16/69-09/16/69	0	1	

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

Station/Parameter Period of Record Tabulation
From 05/01/41 To 09/23/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
PAIS0118	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	08/28/68-09/16/69	1	2	
PAIS0119	Yes	00078	TRANSPARENCY, SECCHI DISC (METERS)	09/16/69-03/30/82	12	11	
PAIS0121	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	08/28/68-03/30/82	13	19	
PAIS0135	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	08/28/68-09/16/69	1	2	
PAIS0146	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	08/28/68-06/04/75	6	9	
PAIS0175	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	11/18/93-09/27/94	0	20	
PAIS0182	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	08/08/89-07/29/96	6	44	
PAIS0209	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	08/28/68-10/08/70	2	3	
PAIS0210	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	08/28/68-03/30/82	13	15	
PAIS0213	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	09/16/69-09/16/69	0	1	
PAIS0219	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	09/16/69-03/30/82	12	10	
PAIS0255	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	02/12/90-07/16/96	6	26	
PAIS0019	No	00080	COLOR (PLATINUM-COBALT UNITS)	10/07/70-10/07/70	0	1	
PAIS0252	No	00090	OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	01/15/73-09/15/73	0	2	
PAIS0253	No	00090	OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	01/15/73-09/15/73	0	3	
PAIS0256	No	00090	OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	01/15/73-09/15/73	0	4	
PAIS0257	No	00090	OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	01/15/73-01/15/73	0	1	
PAIS0003	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/22/68-08/22/68	0	2	
PAIS0007	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/20/68-10/07/70	2	15	
PAIS0008	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/13/83-10/13/83	0	8	
PAIS0009	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/20/68-10/07/70	2	15	
PAIS0011	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/20/68-10/07/70	2	12	
PAIS0013	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/20/68-10/07/70	2	12	
PAIS0018	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/23/70-08/30/94	24	101	T,S
PAIS0019	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/23/70-07/16/96	25	162	T,A,S
PAIS0024	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/22/68-10/07/70	2	7	
PAIS0025	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/22/68-10/07/70	2	13	
PAIS0026	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/22/68-10/07/70	2	7	
PAIS0031	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/23/68-10/07/70	2	10	
PAIS0033	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/23/68-10/07/70	2	6	
PAIS0044	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	09/13/72-04/21/94	21	145	T,A,S
PAIS0045	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	09/17/74-02/06/78	3	7	
PAIS0048	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/23/68-10/07/70	2	17	
PAIS0051	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/23/68-10/07/70	2	17	
PAIS0052	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	09/11/69-09/11/69	0	1	
PAIS0056	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/26/68-10/07/70	2	20	
PAIS0057	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/26/68-10/07/70	2	4	
PAIS0061	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/26/68-10/07/70	2	7	
PAIS0064	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/26/68-10/07/70	2	16	
PAIS0083	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/26/68-09/16/69	1	6	
PAIS0084	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	09/16/69-09/16/69	0	3	
PAIS0085	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/26/68-09/16/69	1	9	
PAIS0086	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/26/68-09/16/69	1	4	
PAIS0098	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/27/68-09/16/69	1	9	
PAIS0099	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/09/74-06/06/78	4	8	
PAIS0100	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/10/73-07/25/96	23	192	T,A,S
PAIS0117	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/27/68-09/16/69	1	4	
PAIS0118	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/27/68-09/16/69	1	12	
PAIS0135	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/28/68-09/16/69	1	8	
PAIS0151	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/21/98-07/21/98	0	1	
PAIS0153	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/20/78-05/20/78	0	1	
PAIS0154	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/20/78-05/20/78	0	1	
PAIS0155	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/20/78-05/20/78	0	1	
PAIS0157	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/20/78-05/20/78	0	1	
PAIS0158	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/20/78-05/20/78	0	1	
PAIS0159	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/20/78-05/20/78	0	1	
PAIS0161	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/20/78-05/20/78	0	1	
PAIS0165	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/08/98-04/09/98	0	2	
PAIS0175	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/18/93-09/27/94	0	38	
PAIS0181	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/09/74-04/06/77	2	9	
PAIS0182	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/23/73-07/29/96	22	221	T,A,S
PAIS0191	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/16/92-09/23/98	6	44127	A
PAIS0209	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/28/68-10/08/70	2	13	
PAIS0213	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/28/68-09/16/69	1	5	
PAIS0254	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	01/06/76-03/09/78	2	5	
PAIS0255	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	01/06/75-07/16/96	21	196	T,A,S
PAIS0004	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/22/68-08/22/68	0	2	
PAIS0007	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/07/70-10/07/70	0	2	
PAIS0009	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/07/70-10/07/70	0	2	
PAIS0010	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/20/68-06/03/75	6	46	
PAIS0011	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/20/68-08/20/68	0	1	
PAIS0012	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM 25C)	08/20/68-08/25/76	8	44	

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

Station/Parameter Period of Record Tabulation
From 05/01/41 To 09/23/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
PAIS0013	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/11/69-10/07/70	1	4	
PAIS0015	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/26/71-09/17/74	2	12	
PAIS0016	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/20/68-10/22/74	6	33	
PAIS0018	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/09/69-10/09/86	17	48	
PAIS0019	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/09/69-07/07/87	17	56	T
PAIS0020	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/11/79-03/29/82	2	14	
PAIS0022	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/22/68-03/29/82	13	88	T
PAIS0023	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/22/68-03/29/82	13	61	T
PAIS0028	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/22/68-03/29/82	13	24	
PAIS0030	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/23/68-06/04/75	6	39	
PAIS0031	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/07/70-10/07/70	0	2	
PAIS0032	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/23/68-06/04/75	6	20	
PAIS0033	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/07/70-10/07/70	0	2	
PAIS0034	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/23/68-06/27/78	9	8	
PAIS0044	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/23/72-07/07/87	15	48	
PAIS0048	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/23/68-08/23/68	0	2	
PAIS0049	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/23/68-03/30/82	13	70	T
PAIS0050	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/23/68-08/26/76	8	52	
PAIS0051	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/11/69-10/07/70	1	4	
PAIS0053	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/23/72-09/17/74	2	10	
PAIS0054	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/26/68-03/30/82	13	16	
PAIS0055	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/26/68-03/30/82	13	61	T
PAIS0062	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/26/68-06/04/75	6	16	
PAIS0063	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/26/68-06/04/75	6	43	
PAIS0064	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/26/68-08/26/68	0	1	
PAIS0076	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/11/79-03/30/82	2	12	
PAIS0077	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/22/77-04/11/79	1	6	
PAIS0080	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/26/68-03/01/78	9	32	
PAIS0081	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/26/68-03/30/82	13	88	T,A
PAIS0082	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/26/68-08/26/76	8	49	
PAIS0085	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/16/69-09/16/69	0	1	
PAIS0096	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/27/68-06/27/78	9	34	
PAIS0098	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/15/69-09/15/69	0	1	
PAIS0099	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/08/75-10/07/76	1	8	
PAIS0100	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/27/72-02/02/88	15	42	
PAIS0101	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/27/72-07/17/74	2	11	
PAIS0118	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/27/68-08/27/68	0	1	
PAIS0119	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/27/68-03/30/82	13	29	
PAIS0121	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/27/68-03/30/82	13	77	T
PAIS0146	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/28/68-06/04/75	6	35	
PAIS0149	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/23/73-07/17/74	0	4	
PAIS0181	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/08/75-07/06/77	2	11	
PAIS0182	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/23/73-02/02/88	14	38	
PAIS0202	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/03/67-10/03/67	0	6	
PAIS0209	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/16/69-10/08/70	1	4	
PAIS0210	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/28/68-03/30/82	13	61	T
PAIS0219	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/28/68-03/30/82	13	37	
PAIS0252	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/15/73-08/15/74	1	5	
PAIS0253	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/15/73-08/15/74	1	7	
PAIS0254	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/06/75-07/06/77	2	9	
PAIS0255	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/09/78-02/02/88	9	34	
PAIS0256	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/15/73-08/15/74	1	7	
PAIS0257	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/15/73-08/15/74	1	2	
PAIS0003	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/22/68-08/22/68	0	2	
PAIS0007	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/20/68-10/07/70	2	15	
PAIS0009	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/20/68-10/07/70	2	15	
PAIS0011	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/20/68-10/07/70	2	12	
PAIS0013	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/20/68-10/07/70	2	12	
PAIS0024	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/22/68-10/07/70	2	7	
PAIS0025	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/22/68-10/07/70	2	13	
PAIS0026	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/22/68-10/07/70	2	7	
PAIS0031	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/23/68-10/07/70	2	10	
PAIS0033	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/23/68-10/07/70	2	6	
PAIS0045	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	03/17/75-06/06/78	3	17	
PAIS0048	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/23/68-10/07/70	2	17	
PAIS0051	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/23/68-10/07/70	2	17	
PAIS0052	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	09/11/69-09/11/69	0	1	
PAIS0056	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/26/68-10/07/70	2	20	
PAIS0057	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/26/68-10/07/70	2	4	
PAIS0061	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/26/68-10/07/70	2	7	
PAIS0064	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/26/68-10/07/70	2	16	
PAIS0083	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/26/68-09/16/69	1	6	

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

Station/Parameter Period of Record Tabulation
From 05/01/41 To 09/23/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
PAIS0084	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	09/16/69-09/16/69	0	3	
PAIS0085	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/26/68-09/16/69	1	9	
PAIS0086	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/26/68-09/16/69	1	4	
PAIS0098	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/27/68-09/16/69	1	9	
PAIS0099	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	04/09/74-06/06/78	4	7	
PAIS0117	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/27/68-09/16/69	1	4	
PAIS0118	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/27/68-09/16/69	1	12	
PAIS0135	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/28/68-09/16/69	1	8	
PAIS0151	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/21/98-07/21/98	0	1	
PAIS0165	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	04/08/98-04/09/98	0	2	
PAIS0181	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	04/09/74-06/06/78	4	13	
PAIS0191	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/16/92-08/25/98	6	37206	A
PAIS0209	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/28/68-10/08/70	2	13	
PAIS0213	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/28/68-09/16/69	1	5	
PAIS0254	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/16/75-06/06/78	2	14	
PAIS0004	No	00300	OXYGEN, DISSOLVED MG/L	08/22/68-08/22/68	0	2	
PAIS0008	No	00300	OXYGEN, DISSOLVED MG/L	10/13/83-10/13/83	0	8	
PAIS0010	No	00300	OXYGEN, DISSOLVED MG/L	08/20/68-06/03/75	6	43	
PAIS0012	No	00300	OXYGEN, DISSOLVED MG/L	08/20/68-08/25/76	8	41	
PAIS0015	No	00300	OXYGEN, DISSOLVED MG/L	11/26/71-09/17/74	2	12	
PAIS0016	Yes	00300	OXYGEN, DISSOLVED MG/L	08/20/68-10/22/74	6	30	
PAIS0018	No	00300	OXYGEN, DISSOLVED MG/L	09/09/69-08/30/94	24	101	T,S
PAIS0019	No	00300	OXYGEN, DISSOLVED MG/L	09/09/69-07/16/96	26	156	T,S
PAIS0020	No	00300	OXYGEN, DISSOLVED MG/L	04/11/79-03/29/82	2	14	
PAIS0022	No	00300	OXYGEN, DISSOLVED MG/L	08/22/68-03/29/82	13	88	T
PAIS0023	No	00300	OXYGEN, DISSOLVED MG/L	08/22/68-03/29/82	13	62	T
PAIS0028	No	00300	OXYGEN, DISSOLVED MG/L	08/22/68-03/29/82	13	24	
PAIS0030	No	00300	OXYGEN, DISSOLVED MG/L	08/23/68-02/05/75	6	34	
PAIS0032	No	00300	OXYGEN, DISSOLVED MG/L	08/23/68-10/23/74	6	18	
PAIS0034	No	00300	OXYGEN, DISSOLVED MG/L	08/23/68-06/27/78	9	8	
PAIS0044	No	00300	OXYGEN, DISSOLVED MG/L	02/23/72-04/21/94	22	124	T,S
PAIS0049	No	00300	OXYGEN, DISSOLVED MG/L	08/23/68-03/30/82	13	64	T
PAIS0050	No	00300	OXYGEN, DISSOLVED MG/L	08/23/68-08/26/76	8	49	
PAIS0053	No	00300	OXYGEN, DISSOLVED MG/L	02/23/72-09/17/74	2	10	
PAIS0054	No	00300	OXYGEN, DISSOLVED MG/L	08/26/68-03/30/82	13	16	
PAIS0055	No	00300	OXYGEN, DISSOLVED MG/L	08/26/68-03/30/82	13	61	T
PAIS0058	No	00300	OXYGEN, DISSOLVED MG/L	10/01/85-10/01/85	0	3	
PAIS0062	No	00300	OXYGEN, DISSOLVED MG/L	08/26/68-02/05/75	6	14	
PAIS0063	No	00300	OXYGEN, DISSOLVED MG/L	08/26/68-06/04/75	6	43	
PAIS0069	No	00300	OXYGEN, DISSOLVED MG/L	01/15/71-11/15/71	0	9	
PAIS0071	No	00300	OXYGEN, DISSOLVED MG/L	01/15/71-11/15/71	0	9	
PAIS0073	No	00300	OXYGEN, DISSOLVED MG/L	01/15/71-11/15/71	0	9	
PAIS0076	No	00300	OXYGEN, DISSOLVED MG/L	10/11/79-03/30/82	2	12	
PAIS0077	No	00300	OXYGEN, DISSOLVED MG/L	06/22/77-04/11/79	1	6	
PAIS0078	Yes	00300	OXYGEN, DISSOLVED MG/L	01/15/71-11/15/71	0	9	
PAIS0080	Yes	00300	OXYGEN, DISSOLVED MG/L	08/26/68-03/01/78	9	32	
PAIS0081	No	00300	OXYGEN, DISSOLVED MG/L	08/26/68-03/30/82	13	88	T,A
PAIS0082	No	00300	OXYGEN, DISSOLVED MG/L	08/26/68-08/26/76	8	49	
PAIS0088	No	00300	OXYGEN, DISSOLVED MG/L	01/15/71-11/15/71	0	9	
PAIS0096	No	00300	OXYGEN, DISSOLVED MG/L	08/27/68-06/27/78	9	34	
PAIS0099	No	00300	OXYGEN, DISSOLVED MG/L	01/08/75-01/08/75	0	1	
PAIS0100	No	00300	OXYGEN, DISSOLVED MG/L	02/27/72-07/25/96	24	179	T,A,S
PAIS0101	No	00300	OXYGEN, DISSOLVED MG/L	02/27/72-07/17/74	2	11	
PAIS0113	No	00300	OXYGEN, DISSOLVED MG/L	01/15/71-11/15/71	0	9	
PAIS0119	Yes	00300	OXYGEN, DISSOLVED MG/L	08/27/68-03/30/82	13	29	
PAIS0121	No	00300	OXYGEN, DISSOLVED MG/L	08/27/68-03/30/82	13	77	T
PAIS0129	Yes	00300	OXYGEN, DISSOLVED MG/L	01/15/71-12/15/71	0	10	
PAIS0136	Yes	00300	OXYGEN, DISSOLVED MG/L	09/15/89-08/15/90	0	12	
PAIS0138	No	00300	OXYGEN, DISSOLVED MG/L	01/15/71-12/15/71	0	11	
PAIS0140	Yes	00300	OXYGEN, DISSOLVED MG/L	01/15/71-12/15/71	0	12	
PAIS0146	No	00300	OXYGEN, DISSOLVED MG/L	08/28/68-06/04/75	6	35	
PAIS0149	Yes	00300	OXYGEN, DISSOLVED MG/L	10/23/73-07/17/74	0	4	
PAIS0152	Yes	00300	OXYGEN, DISSOLVED MG/L	09/15/89-08/15/90	0	12	
PAIS0153	Yes	00300	OXYGEN, DISSOLVED MG/L	05/20/78-05/20/78	0	1	
PAIS0154	Yes	00300	OXYGEN, DISSOLVED MG/L	05/20/78-05/20/78	0	1	
PAIS0155	Yes	00300	OXYGEN, DISSOLVED MG/L	05/20/78-05/20/78	0	1	
PAIS0157	Yes	00300	OXYGEN, DISSOLVED MG/L	05/20/78-05/20/78	0	1	
PAIS0158	Yes	00300	OXYGEN, DISSOLVED MG/L	05/20/78-05/20/78	0	1	
PAIS0159	Yes	00300	OXYGEN, DISSOLVED MG/L	05/20/78-05/20/78	0	1	
PAIS0161	Yes	00300	OXYGEN, DISSOLVED MG/L	05/20/78-05/20/78	0	1	
PAIS0172	Yes	00300	OXYGEN, DISSOLVED MG/L	09/15/89-08/15/90	0	12	
PAIS0175	No	00300	OXYGEN, DISSOLVED MG/L	11/18/93-09/27/94	0	35	

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

Station/Parameter Period of Record Tabulation
From 05/01/41 To 09/23/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
PAIS0182	No	00300	OXYGEN, DISSOLVED MG/L	10/23/73-07/29/96	22	200	T,A,S
PAIS0198	Yes	00300	OXYGEN, DISSOLVED MG/L	01/15/71-12/15/71	0	11	
PAIS0202	Yes	00300	OXYGEN, DISSOLVED MG/L	10/03/67-10/03/67	0	6	
PAIS0206	No	00300	OXYGEN, DISSOLVED MG/L	01/15/71-12/15/71	0	12	
PAIS0210	No	00300	OXYGEN, DISSOLVED MG/L	08/28/68-03/30/82	13	61	T
PAIS0214	Yes	00300	OXYGEN, DISSOLVED MG/L	01/15/71-12/15/71	0	12	
PAIS0219	No	00300	OXYGEN, DISSOLVED MG/L	08/28/68-03/30/82	13	37	
PAIS0241	No	00300	OXYGEN, DISSOLVED MG/L	01/15/71-12/15/71	0	12	
PAIS0252	No	00300	OXYGEN, DISSOLVED MG/L	01/15/73-08/15/74	1	4	
PAIS0253	No	00300	OXYGEN, DISSOLVED MG/L	01/15/73-08/15/74	1	7	
PAIS0255	No	00300	OXYGEN, DISSOLVED MG/L	01/06/75-07/16/96	21	177	T,A,S
PAIS0256	No	00300	OXYGEN, DISSOLVED MG/L	01/15/73-08/15/74	1	7	
PAIS0257	No	00300	OXYGEN, DISSOLVED MG/L	01/15/73-08/15/74	1	2	
PAIS0003	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/22/68-08/22/68	0	2	
PAIS0004	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/22/68-08/22/68	0	2	
PAIS0007	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/20/68-10/07/70	2	15	
PAIS0009	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/20/68-10/07/70	2	15	
PAIS0010	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/20/68-06/03/75	6	43	
PAIS0011	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/20/68-10/07/70	2	12	
PAIS0012	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/20/68-08/25/76	8	41	
PAIS0013	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/20/68-10/07/70	2	12	
PAIS0015	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	11/26/71-09/17/74	2	11	
PAIS0016	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/20/68-10/22/74	6	30	
PAIS0020	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	04/11/79-03/29/82	2	14	
PAIS0022	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/22/68-03/29/82	13	89	T
PAIS0023	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/22/68-03/29/82	13	62	T
PAIS0024	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/22/68-10/07/70	2	7	
PAIS0025	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/22/68-10/07/70	2	13	
PAIS0026	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/22/68-10/07/70	2	7	
PAIS0028	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/22/68-03/29/82	13	24	
PAIS0030	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/23/68-02/05/75	6	34	
PAIS0031	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/23/68-10/07/70	2	10	
PAIS0032	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/23/68-10/23/74	6	18	
PAIS0033	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/23/68-10/07/70	2	6	
PAIS0034	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/23/68-06/27/78	9	8	
PAIS0048	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/23/68-10/07/70	2	17	
PAIS0049	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/23/68-03/30/82	13	64	T
PAIS0050	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/23/68-08/26/76	8	49	
PAIS0051	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/23/68-10/07/70	2	17	
PAIS0052	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/11/69-09/11/69	0	1	
PAIS0053	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	02/23/72-09/17/74	2	9	
PAIS0054	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/26/68-03/30/82	13	16	
PAIS0055	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/26/68-03/30/82	13	61	T
PAIS0056	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/26/68-10/07/70	2	20	
PAIS0057	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/26/68-10/07/70	2	4	
PAIS0061	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/26/68-10/07/70	2	7	
PAIS0062	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/26/68-02/05/75	6	14	
PAIS0063	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/26/68-06/04/75	6	43	
PAIS0064	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/26/68-10/07/70	2	16	
PAIS0076	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	10/11/79-03/30/82	2	12	
PAIS0077	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/22/77-04/11/79	1	6	
PAIS0080	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/26/68-03/01/78	9	32	
PAIS0081	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/26/68-03/30/82	13	88	T,A
PAIS0082	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/26/68-08/26/76	8	49	
PAIS0083	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/26/68-09/16/69	1	6	
PAIS0084	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/16/69-09/16/69	0	3	
PAIS0085	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/26/68-09/16/69	1	9	
PAIS0086	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/26/68-09/16/69	1	4	
PAIS0096	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/27/68-06/27/78	9	34	
PAIS0098	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/27/68-09/16/69	1	9	
PAIS0101	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	02/27/72-07/17/74	2	11	
PAIS0117	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/27/68-09/16/69	1	4	
PAIS0118	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/27/68-09/16/69	1	12	
PAIS0119	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/27/68-03/30/82	13	29	
PAIS0121	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/27/68-03/30/82	13	77	T
PAIS0135	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/28/68-09/16/69	1	8	
PAIS0146	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/28/68-06/04/75	6	35	
PAIS0149	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	10/23/73-07/17/74	0	4	
PAIS0202	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	10/03/67-10/03/67	0	6	
PAIS0209	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/28/68-10/08/70	2	13	
PAIS0210	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/28/68-03/30/82	13	61	T
PAIS0213	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/28/68-09/16/69	1	5	

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

Station/Parameter Period of Record Tabulation
From 05/01/41 To 09/23/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
PAIS0219	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/28/68-03/30/82	13	37	
PAIS0007	No	00310	BOD, 5 DAY, 20 DEG C MG/L	08/20/68-10/07/70	2	6	
PAIS0009	No	00310	BOD, 5 DAY, 20 DEG C MG/L	09/11/69-10/07/70	1	4	
PAIS0010	No	00310	BOD, 5 DAY, 20 DEG C MG/L	09/11/69-10/07/70	1	4	
PAIS0011	No	00310	BOD, 5 DAY, 20 DEG C MG/L	08/20/68-08/20/68	0	2	
PAIS0012	No	00310	BOD, 5 DAY, 20 DEG C MG/L	08/20/68-08/25/76	8	16	
PAIS0013	No	00310	BOD, 5 DAY, 20 DEG C MG/L	09/11/69-10/07/70	1	4	
PAIS0016	Yes	00310	BOD, 5 DAY, 20 DEG C MG/L	09/11/69-10/07/70	1	4	
PAIS0018	No	00310	BOD, 5 DAY, 20 DEG C MG/L	09/09/69-07/11/73	3	13	
PAIS0019	No	00310	BOD, 5 DAY, 20 DEG C MG/L	09/09/69-06/28/73	3	13	
PAIS0022	No	00310	BOD, 5 DAY, 20 DEG C MG/L	05/23/73-08/26/76	3	28	
PAIS0023	No	00310	BOD, 5 DAY, 20 DEG C MG/L	08/22/68-05/23/73	4	6	
PAIS0025	No	00310	BOD, 5 DAY, 20 DEG C MG/L	08/22/68-08/22/68	0	2	
PAIS0030	No	00310	BOD, 5 DAY, 20 DEG C MG/L	09/11/69-10/07/70	1	3	
PAIS0031	No	00310	BOD, 5 DAY, 20 DEG C MG/L	09/11/69-10/07/70	1	3	
PAIS0032	No	00310	BOD, 5 DAY, 20 DEG C MG/L	09/11/69-10/07/70	1	3	
PAIS0033	No	00310	BOD, 5 DAY, 20 DEG C MG/L	09/11/69-10/07/70	1	4	
PAIS0034	No	00310	BOD, 5 DAY, 20 DEG C MG/L	09/11/69-10/07/70	1	4	
PAIS0044	No	00310	BOD, 5 DAY, 20 DEG C MG/L	02/23/72-06/28/73	1	5	
PAIS0049	No	00310	BOD, 5 DAY, 20 DEG C MG/L	06/04/72-06/04/75	3	14	
PAIS0050	No	00310	BOD, 5 DAY, 20 DEG C MG/L	09/11/69-08/26/76	6	10	
PAIS0051	No	00310	BOD, 5 DAY, 20 DEG C MG/L	09/11/69-10/07/70	1	4	
PAIS0061	No	00310	BOD, 5 DAY, 20 DEG C MG/L	08/26/68-08/26/68	0	1	
PAIS0062	No	00310	BOD, 5 DAY, 20 DEG C MG/L	08/26/68-08/26/68	0	1	
PAIS0063	No	00310	BOD, 5 DAY, 20 DEG C MG/L	08/26/68-08/26/68	0	2	
PAIS0064	No	00310	BOD, 5 DAY, 20 DEG C MG/L	08/26/68-08/26/68	0	2	
PAIS0080	Yes	00310	BOD, 5 DAY, 20 DEG C MG/L	09/16/69-09/16/69	0	2	
PAIS0081	No	00310	BOD, 5 DAY, 20 DEG C MG/L	09/16/69-08/26/76	6	16	
PAIS0082	No	00310	BOD, 5 DAY, 20 DEG C MG/L	09/16/69-02/05/75	5	12	
PAIS0083	Yes	00310	BOD, 5 DAY, 20 DEG C MG/L	09/16/69-09/16/69	0	2	
PAIS0085	No	00310	BOD, 5 DAY, 20 DEG C MG/L	09/16/69-09/16/69	0	2	
PAIS0096	No	00310	BOD, 5 DAY, 20 DEG C MG/L	08/27/68-09/15/69	1	4	
PAIS0098	No	00310	BOD, 5 DAY, 20 DEG C MG/L	08/27/68-09/15/69	1	4	
PAIS0100	No	00310	BOD, 5 DAY, 20 DEG C MG/L	02/27/72-07/03/73	1	7	
PAIS0117	Yes	00310	BOD, 5 DAY, 20 DEG C MG/L	09/16/69-09/16/69	0	1	
PAIS0118	No	00310	BOD, 5 DAY, 20 DEG C MG/L	08/27/68-09/16/69	1	4	
PAIS0119	Yes	00310	BOD, 5 DAY, 20 DEG C MG/L	09/16/69-03/30/82	12	12	
PAIS0121	No	00310	BOD, 5 DAY, 20 DEG C MG/L	08/27/68-02/11/76	7	15	
PAIS0151	Yes	00310	BOD, 5 DAY, 20 DEG C MG/L	07/21/98-07/21/98	0	1	
PAIS0165	Yes	00310	BOD, 5 DAY, 20 DEG C MG/L	04/08/98-04/08/98	0	1	
PAIS0209	No	00310	BOD, 5 DAY, 20 DEG C MG/L	08/28/68-10/08/70	2	5	
PAIS0210	No	00310	BOD, 5 DAY, 20 DEG C MG/L	08/28/68-10/08/70	2	6	
PAIS0213	No	00310	BOD, 5 DAY, 20 DEG C MG/L	09/16/69-09/16/69	0	1	
PAIS0219	No	00310	BOD, 5 DAY, 20 DEG C MG/L	09/16/69-06/27/78	8	2	
PAIS0016	Yes	00335	COD, .025N K2CR2O7 MG/L	10/07/70-10/07/70	0	2	
PAIS0023	No	00335	COD, .025N K2CR2O7 MG/L	09/27/72-09/27/72	0	2	
PAIS0050	No	00335	COD, .025N K2CR2O7 MG/L	10/07/70-10/07/70	0	2	
PAIS0210	No	00335	COD, .025N K2CR2O7 MG/L	10/08/70-10/08/70	0	2	
PAIS0182	No	00339	COD, BOTTOM DEPOSITS, DRY WEIGHT MG/KG	10/23/73-06/06/78	4	4	
PAIS0151	Yes	00340	COD, .25N K2CR2O7 MG/L	07/21/98-07/21/98	0	1	
PAIS0165	Yes	00340	COD, .25N K2CR2O7 MG/L	04/08/98-04/08/98	0	1	
PAIS0004	No	00400	PH (STANDARD UNITS)	08/22/68-08/22/68	0	2	
PAIS0008	No	00400	PH (STANDARD UNITS)	10/13/83-10/13/83	0	8	
PAIS0010	No	00400	PH (STANDARD UNITS)	08/20/68-02/04/75	6	42	
PAIS0012	No	00400	PH (STANDARD UNITS)	08/20/68-08/25/76	8	44	
PAIS0015	No	00400	PH (STANDARD UNITS)	02/23/72-09/17/74	2	11	
PAIS0016	Yes	00400	PH (STANDARD UNITS)	08/20/68-10/22/74	6	33	
PAIS0018	No	00400	PH (STANDARD UNITS)	10/07/70-08/30/94	23	91	T,S
PAIS0019	No	00400	PH (STANDARD UNITS)	10/07/70-07/16/96	25	139	T,S
PAIS0020	No	00400	PH (STANDARD UNITS)	04/11/79-03/29/82	2	14	
PAIS0022	No	00400	PH (STANDARD UNITS)	08/22/68-03/29/82	13	83	T
PAIS0023	No	00400	PH (STANDARD UNITS)	08/22/68-03/29/82	13	60	T
PAIS0028	No	00400	PH (STANDARD UNITS)	08/22/68-03/29/82	13	24	
PAIS0030	No	00400	PH (STANDARD UNITS)	08/23/68-06/04/75	6	33	
PAIS0032	No	00400	PH (STANDARD UNITS)	08/23/68-06/04/75	6	18	
PAIS0034	No	00400	PH (STANDARD UNITS)	08/23/68-06/27/78	9	8	
PAIS0044	No	00400	PH (STANDARD UNITS)	02/23/72-04/21/94	22	129	T,A,S
PAIS0045	No	00400	PH (STANDARD UNITS)	03/17/75-03/17/77	2	4	
PAIS0049	No	00400	PH (STANDARD UNITS)	08/23/68-03/30/82	13	66	T
PAIS0050	No	00400	PH (STANDARD UNITS)	08/23/68-08/26/76	8	47	
PAIS0053	No	00400	PH (STANDARD UNITS)	02/23/72-09/17/74	2	10	
PAIS0054	No	00400	PH (STANDARD UNITS)	08/26/68-03/30/82	13	16	

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

Station/Parameter Period of Record Tabulation
From 05/01/41 To 09/23/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
PAIS0055	No	00400	PH (STANDARD UNITS)	08/26/68-03/30/82	13	61	T
PAIS0058	No	00400	PH (STANDARD UNITS)	10/01/85-10/01/85	0	3	
PAIS0062	No	00400	PH (STANDARD UNITS)	08/26/68-06/04/75	6	14	
PAIS0063	No	00400	PH (STANDARD UNITS)	08/26/68-06/04/75	6	39	
PAIS0069	No	00400	PH (STANDARD UNITS)	01/15/71-11/15/71	0	9	
PAIS0071	No	00400	PH (STANDARD UNITS)	01/15/71-11/15/71	0	9	
PAIS0073	No	00400	PH (STANDARD UNITS)	01/15/71-11/15/71	0	9	
PAIS0076	No	00400	PH (STANDARD UNITS)	10/11/79-03/30/82	2	12	
PAIS0077	No	00400	PH (STANDARD UNITS)	06/22/77-04/11/79	1	6	
PAIS0078	Yes	00400	PH (STANDARD UNITS)	01/15/71-11/15/71	0	9	
PAIS0080	Yes	00400	PH (STANDARD UNITS)	08/26/68-03/01/78	9	30	
PAIS0081	No	00400	PH (STANDARD UNITS)	08/26/68-03/30/82	13	85	T,A
PAIS0082	No	00400	PH (STANDARD UNITS)	08/26/68-08/26/76	8	44	
PAIS0088	No	00400	PH (STANDARD UNITS)	01/15/71-11/15/71	0	9	
PAIS0096	No	00400	PH (STANDARD UNITS)	08/27/68-06/27/78	9	34	
PAIS0099	No	00400	PH (STANDARD UNITS)	10/02/74-01/11/77	2	3	
PAIS0100	No	00400	PH (STANDARD UNITS)	02/27/72-07/25/96	24	173	T,A,S
PAIS0101	No	00400	PH (STANDARD UNITS)	02/27/72-07/17/74	2	11	
PAIS0113	No	00400	PH (STANDARD UNITS)	01/15/71-11/15/71	0	9	
PAIS0119	Yes	00400	PH (STANDARD UNITS)	08/27/68-03/30/82	13	29	
PAIS0121	No	00400	PH (STANDARD UNITS)	08/27/68-03/30/82	13	77	T
PAIS0129	Yes	00400	PH (STANDARD UNITS)	01/15/71-12/15/71	0	10	
PAIS0138	No	00400	PH (STANDARD UNITS)	01/15/71-12/15/71	0	11	
PAIS0140	Yes	00400	PH (STANDARD UNITS)	01/15/71-12/15/71	0	12	
PAIS0146	No	00400	PH (STANDARD UNITS)	08/28/68-06/04/75	6	27	
PAIS0149	Yes	00400	PH (STANDARD UNITS)	10/23/73-07/17/74	0	4	
PAIS0175	No	00400	PH (STANDARD UNITS)	11/18/93-09/27/94	0	37	
PAIS0181	No	00400	PH (STANDARD UNITS)	10/02/74-07/06/77	2	5	
PAIS0182	No	00400	PH (STANDARD UNITS)	10/23/73-07/29/96	22	190	T,A,S
PAIS0198	Yes	00400	PH (STANDARD UNITS)	01/15/71-12/15/71	0	11	
PAIS0206	No	00400	PH (STANDARD UNITS)	01/15/71-12/15/71	0	12	
PAIS0210	No	00400	PH (STANDARD UNITS)	08/28/68-03/30/82	13	61	T
PAIS0214	Yes	00400	PH (STANDARD UNITS)	01/15/71-12/15/71	0	12	
PAIS0219	No	00400	PH (STANDARD UNITS)	08/28/68-03/30/82	13	35	
PAIS0241	No	00400	PH (STANDARD UNITS)	01/15/71-12/15/71	0	11	
PAIS0252	No	00400	PH (STANDARD UNITS)	01/15/73-08/15/74	1	4	
PAIS0253	No	00400	PH (STANDARD UNITS)	01/15/73-08/15/74	1	7	
PAIS0254	No	00400	PH (STANDARD UNITS)	10/27/75-03/09/78	2	5	
PAIS0255	No	00400	PH (STANDARD UNITS)	01/06/75-07/16/96	21	168	T,A,S
PAIS0256	No	00400	PH (STANDARD UNITS)	01/15/73-08/15/74	1	7	
PAIS0257	No	00400	PH (STANDARD UNITS)	01/15/73-08/15/74	1	2	
PAIS0018	No	00403	PH, LAB, STANDARD UNITS SU	09/09/69-10/09/86	17	48	
PAIS0019	No	00403	PH, LAB, STANDARD UNITS SU	09/09/69-07/07/87	17	56	T
PAIS0023	No	00403	PH, LAB, STANDARD UNITS SU	11/18/80-03/29/82	1	4	
PAIS0036	No	00403	PH, LAB, STANDARD UNITS SU	12/21/70-09/23/72	1	8	
PAIS0037	No	00403	PH, LAB, STANDARD UNITS SU	12/21/70-09/23/72	1	8	
PAIS0038	No	00403	PH, LAB, STANDARD UNITS SU	12/21/70-09/23/72	1	8	
PAIS0039	No	00403	PH, LAB, STANDARD UNITS SU	12/21/70-09/23/72	1	8	
PAIS0040	No	00403	PH, LAB, STANDARD UNITS SU	12/21/70-09/23/72	1	7	
PAIS0044	No	00403	PH, LAB, STANDARD UNITS SU	02/23/72-07/07/87	15	48	
PAIS0081	No	00403	PH, LAB, STANDARD UNITS SU	11/18/80-03/30/82	1	4	
PAIS0100	No	00403	PH, LAB, STANDARD UNITS SU	02/27/72-02/02/88	15	52	T
PAIS0119	Yes	00403	PH, LAB, STANDARD UNITS SU	11/18/80-03/30/82	1	4	
PAIS0182	No	00403	PH, LAB, STANDARD UNITS SU	10/23/73-02/02/88	14	52	T
PAIS0255	No	00403	PH, LAB, STANDARD UNITS SU	01/06/75-02/02/88	13	46	
PAIS0012	No	00405	CARBON DIOXIDE (MG/L AS CO2)	08/20/68-08/25/76	8	4	
PAIS0016	Yes	00405	CARBON DIOXIDE (MG/L AS CO2)	09/11/69-10/07/70	1	2	
PAIS0022	No	00405	CARBON DIOXIDE (MG/L AS CO2)	06/27/78-06/27/78	0	1	
PAIS0023	No	00405	CARBON DIOXIDE (MG/L AS CO2)	06/21/77-07/16/80	3	5	
PAIS0049	No	00405	CARBON DIOXIDE (MG/L AS CO2)	08/23/68-06/04/75	6	9	
PAIS0050	No	00405	CARBON DIOXIDE (MG/L AS CO2)	09/11/69-08/26/76	6	6	
PAIS0063	No	00405	CARBON DIOXIDE (MG/L AS CO2)	08/26/68-08/26/68	0	1	
PAIS0081	No	00405	CARBON DIOXIDE (MG/L AS CO2)	09/16/69-07/16/80	10	11	
PAIS0082	No	00405	CARBON DIOXIDE (MG/L AS CO2)	09/16/69-02/05/75	5	3	
PAIS0096	No	00405	CARBON DIOXIDE (MG/L AS CO2)	09/15/69-06/27/78	8	2	
PAIS0119	Yes	00405	CARBON DIOXIDE (MG/L AS CO2)	03/01/78-07/16/80	2	4	
PAIS0121	No	00405	CARBON DIOXIDE (MG/L AS CO2)	08/27/68-10/17/73	5	2	
PAIS0210	No	00405	CARBON DIOXIDE (MG/L AS CO2)	08/28/68-09/16/69	1	3	
PAIS0003	No	00406	PH, FIELD, STANDARD UNITS SU	08/22/68-08/22/68	0	2	
PAIS0007	No	00406	PH, FIELD, STANDARD UNITS SU	08/20/68-10/07/70	2	15	
PAIS0009	No	00406	PH, FIELD, STANDARD UNITS SU	08/20/68-10/07/70	2	15	
PAIS0011	No	00406	PH, FIELD, STANDARD UNITS SU	08/20/68-10/07/70	2	12	

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

Station/Parameter Period of Record Tabulation
From 05/01/41 To 09/23/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
PAIS0013	No	00406	PH, FIELD, STANDARD UNITS SU	08/20/68-10/07/70	2	12	
PAIS0024	No	00406	PH, FIELD, STANDARD UNITS SU	08/22/68-10/07/70	2	7	
PAIS0025	No	00406	PH, FIELD, STANDARD UNITS SU	08/22/68-10/07/70	2	13	
PAIS0026	No	00406	PH, FIELD, STANDARD UNITS SU	08/22/68-10/07/70	2	7	
PAIS0031	No	00406	PH, FIELD, STANDARD UNITS SU	08/23/68-10/07/70	2	10	
PAIS0033	No	00406	PH, FIELD, STANDARD UNITS SU	08/23/68-10/07/70	2	6	
PAIS0048	No	00406	PH, FIELD, STANDARD UNITS SU	08/23/68-10/07/70	2	17	
PAIS0051	No	00406	PH, FIELD, STANDARD UNITS SU	08/23/68-10/07/70	2	17	
PAIS0052	No	00406	PH, FIELD, STANDARD UNITS SU	09/11/69-09/11/69	0	1	
PAIS0056	No	00406	PH, FIELD, STANDARD UNITS SU	08/26/68-10/07/70	2	20	
PAIS0057	No	00406	PH, FIELD, STANDARD UNITS SU	08/26/68-10/07/70	2	4	
PAIS0061	No	00406	PH, FIELD, STANDARD UNITS SU	08/26/68-10/07/70	2	7	
PAIS0064	No	00406	PH, FIELD, STANDARD UNITS SU	08/26/68-10/07/70	2	16	
PAIS0083	Yes	00406	PH, FIELD, STANDARD UNITS SU	08/26/68-09/16/69	1	6	
PAIS0084	No	00406	PH, FIELD, STANDARD UNITS SU	09/16/69-09/16/69	0	3	
PAIS0085	No	00406	PH, FIELD, STANDARD UNITS SU	08/26/68-09/16/69	1	9	
PAIS0086	No	00406	PH, FIELD, STANDARD UNITS SU	08/26/68-09/16/69	1	4	
PAIS0098	No	00406	PH, FIELD, STANDARD UNITS SU	08/27/68-09/16/69	1	9	
PAIS0117	Yes	00406	PH, FIELD, STANDARD UNITS SU	08/27/68-09/16/69	1	4	
PAIS0118	No	00406	PH, FIELD, STANDARD UNITS SU	08/27/68-09/16/69	1	12	
PAIS0135	No	00406	PH, FIELD, STANDARD UNITS SU	08/28/68-09/16/69	1	8	
PAIS0136	Yes	00406	PH, FIELD, STANDARD UNITS SU	09/15/89-08/15/90	0	12	
PAIS0151	Yes	00406	PH, FIELD, STANDARD UNITS SU	07/21/98-07/21/98	0	1	
PAIS0152	Yes	00406	PH, FIELD, STANDARD UNITS SU	09/15/89-08/15/90	0	12	
PAIS0153	Yes	00406	PH, FIELD, STANDARD UNITS SU	05/20/78-05/20/78	0	1	
PAIS0154	Yes	00406	PH, FIELD, STANDARD UNITS SU	05/20/78-05/20/78	0	1	
PAIS0155	Yes	00406	PH, FIELD, STANDARD UNITS SU	05/20/78-05/20/78	0	1	
PAIS0157	Yes	00406	PH, FIELD, STANDARD UNITS SU	05/20/78-05/20/78	0	1	
PAIS0158	Yes	00406	PH, FIELD, STANDARD UNITS SU	05/20/78-05/20/78	0	1	
PAIS0159	Yes	00406	PH, FIELD, STANDARD UNITS SU	05/20/78-05/20/78	0	1	
PAIS0161	Yes	00406	PH, FIELD, STANDARD UNITS SU	05/20/78-05/20/78	0	1	
PAIS0165	Yes	00406	PH, FIELD, STANDARD UNITS SU	04/08/98-04/09/98	0	2	
PAIS0172	Yes	00406	PH, FIELD, STANDARD UNITS SU	09/15/89-08/15/90	0	12	
PAIS0191	Yes	00406	PH, FIELD, STANDARD UNITS SU	06/16/92-04/07/94	1	9277	
PAIS0209	No	00406	PH, FIELD, STANDARD UNITS SU	08/28/68-10/08/70	2	13	
PAIS0213	No	00406	PH, FIELD, STANDARD UNITS SU	08/28/68-09/16/69	1	5	
PAIS0012	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/20/68-08/25/76	8	4	
PAIS0016	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/11/69-10/07/70	1	2	
PAIS0018	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	02/06/78-08/30/94	16	34	
PAIS0019	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	02/06/78-05/15/96	18	56	T
PAIS0022	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/27/78-06/27/78	0	1	
PAIS0023	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	02/01/77-03/29/82	5	10	
PAIS0044	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	02/06/78-04/21/94	16	51	T
PAIS0049	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/23/68-06/04/75	6	11	
PAIS0050	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/11/69-08/26/76	6	6	
PAIS0063	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/26/68-08/26/68	0	1	
PAIS0081	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/16/69-03/30/82	12	19	
PAIS0082	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/16/69-02/05/75	5	5	
PAIS0096	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/15/69-06/27/78	8	2	
PAIS0100	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/07/76-07/25/96	19	73	T
PAIS0119	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/22/77-03/30/82	4	9	
PAIS0121	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/27/68-02/01/77	8	3	
PAIS0151	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/21/98-07/21/98	0	1	
PAIS0153	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/20/78-05/20/78	0	1	
PAIS0154	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/20/78-05/20/78	0	1	
PAIS0155	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/20/78-05/20/78	0	1	
PAIS0157	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/20/78-05/20/78	0	1	
PAIS0158	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/20/78-05/20/78	0	1	
PAIS0159	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/20/78-05/20/78	0	1	
PAIS0161	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/20/78-05/20/78	0	1	
PAIS0165	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/08/98-04/08/98	0	1	
PAIS0182	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/07/76-07/29/96	19	78	T
PAIS0210	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/28/68-09/16/69	1	3	
PAIS0255	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/07/76-07/16/96	19	79	T
PAIS0018	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	10/09/86-10/09/86	0	1	
PAIS0019	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	10/09/86-10/09/86	0	1	
PAIS0136	Yes	00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	10/15/89-08/15/90	0	11	
PAIS0152	Yes	00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	10/15/89-08/15/90	0	11	
PAIS0172	Yes	00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	10/15/89-08/15/90	0	11	
PAIS0007	No	00440	BICARBONATE ION (MG/L AS HCO3)	08/20/68-08/20/68	0	1	
PAIS0011	No	00440	BICARBONATE ION (MG/L AS HCO3)	08/20/68-08/20/68	0	1	
PAIS0012	No	00440	BICARBONATE ION (MG/L AS HCO3)	08/20/68-08/25/76	8	4	

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

Station/Parameter Period of Record Tabulation
From 05/01/41 To 09/23/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
PAIS0013	No	00440	BICARBONATE ION (MG/L AS HCO3)	09/11/69-10/07/70	1	2	
PAIS0016	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	09/11/69-10/07/70	1	2	
PAIS0022	No	00440	BICARBONATE ION (MG/L AS HCO3)	06/27/78-06/27/78	0	1	
PAIS0023	No	00440	BICARBONATE ION (MG/L AS HCO3)	02/01/77-07/16/80	3	6	
PAIS0048	No	00440	BICARBONATE ION (MG/L AS HCO3)	08/23/68-08/23/68	0	2	
PAIS0049	No	00440	BICARBONATE ION (MG/L AS HCO3)	08/23/68-06/04/75	6	10	
PAIS0050	No	00440	BICARBONATE ION (MG/L AS HCO3)	09/11/69-08/26/76	6	6	
PAIS0051	No	00440	BICARBONATE ION (MG/L AS HCO3)	09/11/69-10/07/70	1	3	
PAIS0063	No	00440	BICARBONATE ION (MG/L AS HCO3)	08/26/68-08/26/68	0	1	
PAIS0064	No	00440	BICARBONATE ION (MG/L AS HCO3)	08/26/68-08/26/68	0	1	
PAIS0081	No	00440	BICARBONATE ION (MG/L AS HCO3)	09/16/69-07/16/80	10	15	
PAIS0082	No	00440	BICARBONATE ION (MG/L AS HCO3)	09/16/69-02/05/75	5	5	
PAIS0085	No	00440	BICARBONATE ION (MG/L AS HCO3)	09/16/69-09/16/69	0	1	
PAIS0096	No	00440	BICARBONATE ION (MG/L AS HCO3)	09/15/69-06/27/78	8	2	
PAIS0098	No	00440	BICARBONATE ION (MG/L AS HCO3)	09/15/69-09/15/69	0	1	
PAIS0100	No	00440	BICARBONATE ION (MG/L AS HCO3)	08/03/83-08/08/84	1	2	
PAIS0118	No	00440	BICARBONATE ION (MG/L AS HCO3)	08/27/68-08/27/68	0	1	
PAIS0119	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	06/22/77-07/16/80	3	5	
PAIS0121	No	00440	BICARBONATE ION (MG/L AS HCO3)	08/27/68-02/01/77	8	3	
PAIS0182	No	00440	BICARBONATE ION (MG/L AS HCO3)	08/03/83-08/03/83	0	1	
PAIS0209	No	00440	BICARBONATE ION (MG/L AS HCO3)	08/28/68-09/16/69	1	3	
PAIS0210	No	00440	BICARBONATE ION (MG/L AS HCO3)	08/28/68-09/16/69	1	3	
PAIS0255	No	00440	BICARBONATE ION (MG/L AS HCO3)	08/03/83-08/03/83	0	1	
PAIS0012	No	00445	CARBONATE ION (MG/L AS CO3)	10/30/75-02/10/76	0	2	
PAIS0022	No	00445	CARBONATE ION (MG/L AS CO3)	06/27/78-06/27/78	0	1	
PAIS0023	No	00445	CARBONATE ION (MG/L AS CO3)	02/01/77-07/16/80	3	6	
PAIS0049	No	00445	CARBONATE ION (MG/L AS CO3)	04/24/74-10/23/74	0	2	
PAIS0050	No	00445	CARBONATE ION (MG/L AS CO3)	10/30/75-02/11/76	0	2	
PAIS0081	No	00445	CARBONATE ION (MG/L AS CO3)	10/23/74-07/16/80	5	10	
PAIS0082	No	00445	CARBONATE ION (MG/L AS CO3)	10/23/74-10/23/74	0	1	
PAIS0096	No	00445	CARBONATE ION (MG/L AS CO3)	06/27/78-06/27/78	0	1	
PAIS0100	No	00445	CARBONATE ION (MG/L AS CO3)	08/03/83-08/03/83	0	1	
PAIS0119	Yes	00445	CARBONATE ION (MG/L AS CO3)	06/22/77-07/16/80	3	5	
PAIS0121	No	00445	CARBONATE ION (MG/L AS CO3)	02/01/77-02/01/77	0	1	
PAIS0182	No	00445	CARBONATE ION (MG/L AS CO3)	08/03/83-08/03/83	0	1	
PAIS0255	No	00445	CARBONATE ION (MG/L AS CO3)	08/03/83-08/03/83	0	1	
PAIS0005	No	00480	SALINITY - PARTS PER THOUSAND	08/01/57-11/01/58	1	5	
PAIS0006	No	00480	SALINITY - PARTS PER THOUSAND	07/15/54-09/15/56	2	15	
PAIS0014	No	00480	SALINITY - PARTS PER THOUSAND	08/01/57-11/01/58	1	5	
PAIS0018	No	00480	SALINITY - PARTS PER THOUSAND	07/20/88-08/30/94	6	25	
PAIS0019	No	00480	SALINITY - PARTS PER THOUSAND	10/21/87-07/16/96	8	64	A
PAIS0027	No	00480	SALINITY - PARTS PER THOUSAND	07/15/54-06/15/56	1	13	
PAIS0029	No	00480	SALINITY - PARTS PER THOUSAND	07/15/54-06/15/56	1	13	
PAIS0035	No	00480	SALINITY - PARTS PER THOUSAND	07/15/54-06/15/56	1	13	
PAIS0036	No	00480	SALINITY - PARTS PER THOUSAND	09/23/70-09/23/72	2	9	
PAIS0037	No	00480	SALINITY - PARTS PER THOUSAND	09/23/70-09/23/72	2	9	
PAIS0038	No	00480	SALINITY - PARTS PER THOUSAND	09/23/70-09/23/72	2	9	
PAIS0039	No	00480	SALINITY - PARTS PER THOUSAND	09/23/70-09/23/72	2	9	
PAIS0040	No	00480	SALINITY - PARTS PER THOUSAND	12/21/70-09/23/72	1	7	
PAIS0043	No	00480	SALINITY - PARTS PER THOUSAND	08/01/57-11/01/58	1	5	
PAIS0044	No	00480	SALINITY - PARTS PER THOUSAND	04/27/88-04/21/94	5	27	
PAIS0059	No	00480	SALINITY - PARTS PER THOUSAND	11/05/75-11/05/75	0	1	
PAIS0060	No	00480	SALINITY - PARTS PER THOUSAND	11/05/75-11/05/75	0	1	
PAIS0065	No	00480	SALINITY - PARTS PER THOUSAND	11/06/75-11/06/75	0	1	
PAIS0066	No	00480	SALINITY - PARTS PER THOUSAND	11/05/75-11/05/75	0	1	
PAIS0067	No	00480	SALINITY - PARTS PER THOUSAND	11/05/75-11/05/75	0	1	
PAIS0068	No	00480	SALINITY - PARTS PER THOUSAND	11/05/75-11/05/75	0	1	
PAIS0069	No	00480	SALINITY - PARTS PER THOUSAND	01/15/71-11/15/71	0	9	
PAIS0070	No	00480	SALINITY - PARTS PER THOUSAND	11/06/75-11/06/75	0	1	
PAIS0071	No	00480	SALINITY - PARTS PER THOUSAND	01/15/71-11/15/71	0	9	
PAIS0072	No	00480	SALINITY - PARTS PER THOUSAND	12/01/51-06/01/53	1	5	
PAIS0073	No	00480	SALINITY - PARTS PER THOUSAND	01/15/71-11/15/71	0	9	
PAIS0074	No	00480	SALINITY - PARTS PER THOUSAND	11/01/51-06/01/53	1	5	
PAIS0075	No	00480	SALINITY - PARTS PER THOUSAND	08/01/57-11/01/58	1	5	
PAIS0078	Yes	00480	SALINITY - PARTS PER THOUSAND	01/15/71-11/15/71	0	9	
PAIS0079	Yes	00480	SALINITY - PARTS PER THOUSAND	11/01/51-06/01/53	1	7	
PAIS0087	No	00480	SALINITY - PARTS PER THOUSAND	11/06/75-11/06/75	0	1	
PAIS0088	No	00480	SALINITY - PARTS PER THOUSAND	01/15/71-11/15/71	0	9	
PAIS0089	No	00480	SALINITY - PARTS PER THOUSAND	02/01/52-06/01/53	1	5	
PAIS0090	No	00480	SALINITY - PARTS PER THOUSAND	12/11/75-01/14/76	0	2	
PAIS0091	No	00480	SALINITY - PARTS PER THOUSAND	08/01/57-11/01/58	1	5	
PAIS0092	No	00480	SALINITY - PARTS PER THOUSAND	11/06/75-11/06/75	0	1	

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

Station/Parameter Period of Record Tabulation
From 05/01/41 To 09/23/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
PAIS0095	No	00480	SALINITY - PARTS PER THOUSAND	11/06/75-01/14/76	0	2	
PAIS0097	No	00480	SALINITY - PARTS PER THOUSAND	11/06/75-11/06/75	0	1	
PAIS0100	No	00480	SALINITY - PARTS PER THOUSAND	11/14/85-07/25/96	10	59	T
PAIS0105	No	00480	SALINITY - PARTS PER THOUSAND	11/06/75-11/06/75	0	1	
PAIS0107	No	00480	SALINITY - PARTS PER THOUSAND	11/06/75-01/14/76	0	3	
PAIS0108	No	00480	SALINITY - PARTS PER THOUSAND	11/06/75-11/06/75	0	1	
PAIS0109	No	00480	SALINITY - PARTS PER THOUSAND	12/11/75-01/14/76	0	2	
PAIS0111	No	00480	SALINITY - PARTS PER THOUSAND	11/06/75-11/06/75	0	1	
PAIS0112	No	00480	SALINITY - PARTS PER THOUSAND	05/01/41-12/01/55	14	50	
PAIS0113	No	00480	SALINITY - PARTS PER THOUSAND	01/15/71-11/15/71	0	9	
PAIS0114	No	00480	SALINITY - PARTS PER THOUSAND	10/01/51-06/01/53	1	7	
PAIS0116	No	00480	SALINITY - PARTS PER THOUSAND	12/11/75-01/14/76	0	2	
PAIS0120	No	00480	SALINITY - PARTS PER THOUSAND	08/01/57-11/01/58	1	5	
PAIS0122	Yes	00480	SALINITY - PARTS PER THOUSAND	11/06/75-11/06/75	0	1	
PAIS0123	No	00480	SALINITY - PARTS PER THOUSAND	11/06/75-01/14/76	0	3	
PAIS0124	No	00480	SALINITY - PARTS PER THOUSAND	11/06/75-11/06/75	0	1	
PAIS0126	No	00480	SALINITY - PARTS PER THOUSAND	12/11/75-01/14/76	0	2	
PAIS0127	No	00480	SALINITY - PARTS PER THOUSAND	08/01/57-11/01/58	1	5	
PAIS0129	Yes	00480	SALINITY - PARTS PER THOUSAND	01/15/71-12/15/71	0	10	
PAIS0130	Yes	00480	SALINITY - PARTS PER THOUSAND	10/01/51-12/01/53	2	13	
PAIS0131	Yes	00480	SALINITY - PARTS PER THOUSAND	09/19/75-09/19/75	0	1	
PAIS0132	Yes	00480	SALINITY - PARTS PER THOUSAND	09/19/75-09/19/75	0	1	
PAIS0133	No	00480	SALINITY - PARTS PER THOUSAND	06/13/75-01/14/76	0	5	
PAIS0136	Yes	00480	SALINITY - PARTS PER THOUSAND	09/15/89-08/15/90	0	12	
PAIS0137	No	00480	SALINITY - PARTS PER THOUSAND	09/19/75-09/19/75	0	1	
PAIS0138	No	00480	SALINITY - PARTS PER THOUSAND	01/15/71-12/15/71	0	11	
PAIS0139	No	00480	SALINITY - PARTS PER THOUSAND	10/01/51-12/01/53	2	12	
PAIS0140	Yes	00480	SALINITY - PARTS PER THOUSAND	01/15/71-12/15/71	0	12	
PAIS0141	Yes	00480	SALINITY - PARTS PER THOUSAND	11/01/51-12/01/53	2	12	
PAIS0142	Yes	00480	SALINITY - PARTS PER THOUSAND	09/19/75-09/19/75	0	1	
PAIS0143	No	00480	SALINITY - PARTS PER THOUSAND	09/19/75-09/19/75	0	1	
PAIS0144	Yes	00480	SALINITY - PARTS PER THOUSAND	09/19/75-09/19/75	0	1	
PAIS0145	No	00480	SALINITY - PARTS PER THOUSAND	09/19/75-09/19/75	0	1	
PAIS0147	Yes	00480	SALINITY - PARTS PER THOUSAND	09/19/75-12/11/75	0	2	
PAIS0148	No	00480	SALINITY - PARTS PER THOUSAND	06/13/75-01/14/76	0	4	
PAIS0152	Yes	00480	SALINITY - PARTS PER THOUSAND	09/15/89-08/15/90	0	12	
PAIS0156	No	00480	SALINITY - PARTS PER THOUSAND	09/19/75-12/11/75	0	2	
PAIS0163	Yes	00480	SALINITY - PARTS PER THOUSAND	09/19/75-09/19/75	0	1	
PAIS0164	Yes	00480	SALINITY - PARTS PER THOUSAND	09/19/75-09/19/75	0	1	
PAIS0166	No	00480	SALINITY - PARTS PER THOUSAND	12/11/75-01/14/76	0	2	
PAIS0167	No	00480	SALINITY - PARTS PER THOUSAND	08/01/57-11/01/58	1	5	
PAIS0169	Yes	00480	SALINITY - PARTS PER THOUSAND	09/19/75-09/19/75	0	1	
PAIS0170	No	00480	SALINITY - PARTS PER THOUSAND	09/19/75-09/19/75	0	1	
PAIS0171	Yes	00480	SALINITY - PARTS PER THOUSAND	09/19/75-09/19/75	0	1	
PAIS0172	Yes	00480	SALINITY - PARTS PER THOUSAND	09/15/89-08/15/90	0	12	
PAIS0174	Yes	00480	SALINITY - PARTS PER THOUSAND	09/19/75-09/19/75	0	1	
PAIS0175	No	00480	SALINITY - PARTS PER THOUSAND	11/18/93-09/27/94	0	28	
PAIS0176	No	00480	SALINITY - PARTS PER THOUSAND	09/19/75-09/19/75	0	1	
PAIS0177	No	00480	SALINITY - PARTS PER THOUSAND	09/19/75-09/19/75	0	1	
PAIS0178	Yes	00480	SALINITY - PARTS PER THOUSAND	09/02/75-09/02/75	0	1	
PAIS0180	No	00480	SALINITY - PARTS PER THOUSAND	09/02/75-09/02/75	0	1	
PAIS0182	No	00480	SALINITY - PARTS PER THOUSAND	11/14/85-07/29/96	10	78	T
PAIS0183	Yes	00480	SALINITY - PARTS PER THOUSAND	09/02/75-09/02/75	0	1	
PAIS0184	Yes	00480	SALINITY - PARTS PER THOUSAND	09/02/75-09/02/75	0	1	
PAIS0185	No	00480	SALINITY - PARTS PER THOUSAND	09/02/75-09/02/75	0	1	
PAIS0186	Yes	00480	SALINITY - PARTS PER THOUSAND	09/02/75-09/02/75	0	1	
PAIS0187	No	00480	SALINITY - PARTS PER THOUSAND	06/13/75-01/14/76	0	4	
PAIS0188	No	00480	SALINITY - PARTS PER THOUSAND	09/02/75-09/02/75	0	1	
PAIS0191	Yes	00480	SALINITY - PARTS PER THOUSAND	06/16/92-09/23/98	6	44119	A
PAIS0192	Yes	00480	SALINITY - PARTS PER THOUSAND	09/02/75-09/02/75	0	1	
PAIS0193	Yes	00480	SALINITY - PARTS PER THOUSAND	09/02/75-09/02/75	0	1	
PAIS0194	Yes	00480	SALINITY - PARTS PER THOUSAND	09/02/75-09/02/75	0	1	
PAIS0195	Yes	00480	SALINITY - PARTS PER THOUSAND	09/02/75-09/02/75	0	1	
PAIS0196	No	00480	SALINITY - PARTS PER THOUSAND	09/02/75-09/02/75	0	1	
PAIS0197	Yes	00480	SALINITY - PARTS PER THOUSAND	05/01/41-12/01/55	14	51	
PAIS0198	Yes	00480	SALINITY - PARTS PER THOUSAND	01/15/71-12/15/71	0	11	
PAIS0199	Yes	00480	SALINITY - PARTS PER THOUSAND	10/01/51-12/01/53	2	19	
PAIS0200	Yes	00480	SALINITY - PARTS PER THOUSAND	09/02/75-09/02/75	0	1	
PAIS0201	Yes	00480	SALINITY - PARTS PER THOUSAND	09/02/75-09/02/75	0	1	
PAIS0203	Yes	00480	SALINITY - PARTS PER THOUSAND	09/02/75-09/02/75	0	1	
PAIS0205	No	00480	SALINITY - PARTS PER THOUSAND	09/02/75-01/14/76	0	3	
PAIS0206	No	00480	SALINITY - PARTS PER THOUSAND	01/15/71-12/15/71	0	12	

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

Station/Parameter Period of Record Tabulation
From 05/01/41 To 09/23/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
PAIS0207	No	00480	SALINITY - PARTS PER THOUSAND	10/01/51-12/01/53	2	21	
PAIS0208	No	00480	SALINITY - PARTS PER THOUSAND	07/17/75-07/17/75	0	1	
PAIS0211	No	00480	SALINITY - PARTS PER THOUSAND	06/13/75-01/14/76	0	5	
PAIS0214	Yes	00480	SALINITY - PARTS PER THOUSAND	01/15/71-12/15/71	0	12	
PAIS0215	Yes	00480	SALINITY - PARTS PER THOUSAND	11/01/51-12/01/53	2	20	
PAIS0216	Yes	00480	SALINITY - PARTS PER THOUSAND	07/24/75-07/24/75	0	1	
PAIS0217	No	00480	SALINITY - PARTS PER THOUSAND	07/24/75-07/24/75	0	1	
PAIS0218	Yes	00480	SALINITY - PARTS PER THOUSAND	07/17/75-07/17/75	0	1	
PAIS0220	Yes	00480	SALINITY - PARTS PER THOUSAND	07/17/75-07/17/75	0	1	
PAIS0221	Yes	00480	SALINITY - PARTS PER THOUSAND	07/24/75-07/24/75	0	1	
PAIS0222	Yes	00480	SALINITY - PARTS PER THOUSAND	07/17/75-07/17/75	0	1	
PAIS0223	No	00480	SALINITY - PARTS PER THOUSAND	07/17/75-11/05/75	0	4	
PAIS0224	Yes	00480	SALINITY - PARTS PER THOUSAND	07/17/75-07/17/75	0	1	
PAIS0225	Yes	00480	SALINITY - PARTS PER THOUSAND	07/17/75-07/17/75	0	1	
PAIS0226	No	00480	SALINITY - PARTS PER THOUSAND	07/17/75-07/24/75	0	2	
PAIS0227	No	00480	SALINITY - PARTS PER THOUSAND	07/17/75-07/17/75	0	1	
PAIS0228	No	00480	SALINITY - PARTS PER THOUSAND	07/24/75-07/24/75	0	1	
PAIS0229	No	00480	SALINITY - PARTS PER THOUSAND	07/17/75-07/17/75	0	1	
PAIS0230	No	00480	SALINITY - PARTS PER THOUSAND	07/17/75-07/24/75	0	2	
PAIS0231	No	00480	SALINITY - PARTS PER THOUSAND	07/24/75-07/24/75	0	1	
PAIS0232	No	00480	SALINITY - PARTS PER THOUSAND	07/24/75-07/24/75	0	1	
PAIS0233	No	00480	SALINITY - PARTS PER THOUSAND	07/17/75-07/24/75	0	2	
PAIS0234	No	00480	SALINITY - PARTS PER THOUSAND	07/24/75-07/24/75	0	1	
PAIS0235	No	00480	SALINITY - PARTS PER THOUSAND	07/24/75-07/24/75	0	1	
PAIS0236	No	00480	SALINITY - PARTS PER THOUSAND	07/24/75-07/24/75	0	1	
PAIS0238	No	00480	SALINITY - PARTS PER THOUSAND	07/17/75-01/14/76	0	4	
PAIS0239	No	00480	SALINITY - PARTS PER THOUSAND	07/24/75-07/24/75	0	1	
PAIS0240	No	00480	SALINITY - PARTS PER THOUSAND	05/01/41-12/01/55	14	53	
PAIS0241	No	00480	SALINITY - PARTS PER THOUSAND	01/15/71-12/15/71	0	12	
PAIS0242	No	00480	SALINITY - PARTS PER THOUSAND	10/01/51-12/01/53	2	19	
PAIS0243	No	00480	SALINITY - PARTS PER THOUSAND	06/13/75-06/13/75	0	1	
PAIS0244	No	00480	SALINITY - PARTS PER THOUSAND	12/11/75-01/14/76	0	2	
PAIS0246	No	00480	SALINITY - PARTS PER THOUSAND	08/01/57-11/01/58	1	5	
PAIS0248	No	00480	SALINITY - PARTS PER THOUSAND	08/01/57-11/01/58	1	5	
PAIS0249	No	00480	SALINITY - PARTS PER THOUSAND	12/11/75-01/14/76	0	2	
PAIS0252	No	00480	SALINITY - PARTS PER THOUSAND	01/15/73-08/15/74	1	5	
PAIS0253	No	00480	SALINITY - PARTS PER THOUSAND	01/15/73-08/15/74	1	7	
PAIS0255	No	00480	SALINITY - PARTS PER THOUSAND	11/14/85-07/16/96	10	61	T,A
PAIS0256	No	00480	SALINITY - PARTS PER THOUSAND	01/15/73-08/15/74	1	7	
PAIS0257	No	00480	SALINITY - PARTS PER THOUSAND	01/15/73-08/15/74	1	2	
PAIS0019	No	00496	LOSS ON IGNITION, BOTTOM DEPOSITS (MG/KG)	10/13/83-10/13/83	0	1	
PAIS0182	No	00496	LOSS ON IGNITION, BOTTOM DEPOSITS (MG/KG)	04/26/76-08/08/89	13	12	
PAIS0019	No	00510	RESIDUE, TOTAL FIXED (MG/L)	10/07/70-10/07/70	0	1	
PAIS0018	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/09/69-08/30/94	24	58	T,S
PAIS0019	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/09/69-05/15/96	26	81	T,S
PAIS0044	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/23/72-04/21/94	22	68	T,S
PAIS0100	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/27/72-07/25/96	24	92	T,S
PAIS0151	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/21/98-07/21/98	0	1	
PAIS0165	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/08/98-04/08/98	0	1	
PAIS0182	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/23/73-07/29/96	22	90	T,S
PAIS0255	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/06/75-07/16/96	21	84	T,S
PAIS0018	No	00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	01/13/70-08/30/94	24	55	T,S
PAIS0019	No	00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	09/09/69-05/15/96	26	80	T,S
PAIS0044	No	00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	02/23/72-04/21/94	22	67	T,S
PAIS0100	No	00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	02/27/72-07/25/96	24	92	T,S
PAIS0151	Yes	00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	07/21/98-07/21/98	0	1	
PAIS0165	Yes	00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	04/08/98-04/08/98	0	1	
PAIS0182	No	00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	10/23/73-07/29/96	22	90	T,S
PAIS0255	No	00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	01/06/75-07/16/96	21	84	T,S
PAIS0181	No	00544	RESIDUE, VOLATILE SETTLEABLE (MG/L)	04/26/76-04/26/76	0	1	
PAIS0019	No	00557	OIL & GREASE,SED,DRY WT,FREON EXTR-GRAV METH,MG/KG	10/13/83-10/13/83	0	1	
PAIS0182	No	00557	OIL & GREASE,SED,DRY WT,FREON EXTR-GRAV METH,MG/KG	07/06/77-04/26/88	10	11	
PAIS0182	No	00561	OIL & GREASE, SED, DRY WT,FREON EXTR-IR METH,MG/KG	10/23/73-08/08/89	15	4	
PAIS0012	No	00600	NITROGEN, TOTAL (MG/L AS N)	04/23/74-02/10/76	1	5	
PAIS0020	No	00600	NITROGEN, TOTAL (MG/L AS N)	04/11/79-07/16/80	1	4	
PAIS0022	No	00600	NITROGEN, TOTAL (MG/L AS N)	04/23/74-04/11/79	4	13	
PAIS0023	No	00600	NITROGEN, TOTAL (MG/L AS N)	02/01/77-03/29/82	5	9	
PAIS0034	No	00600	NITROGEN, TOTAL (MG/L AS N)	06/27/78-06/27/78	0	2	
PAIS0049	No	00600	NITROGEN, TOTAL (MG/L AS N)	04/24/74-06/27/78	4	4	
PAIS0050	No	00600	NITROGEN, TOTAL (MG/L AS N)	10/30/75-02/11/76	0	4	
PAIS0055	No	00600	NITROGEN, TOTAL (MG/L AS N)	02/01/77-03/24/81	4	8	
PAIS0077	No	00600	NITROGEN, TOTAL (MG/L AS N)	06/27/78-06/27/78	0	2	

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

Station/Parameter Period of Record Tabulation
From 05/01/41 To 09/23/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
PAIS0081	No	00600	NITROGEN, TOTAL (MG/L AS N)	04/24/74-03/24/81	6	21	
PAIS0082	No	00600	NITROGEN, TOTAL (MG/L AS N)	04/24/74-10/23/74	0	2	
PAIS0096	No	00600	NITROGEN, TOTAL (MG/L AS N)	06/27/78-06/27/78	0	2	
PAIS0119	Yes	00600	NITROGEN, TOTAL (MG/L AS N)	10/23/74-03/30/82	7	11	
PAIS0121	No	00600	NITROGEN, TOTAL (MG/L AS N)	04/24/74-06/22/77	3	5	
PAIS0219	No	00600	NITROGEN, TOTAL (MG/L AS N)	06/27/78-04/12/79	0	5	
PAIS0012	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	04/23/74-02/10/76	1	5	
PAIS0020	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	04/11/79-03/29/82	2	6	
PAIS0022	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	04/23/74-04/11/79	4	13	
PAIS0023	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	02/01/77-03/29/82	5	9	
PAIS0034	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	06/27/78-06/27/78	0	2	
PAIS0049	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	04/24/74-06/27/78	4	4	
PAIS0050	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	10/30/75-02/11/76	0	4	
PAIS0055	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	02/01/77-03/30/82	5	9	
PAIS0077	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	06/27/78-06/27/78	0	2	
PAIS0081	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	04/24/74-03/30/82	7	23	
PAIS0082	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	04/24/74-10/23/74	0	2	
PAIS0096	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	06/27/78-06/27/78	0	2	
PAIS0119	Yes	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	10/23/74-03/30/82	7	12	
PAIS0121	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	04/24/74-06/22/77	3	5	
PAIS0219	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	06/27/78-04/12/79	0	5	
PAIS0153	Yes	00607	NITROGEN, ORGANIC, DISSOLVED (MG/L AS N)	05/20/78-05/20/78	0	1	
PAIS0154	Yes	00607	NITROGEN, ORGANIC, DISSOLVED (MG/L AS N)	05/20/78-05/20/78	0	1	
PAIS0157	Yes	00607	NITROGEN, ORGANIC, DISSOLVED (MG/L AS N)	05/20/78-05/20/78	0	1	
PAIS0158	Yes	00607	NITROGEN, ORGANIC, DISSOLVED (MG/L AS N)	05/20/78-05/20/78	0	1	
PAIS0159	Yes	00607	NITROGEN, ORGANIC, DISSOLVED (MG/L AS N)	05/20/78-05/20/78	0	1	
PAIS0161	Yes	00607	NITROGEN, ORGANIC, DISSOLVED (MG/L AS N)	05/20/78-05/20/78	0	1	
PAIS0153	Yes	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/20/78-05/20/78	0	1	
PAIS0154	Yes	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/20/78-05/20/78	0	1	
PAIS0155	Yes	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/20/78-05/20/78	0	1	
PAIS0157	Yes	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/20/78-05/20/78	0	1	
PAIS0158	Yes	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/20/78-05/20/78	0	1	
PAIS0159	Yes	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/20/78-05/20/78	0	1	
PAIS0161	Yes	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/20/78-05/20/78	0	1	
PAIS0007	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/07/70-10/07/70	0	2	
PAIS0009	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/07/70-10/07/70	0	2	
PAIS0010	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/11/69-10/07/70	1	4	
PAIS0012	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/20/68-08/25/76	8	16	
PAIS0013	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/07/70-10/07/70	0	2	
PAIS0016	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/11/69-10/07/70	1	4	
PAIS0018	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/09/69-08/30/94	24	58	T,S
PAIS0019	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/09/69-05/15/96	26	82	T,S
PAIS0020	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/11/79-03/29/82	2	8	
PAIS0022	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/23/73-04/11/79	5	22	
PAIS0023	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/22/68-03/29/82	13	16	
PAIS0030	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/11/69-10/07/70	1	3	
PAIS0031	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/07/70-10/07/70	0	2	
PAIS0032	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/11/69-10/07/70	1	3	
PAIS0033	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/07/70-10/07/70	0	2	
PAIS0034	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/11/69-06/27/78	8	6	
PAIS0044	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/23/72-04/21/94	22	68	T,S
PAIS0049	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/23/68-06/27/78	9	16	
PAIS0050	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/11/69-08/26/76	6	10	
PAIS0051	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/07/70-10/07/70	0	2	
PAIS0055	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/01/77-03/30/82	5	10	
PAIS0062	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/26/68-08/26/68	0	1	
PAIS0063	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/26/68-08/26/68	0	2	
PAIS0077	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/27/78-06/27/78	0	2	
PAIS0080	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/16/69-09/16/69	0	1	
PAIS0081	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/16/69-03/30/82	12	36	
PAIS0082	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/16/69-02/05/75	5	12	
PAIS0096	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/27/68-06/27/78	9	6	
PAIS0100	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/27/72-07/25/96	24	91	T,S
PAIS0119	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/16/69-03/30/82	12	15	
PAIS0121	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/27/68-06/22/77	8	18	
PAIS0151	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/21/98-07/21/98	0	1	
PAIS0165	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/08/98-04/08/98	0	1	
PAIS0181	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	01/06/76-01/06/76	0	1	
PAIS0182	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/23/73-07/29/96	22	89	T,S
PAIS0209	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/08/70-10/08/70	0	2	
PAIS0210	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/28/68-10/08/70	2	6	
PAIS0219	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/16/69-04/12/79	9	6	

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

Station/Parameter Period of Record Tabulation
From 05/01/41 To 09/23/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
PAIS0255	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	01/06/75-07/16/96	21	82	T,S
PAIS0015	No	00612	AMMONIA, UNIONZED (MG/L AS N)	11/26/71-09/17/74	2	12	
PAIS0053	No	00612	AMMONIA, UNIONZED (MG/L AS N)	02/23/72-09/17/74	2	10	
PAIS0101	No	00612	AMMONIA, UNIONZED (MG/L AS N)	02/27/72-07/17/74	2	11	
PAIS0149	Yes	00612	AMMONIA, UNIONZED (MG/L AS N)	10/23/73-07/17/74	0	4	
PAIS0153	Yes	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	05/20/78-05/20/78	0	1	
PAIS0154	Yes	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	05/20/78-05/20/78	0	1	
PAIS0155	Yes	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	05/20/78-05/20/78	0	1	
PAIS0157	Yes	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	05/20/78-05/20/78	0	1	
PAIS0158	Yes	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	05/20/78-05/20/78	0	1	
PAIS0159	Yes	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	05/20/78-05/20/78	0	1	
PAIS0161	Yes	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	05/20/78-05/20/78	0	1	
PAIS0007	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/07/70-10/07/70	0	2	
PAIS0009	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/07/70-10/07/70	0	2	
PAIS0010	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	09/11/69-10/07/70	1	4	
PAIS0012	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/20/68-08/25/76	8	16	
PAIS0013	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/07/70-10/07/70	0	2	
PAIS0016	Yes	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	09/11/69-10/07/70	1	4	
PAIS0018	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/24/82-08/30/94	12	12	
PAIS0019	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/07/70-05/24/94	23	17	
PAIS0020	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/11/79-03/29/82	2	8	
PAIS0022	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/23/73-04/11/79	5	22	
PAIS0023	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/22/68-03/29/82	13	16	
PAIS0030	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	09/11/69-10/07/70	1	3	
PAIS0031	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/07/70-10/07/70	0	2	
PAIS0032	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	09/11/69-10/07/70	1	3	
PAIS0033	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/07/70-10/07/70	0	2	
PAIS0034	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	09/11/69-06/27/78	8	6	
PAIS0044	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	11/10/81-04/21/94	12	17	
PAIS0049	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/23/68-06/27/78	9	16	
PAIS0050	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	09/11/69-08/26/76	6	10	
PAIS0051	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/07/70-10/07/70	0	2	
PAIS0055	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	02/01/77-03/30/82	5	10	
PAIS0062	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/26/68-08/26/68	0	1	
PAIS0063	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/26/68-08/26/68	0	2	
PAIS0077	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	06/27/78-06/27/78	0	2	
PAIS0080	Yes	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	09/16/69-09/16/69	0	1	
PAIS0081	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	09/16/69-03/30/82	12	36	
PAIS0082	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	09/16/69-02/05/75	5	12	
PAIS0096	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/27/68-06/27/78	9	6	
PAIS0100	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/07/76-06/08/94	17	39	
PAIS0119	Yes	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	09/16/69-03/30/82	12	15	
PAIS0121	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/27/68-06/22/77	8	18	
PAIS0182	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/07/76-09/26/94	17	46	
PAIS0209	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/08/70-10/08/70	0	2	
PAIS0210	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/28/68-10/08/70	2	6	
PAIS0219	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	09/16/69-04/12/79	9	6	
PAIS0255	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/07/76-06/08/94	17	46	
PAIS0153	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	05/20/78-05/20/78	0	1	
PAIS0154	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	05/20/78-05/20/78	0	1	
PAIS0155	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	05/20/78-05/20/78	0	1	
PAIS0157	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	05/20/78-05/20/78	0	1	
PAIS0158	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	05/20/78-05/20/78	0	1	
PAIS0159	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	05/20/78-05/20/78	0	1	
PAIS0161	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	05/20/78-05/20/78	0	1	
PAIS0007	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/11/69-10/07/70	1	4	
PAIS0009	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/11/69-10/07/70	1	3	
PAIS0010	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/11/69-10/07/70	1	4	
PAIS0012	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/20/68-08/25/76	8	16	
PAIS0013	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/11/69-10/07/70	1	4	
PAIS0015	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	11/26/71-09/17/74	2	12	
PAIS0016	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/11/69-10/07/70	1	4	
PAIS0018	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/09/69-08/30/94	24	58	T,S
PAIS0019	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/09/69-05/24/94	24	75	T,S
PAIS0020	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/11/79-07/16/80	1	4	
PAIS0022	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/23/73-04/11/79	5	22	
PAIS0023	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/22/68-03/24/81	12	14	
PAIS0030	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/11/69-10/07/70	1	3	
PAIS0031	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/11/69-10/07/70	1	3	
PAIS0032	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/11/69-10/07/70	1	3	
PAIS0033	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/11/69-10/07/70	1	4	
PAIS0034	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/11/69-06/27/78	8	6	

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

Station/Parameter Period of Record Tabulation
From 05/01/41 To 09/23/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
PAIS0044	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/23/72-04/21/94	22	67	T,S
PAIS0049	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/23/68-06/27/78	9	16	
PAIS0050	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/11/69-08/26/76	6	10	
PAIS0051	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/11/69-10/07/70	1	4	
PAIS0053	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/23/72-09/17/74	2	10	
PAIS0055	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/01/77-03/24/81	4	8	
PAIS0062	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/26/68-08/26/68	0	1	
PAIS0063	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/26/68-08/26/68	0	2	
PAIS0077	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	06/27/78-06/27/78	0	2	
PAIS0080	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/16/69-09/16/69	0	2	
PAIS0081	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/16/69-03/24/81	11	32	
PAIS0082	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/16/69-02/05/75	5	12	
PAIS0083	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/16/69-09/16/69	0	2	
PAIS0085	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/16/69-09/16/69	0	2	
PAIS0096	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/27/68-06/27/78	9	6	
PAIS0098	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/15/69-09/15/69	0	2	
PAIS0100	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/27/72-04/21/94	22	76	T,S
PAIS0101	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/27/72-07/17/74	2	11	
PAIS0117	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/16/69-09/16/69	0	1	
PAIS0118	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/16/69-09/16/69	0	2	
PAIS0119	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/16/69-03/30/82	12	14	
PAIS0121	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/27/68-06/22/77	8	18	
PAIS0136	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/15/89-02/15/90	0	2	
PAIS0149	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	10/23/73-07/17/74	0	4	
PAIS0152	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/15/89-02/15/90	0	2	
PAIS0172	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/15/89-02/15/90	0	2	
PAIS0182	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	10/23/73-09/26/94	20	79	T,S
PAIS0209	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/16/69-10/08/70	1	4	
PAIS0210	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/28/68-10/08/70	2	6	
PAIS0213	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/16/69-09/16/69	0	1	
PAIS0219	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/16/69-04/12/79	9	6	
PAIS0255	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/07/75-04/21/94	18	70	T
PAIS0153	Yes	00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	05/20/78-05/20/78	0	1	
PAIS0154	Yes	00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	05/20/78-05/20/78	0	1	
PAIS0157	Yes	00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	05/20/78-05/20/78	0	1	
PAIS0158	Yes	00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	05/20/78-05/20/78	0	1	
PAIS0159	Yes	00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	05/20/78-05/20/78	0	1	
PAIS0161	Yes	00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	05/20/78-05/20/78	0	1	
PAIS0012	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/23/74-02/10/76	1	5	
PAIS0018	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/27/93-08/30/94	1	2	
PAIS0019	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/27/93-05/15/96	2	10	
PAIS0020	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/11/79-03/29/82	2	8	
PAIS0022	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/23/74-04/11/79	4	13	
PAIS0023	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	02/01/77-03/29/82	5	10	
PAIS0034	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/27/78-06/27/78	0	2	
PAIS0044	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/27/93-04/21/94	0	4	
PAIS0049	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/24/74-06/27/78	4	4	
PAIS0050	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/30/75-02/11/76	0	4	
PAIS0055	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	02/01/77-03/30/82	5	10	
PAIS0077	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/27/78-06/27/78	0	2	
PAIS0081	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/24/74-03/30/82	7	25	
PAIS0082	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/24/74-10/23/74	0	2	
PAIS0096	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/27/78-06/27/78	0	2	
PAIS0100	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	01/14/93-07/25/96	3	15	
PAIS0119	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/23/74-03/30/82	7	12	
PAIS0121	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/24/74-06/22/77	3	5	
PAIS0136	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	02/15/90-02/15/90	0	1	
PAIS0151	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/21/98-07/21/98	0	1	
PAIS0152	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	02/15/90-02/15/90	0	1	
PAIS0165	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/08/98-04/08/98	0	1	
PAIS0172	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	02/15/90-02/15/90	0	1	
PAIS0182	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	01/14/93-07/29/96	3	15	
PAIS0219	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/27/78-04/12/79	0	5	
PAIS0255	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	01/14/93-07/16/96	3	15	
PAIS0182	No	00626	NITROGEN,ORG. KJEL.,BOT. DEPOS. (MG/KG-N DRY WGT)	10/23/73-08/08/89	15	10	
PAIS0012	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/23/74-02/10/76	1	5	
PAIS0019	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	11/28/94-05/15/96	1	6	
PAIS0020	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/11/79-03/29/82	2	8	
PAIS0022	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/23/74-04/11/79	4	13	
PAIS0023	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	02/01/77-03/29/82	5	10	
PAIS0034	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/27/78-06/27/78	0	2	
PAIS0049	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/24/74-06/27/78	4	4	

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

Station/Parameter Period of Record Tabulation
From 05/01/41 To 09/23/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
PAIS0050	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/30/75-02/11/76	0	4	
PAIS0055	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	02/01/77-03/30/82	5	10	
PAIS0077	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/27/78-06/27/78	0	2	
PAIS0081	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/24/74-03/30/82	7	25	
PAIS0082	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/24/74-10/23/74	0	2	
PAIS0096	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/27/78-06/27/78	0	2	
PAIS0100	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/26/76-07/25/96	20	11	
PAIS0119	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/23/74-03/30/82	7	12	
PAIS0121	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/24/74-06/22/77	3	5	
PAIS0151	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/21/98-07/21/98	0	1	
PAIS0165	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/08/98-04/08/98	0	1	
PAIS0182	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	11/14/85-07/29/96	10	8	
PAIS0219	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/27/78-04/12/79	0	5	
PAIS0252	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/15/73-08/15/74	1	5	
PAIS0253	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/15/73-08/15/74	1	8	
PAIS0255	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/26/76-07/16/96	20	10	
PAIS0256	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/15/73-08/15/74	1	8	
PAIS0257	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/15/73-08/15/74	1	3	
PAIS0007	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	08/20/68-08/20/68	0	2	
PAIS0011	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	08/20/68-08/20/68	0	2	
PAIS0015	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	11/26/71-09/17/74	2	12	
PAIS0018	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	09/09/69-02/19/85	15	47	
PAIS0019	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	09/09/69-10/09/85	16	53	T
PAIS0020	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	04/11/79-04/11/79	0	2	
PAIS0022	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	04/10/79-04/11/79	0	4	
PAIS0023	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	04/11/79-04/11/79	0	1	
PAIS0025	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	08/22/68-08/22/68	0	2	
PAIS0044	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	02/23/72-10/09/85	13	44	
PAIS0048	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	08/23/68-08/23/68	0	2	
PAIS0053	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	02/23/72-09/17/74	2	10	
PAIS0055	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	04/11/79-04/11/79	0	1	
PAIS0061	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	08/26/68-08/26/68	0	1	
PAIS0064	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	08/26/68-08/26/68	0	2	
PAIS0081	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	04/11/79-04/11/79	0	2	
PAIS0098	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	08/27/68-08/27/68	0	2	
PAIS0100	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	02/27/72-11/14/85	13	47	
PAIS0101	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	02/27/72-07/17/74	2	11	
PAIS0118	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	08/27/68-08/27/68	0	2	
PAIS0119	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	04/11/79-04/11/79	0	1	
PAIS0136	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	09/15/89-02/15/90	0	2	
PAIS0149	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	10/23/73-07/17/74	0	4	
PAIS0152	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	09/15/89-02/15/90	0	2	
PAIS0172	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	09/15/89-02/15/90	0	2	
PAIS0182	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	10/23/73-11/14/85	12	45	
PAIS0209	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	08/28/68-08/28/68	0	2	
PAIS0219	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	04/11/79-04/12/79	0	4	
PAIS0255	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	01/06/75-11/14/85	10	40	
PAIS0007	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	08/20/68-08/20/68	0	2	
PAIS0010	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/11/69-10/07/70	1	4	
PAIS0011	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	08/20/68-08/20/68	0	2	
PAIS0012	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	08/20/68-10/30/73	5	8	
PAIS0016	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/11/69-10/07/70	1	4	
PAIS0018	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/11/73-02/19/85	11	33	
PAIS0019	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/11/73-10/09/85	12	39	
PAIS0022	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	05/23/73-05/23/73	0	2	
PAIS0023	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	08/22/68-05/23/73	4	6	
PAIS0025	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	08/22/68-08/22/68	0	2	
PAIS0030	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/11/69-10/07/70	1	3	
PAIS0032	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/11/69-10/07/70	1	3	
PAIS0034	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/11/69-10/07/70	1	4	
PAIS0044	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/11/73-10/09/85	12	39	
PAIS0048	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	08/23/68-08/23/68	0	2	
PAIS0049	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	08/23/68-05/23/73	4	6	
PAIS0050	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/11/69-10/07/70	1	4	
PAIS0061	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	08/26/68-08/26/68	0	1	
PAIS0062	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	08/26/68-08/26/68	0	1	
PAIS0063	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	08/26/68-08/26/68	0	2	
PAIS0064	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	08/26/68-08/26/68	0	2	
PAIS0080	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/16/69-09/16/69	0	2	
PAIS0081	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/16/69-10/17/73	4	6	
PAIS0082	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/16/69-10/17/73	4	6	
PAIS0096	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	08/27/68-09/15/69	1	4	

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

Station/Parameter Period of Record Tabulation
From 05/01/41 To 09/23/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
PAIS0098	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	08/27/68-08/27/68	0	2	
PAIS0100	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	10/23/73-11/14/85	12	40	
PAIS0118	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	08/27/68-08/27/68	0	2	
PAIS0119	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/16/69-09/16/69	0	1	
PAIS0121	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	08/27/68-10/17/73	5	10	
PAIS0182	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	10/23/73-11/14/85	12	44	
PAIS0209	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	08/28/68-08/28/68	0	2	
PAIS0210	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	08/28/68-10/08/70	2	6	
PAIS0219	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/16/69-09/16/69	0	1	
PAIS0252	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	01/15/73-08/15/74	1	6	
PAIS0253	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	01/15/73-08/15/74	1	8	
PAIS0255	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	01/06/75-11/14/85	10	39	
PAIS0256	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	01/15/73-08/15/74	1	8	
PAIS0257	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	01/15/73-08/15/74	1	3	
PAIS0007	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/11/69-10/07/70	1	4	
PAIS0009	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/11/69-10/07/70	1	4	
PAIS0010	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/11/69-10/07/70	1	4	
PAIS0012	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/20/68-08/25/76	8	16	
PAIS0013	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/11/69-10/07/70	1	4	
PAIS0016	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/11/69-10/07/70	1	4	
PAIS0018	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/09/69-08/30/94	24	58	T,S
PAIS0019	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/09/69-05/15/96	26	82	T,S
PAIS0020	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/11/79-03/29/82	2	8	
PAIS0022	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/23/73-04/11/79	5	22	
PAIS0023	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/22/68-03/29/82	13	16	
PAIS0030	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/11/69-10/07/70	1	3	
PAIS0031	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/11/69-10/07/70	1	3	
PAIS0032	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/11/69-10/07/70	1	3	
PAIS0033	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/11/69-10/07/70	1	4	
PAIS0034	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/11/69-06/27/78	8	6	
PAIS0044	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	02/23/72-04/21/94	22	67	T,S
PAIS0049	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/23/68-06/27/78	9	16	
PAIS0050	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/11/69-08/26/76	6	10	
PAIS0051	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/11/69-10/07/70	1	4	
PAIS0055	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	02/01/77-03/30/82	5	10	
PAIS0062	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/26/68-08/26/68	0	1	
PAIS0063	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/26/68-08/26/68	0	2	
PAIS0077	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/27/78-06/27/78	0	2	
PAIS0080	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/16/69-09/16/69	0	2	
PAIS0081	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/16/69-03/30/82	12	36	
PAIS0082	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/16/69-02/05/75	5	12	
PAIS0083	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/16/69-09/16/69	0	2	
PAIS0085	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/16/69-09/16/69	0	2	
PAIS0096	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/27/68-06/27/78	9	6	
PAIS0098	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/15/69-09/15/69	0	2	
PAIS0100	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	02/27/72-07/25/96	24	90	T,S
PAIS0117	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/16/69-09/16/69	0	1	
PAIS0118	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/16/69-09/16/69	0	2	
PAIS0119	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/16/69-03/30/82	12	15	
PAIS0121	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/27/68-06/22/77	8	18	
PAIS0151	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/21/98-07/21/98	0	1	
PAIS0165	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/08/98-04/08/98	0	1	
PAIS0182	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/23/73-07/29/96	22	88	T,S
PAIS0209	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/16/69-10/08/70	1	4	
PAIS0210	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/28/68-10/08/70	2	6	
PAIS0213	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/16/69-09/16/69	0	1	
PAIS0219	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/16/69-04/12/79	9	6	
PAIS0255	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	01/06/75-07/16/96	21	83	T,S
PAIS0019	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	10/13/83-10/13/83	0	1	
PAIS0182	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	10/23/73-08/08/89	15	15	
PAIS0007	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/11/69-10/07/70	1	4	
PAIS0009	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/11/69-10/07/70	1	4	
PAIS0010	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/11/69-10/07/70	1	4	
PAIS0012	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/20/68-10/30/73	5	8	
PAIS0013	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/11/69-10/07/70	1	4	
PAIS0016	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/11/69-10/07/70	1	4	
PAIS0018	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/11/73-08/30/94	20	44	S
PAIS0019	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/11/73-05/15/96	22	67	T,S
PAIS0022	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/23/73-05/23/73	0	2	
PAIS0023	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/22/68-05/23/73	4	6	
PAIS0030	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/11/69-10/07/70	1	3	
PAIS0031	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/11/69-10/07/70	1	3	

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

Station/Parameter Period of Record Tabulation
From 05/01/41 To 09/23/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
PAIS0032	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/11/69-10/07/70	1	3	
PAIS0033	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/11/69-10/07/70	1	4	
PAIS0034	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/11/69-10/07/70	1	4	
PAIS0044	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/11/73-04/21/94	20	62	T,S
PAIS0049	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/23/68-05/23/73	4	6	
PAIS0050	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/11/69-10/07/70	1	4	
PAIS0051	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/11/69-10/07/70	1	4	
PAIS0062	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/26/68-08/26/68	0	1	
PAIS0063	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/26/68-08/26/68	0	2	
PAIS0080	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/16/69-09/16/69	0	2	
PAIS0081	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/16/69-10/17/73	4	6	
PAIS0082	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/16/69-10/17/73	4	6	
PAIS0083	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/16/69-09/16/69	0	2	
PAIS0085	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/16/69-09/16/69	0	2	
PAIS0096	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/27/68-09/15/69	1	4	
PAIS0098	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/15/69-09/15/69	0	2	
PAIS0100	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/23/73-07/25/96	22	81	T,S
PAIS0117	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/16/69-09/16/69	0	1	
PAIS0118	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/16/69-09/16/69	0	2	
PAIS0119	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/16/69-09/16/69	0	1	
PAIS0121	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/27/68-10/17/73	5	10	
PAIS0151	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	07/21/98-07/21/98	0	1	
PAIS0165	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/08/98-04/08/98	0	1	
PAIS0182	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/23/73-07/29/96	22	86	T,S
PAIS0209	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/16/69-10/08/70	1	4	
PAIS0210	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/28/68-10/08/70	2	6	
PAIS0213	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/16/69-09/16/69	0	1	
PAIS0219	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/16/69-09/16/69	0	1	
PAIS0255	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	01/06/75-07/16/96	21	81	T,S
PAIS0018	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	06/19/74-08/30/94	20	41	S
PAIS0019	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	06/19/74-05/15/96	21	60	T,S
PAIS0020	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	04/11/79-03/29/82	2	7	
PAIS0022	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	05/23/73-04/11/79	5	15	
PAIS0023	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	05/23/73-03/29/82	8	12	
PAIS0034	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	06/27/78-06/27/78	0	2	
PAIS0044	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	06/19/74-04/21/94	19	57	T
PAIS0049	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	04/24/74-06/27/78	4	4	
PAIS0055	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	02/01/77-03/30/82	5	10	
PAIS0077	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	06/27/78-06/27/78	0	2	
PAIS0081	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	09/27/72-03/30/82	9	30	
PAIS0082	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	09/27/72-02/05/75	2	8	
PAIS0096	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	06/27/78-06/27/78	0	2	
PAIS0100	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/17/74-07/25/96	22	74	T,S
PAIS0119	Yes	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	06/22/77-03/30/82	4	11	
PAIS0121	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	02/01/77-02/01/77	0	1	
PAIS0151	Yes	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/21/98-07/21/98	0	1	
PAIS0165	Yes	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	04/08/98-04/08/98	0	1	
PAIS0182	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/17/74-07/29/96	22	79	T,S
PAIS0219	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	06/27/78-04/12/79	0	5	
PAIS0255	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	04/26/76-07/16/96	20	77	T,S
PAIS0012	No	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	02/10/76-02/10/76	0	1	
PAIS0022	No	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	02/11/76-02/11/76	0	1	
PAIS0012	No	00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	02/10/76-02/10/76	0	1	
PAIS0022	No	00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	02/11/76-02/11/76	0	1	
PAIS0022	No	00721	CYANIDE IN BOTTOM DEPOSITS (MG/KG AS CN DRY WGT)	10/30/75-10/30/75	0	1	
PAIS0012	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/20/68-08/25/76	8	4	
PAIS0016	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/11/69-10/07/70	1	2	
PAIS0022	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/27/78-06/27/78	0	1	
PAIS0023	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/01/77-03/29/82	5	10	
PAIS0049	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/23/68-06/04/75	6	10	
PAIS0050	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/11/69-08/26/76	6	6	
PAIS0063	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/26/68-08/26/68	0	1	
PAIS0081	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/16/69-03/30/82	12	21	
PAIS0082	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/16/69-02/05/75	5	7	
PAIS0096	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/15/69-06/27/78	8	2	
PAIS0119	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/22/77-03/30/82	4	9	
PAIS0121	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/27/68-02/01/77	8	3	
PAIS0210	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/28/68-09/16/69	1	3	
PAIS0007	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/20/68-08/20/68	0	1	
PAIS0011	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/20/68-08/20/68	0	1	
PAIS0012	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/20/68-08/25/76	8	4	
PAIS0013	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/11/69-09/11/69	0	1	

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

Station/Parameter Period of Record Tabulation
From 05/01/41 To 09/23/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
PAIS0016	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/11/69-10/07/70	1	2	
PAIS0022	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	06/27/78-06/27/78	0	1	
PAIS0023	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	02/01/77-03/29/82	5	10	
PAIS0048	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/23/68-08/23/68	0	2	
PAIS0049	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/23/68-06/04/75	6	10	
PAIS0050	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/11/69-08/26/76	6	6	
PAIS0051	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/11/69-09/11/69	0	2	
PAIS0063	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/26/68-08/26/68	0	1	
PAIS0064	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/26/68-08/26/68	0	1	
PAIS0081	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/16/69-03/30/82	12	19	
PAIS0082	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/16/69-02/05/75	5	5	
PAIS0085	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/16/69-09/16/69	0	1	
PAIS0096	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/15/69-06/27/78	8	2	
PAIS0098	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/15/69-09/15/69	0	1	
PAIS0118	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/27/68-08/27/68	0	1	
PAIS0119	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	06/22/77-03/30/82	4	9	
PAIS0121	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/27/68-02/01/77	8	3	
PAIS0209	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/28/68-09/16/69	1	3	
PAIS0210	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/28/68-09/16/69	1	3	
PAIS0007	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/20/68-08/20/68	0	1	
PAIS0011	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/20/68-08/20/68	0	1	
PAIS0012	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/20/68-08/25/76	8	4	
PAIS0013	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/11/69-10/07/70	1	2	
PAIS0016	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/11/69-10/07/70	1	2	
PAIS0022	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/27/78-06/27/78	0	1	
PAIS0023	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	02/01/77-03/29/82	5	10	
PAIS0048	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/23/68-08/23/68	0	2	
PAIS0049	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/23/68-06/04/75	6	9	
PAIS0050	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/11/69-08/26/76	6	6	
PAIS0051	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/11/69-10/07/70	1	3	
PAIS0063	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/26/68-08/26/68	0	1	
PAIS0064	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/26/68-08/26/68	0	1	
PAIS0081	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/16/69-03/30/82	12	20	
PAIS0082	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/16/69-02/05/75	5	6	
PAIS0085	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/16/69-09/16/69	0	1	
PAIS0096	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/15/69-06/27/78	8	2	
PAIS0098	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/15/69-09/15/69	0	1	
PAIS0118	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/27/68-08/27/68	0	1	
PAIS0119	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/22/77-03/30/82	4	9	
PAIS0121	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/27/68-02/01/77	8	3	
PAIS0209	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/28/68-09/16/69	1	3	
PAIS0210	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/28/68-09/16/69	1	3	
PAIS0100	No	00916	CALCIUM, TOTAL (MG/L AS CA)	08/03/83-08/08/84	1	2	
PAIS0182	No	00916	CALCIUM, TOTAL (MG/L AS CA)	08/03/83-08/03/83	0	1	
PAIS0252	No	00916	CALCIUM, TOTAL (MG/L AS CA)	01/15/73-08/15/74	1	5	
PAIS0253	No	00916	CALCIUM, TOTAL (MG/L AS CA)	01/15/73-08/15/74	1	8	
PAIS0255	No	00916	CALCIUM, TOTAL (MG/L AS CA)	08/03/83-08/03/83	0	1	
PAIS0256	No	00916	CALCIUM, TOTAL (MG/L AS CA)	01/15/73-08/15/74	1	8	
PAIS0257	No	00916	CALCIUM, TOTAL (MG/L AS CA)	01/15/73-08/15/74	1	3	
PAIS0007	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/20/68-08/20/68	0	1	
PAIS0011	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/20/68-08/20/68	0	1	
PAIS0012	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/20/68-08/25/76	8	4	
PAIS0013	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/11/69-10/07/70	1	2	
PAIS0016	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/11/69-10/07/70	1	2	
PAIS0022	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/27/78-06/27/78	0	1	
PAIS0023	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	02/01/77-03/29/82	5	10	
PAIS0048	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/23/68-08/23/68	0	2	
PAIS0049	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/23/68-06/04/75	6	9	
PAIS0050	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/11/69-08/26/76	6	6	
PAIS0051	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/11/69-10/07/70	1	3	
PAIS0063	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/26/68-08/26/68	0	1	
PAIS0064	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/26/68-08/26/68	0	1	
PAIS0081	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/16/69-03/30/82	12	20	
PAIS0082	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/16/69-02/05/75	5	6	
PAIS0085	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/16/69-09/16/69	0	1	
PAIS0096	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/15/69-06/27/78	8	2	
PAIS0098	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/15/69-09/15/69	0	1	
PAIS0118	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/27/68-08/27/68	0	1	
PAIS0119	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/22/77-03/30/82	4	9	
PAIS0121	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/27/68-02/01/77	8	3	
PAIS0209	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/28/68-09/16/69	1	3	
PAIS0210	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/28/68-09/16/69	1	3	

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

Station/Parameter Period of Record Tabulation
From 05/01/41 To 09/23/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
PAIS0100	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	08/03/83-08/08/84	1	2	
PAIS0182	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	08/03/83-08/03/83	0	1	
PAIS0252	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	01/15/73-08/15/74	1	5	
PAIS0253	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	01/15/73-08/15/74	1	8	
PAIS0255	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	08/03/83-08/03/83	0	1	
PAIS0256	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	01/15/73-08/15/74	1	8	
PAIS0257	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	01/15/73-08/15/74	1	3	
PAIS0100	No	00929	SODIUM, TOTAL (MG/L AS NA)	08/03/83-08/08/84	1	2	
PAIS0182	No	00929	SODIUM, TOTAL (MG/L AS NA)	08/03/83-08/03/83	0	1	
PAIS0255	No	00929	SODIUM, TOTAL (MG/L AS NA)	08/03/83-08/03/83	0	1	
PAIS0012	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/30/75-08/25/76	0	3	
PAIS0022	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	06/27/78-06/27/78	0	1	
PAIS0023	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	02/01/77-03/29/82	5	10	
PAIS0049	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/23/68-06/04/75	6	7	
PAIS0050	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/30/75-08/26/76	0	3	
PAIS0063	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/26/68-08/26/68	0	1	
PAIS0081	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	04/24/74-03/30/82	7	18	
PAIS0082	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	04/24/74-02/05/75	0	4	
PAIS0096	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	06/27/78-06/27/78	0	1	
PAIS0119	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	06/22/77-03/30/82	4	9	
PAIS0121	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/27/68-02/01/77	8	2	
PAIS0153	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/20/78-05/20/78	0	1	
PAIS0154	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/20/78-05/20/78	0	1	
PAIS0155	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/20/78-05/20/78	0	1	
PAIS0158	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/20/78-05/20/78	0	1	
PAIS0159	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/20/78-05/20/78	0	1	
PAIS0161	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/20/78-05/20/78	0	1	
PAIS0012	No	00931	SODIUM ADSORPTION RATIO	10/30/75-08/25/76	0	3	
PAIS0022	No	00931	SODIUM ADSORPTION RATIO	06/27/78-06/27/78	0	1	
PAIS0023	No	00931	SODIUM ADSORPTION RATIO	02/01/77-03/29/82	5	10	
PAIS0049	No	00931	SODIUM ADSORPTION RATIO	08/23/68-06/04/75	6	8	
PAIS0050	No	00931	SODIUM ADSORPTION RATIO	10/30/75-08/26/76	0	3	
PAIS0063	No	00931	SODIUM ADSORPTION RATIO	08/26/68-08/26/68	0	1	
PAIS0081	No	00931	SODIUM ADSORPTION RATIO	04/24/74-03/30/82	7	19	
PAIS0082	No	00931	SODIUM ADSORPTION RATIO	04/24/74-02/05/75	0	5	
PAIS0096	No	00931	SODIUM ADSORPTION RATIO	06/27/78-06/27/78	0	1	
PAIS0119	Yes	00931	SODIUM ADSORPTION RATIO	06/22/77-03/30/82	4	9	
PAIS0121	No	00931	SODIUM ADSORPTION RATIO	08/27/68-02/01/77	8	2	
PAIS0012	No	00932	SODIUM, PERCENT	10/30/75-08/25/76	0	3	
PAIS0022	No	00932	SODIUM, PERCENT	06/27/78-06/27/78	0	1	
PAIS0023	No	00932	SODIUM, PERCENT	02/01/77-03/29/82	5	10	
PAIS0049	No	00932	SODIUM, PERCENT	04/24/74-06/04/75	1	6	
PAIS0050	No	00932	SODIUM, PERCENT	10/30/75-08/26/76	0	3	
PAIS0081	No	00932	SODIUM, PERCENT	04/24/74-03/30/82	7	19	
PAIS0082	No	00932	SODIUM, PERCENT	04/24/74-02/05/75	0	5	
PAIS0096	No	00932	SODIUM, PERCENT	06/27/78-06/27/78	0	1	
PAIS0119	Yes	00932	SODIUM, PERCENT	06/22/77-03/30/82	4	9	
PAIS0121	No	00932	SODIUM, PERCENT	02/01/77-02/01/77	0	1	
PAIS0007	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	08/20/68-08/20/68	0	1	
PAIS0011	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	08/20/68-08/20/68	0	1	
PAIS0012	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	08/20/68-08/20/68	0	1	
PAIS0013	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	09/11/69-10/07/70	1	2	
PAIS0016	Yes	00933	SODIUM,PLUS POTASSIUM (MG/L)	09/11/69-10/07/70	1	2	
PAIS0023	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	04/11/79-10/10/79	0	2	
PAIS0048	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	08/23/68-08/23/68	0	2	
PAIS0049	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	09/27/72-04/24/74	1	3	
PAIS0050	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	09/11/69-10/07/70	1	3	
PAIS0051	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	09/11/69-10/07/70	1	3	
PAIS0064	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	08/26/68-08/26/68	0	1	
PAIS0081	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	09/16/69-10/11/79	10	5	
PAIS0082	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	09/16/69-04/24/74	4	3	
PAIS0085	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	09/16/69-09/16/69	0	1	
PAIS0096	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	09/15/69-09/15/69	0	1	
PAIS0098	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	09/15/69-09/15/69	0	1	
PAIS0118	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	08/27/68-08/27/68	0	1	
PAIS0119	Yes	00933	SODIUM,PLUS POTASSIUM (MG/L)	04/11/79-10/11/79	0	2	
PAIS0121	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	10/17/73-10/17/73	0	1	
PAIS0209	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	08/28/68-09/16/69	1	3	
PAIS0210	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	08/28/68-09/16/69	1	3	
PAIS0012	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/30/75-08/25/76	0	3	
PAIS0022	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	06/27/78-06/27/78	0	1	
PAIS0023	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	02/01/77-03/29/82	5	10	

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

Station/Parameter Period of Record Tabulation
From 05/01/41 To 09/23/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
PAIS0049	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	04/24/74-06/04/75	1	5	
PAIS0050	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/30/75-08/26/76	0	3	
PAIS0081	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	04/24/74-03/30/82	7	18	
PAIS0082	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	04/24/74-02/05/75	0	4	
PAIS0096	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	06/27/78-06/27/78	0	1	
PAIS0119	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	06/22/77-03/30/82	4	9	
PAIS0121	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	02/01/77-02/01/77	0	1	
PAIS0153	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/20/78-05/20/78	0	1	
PAIS0154	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/20/78-05/20/78	0	1	
PAIS0155	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/20/78-05/20/78	0	1	
PAIS0157	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/20/78-05/20/78	0	1	
PAIS0158	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/20/78-05/20/78	0	1	
PAIS0159	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/20/78-05/20/78	0	1	
PAIS0161	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/20/78-05/20/78	0	1	
PAIS0007	No	00940	CHLORIDE,TOTAL IN WATER MG/L	08/20/68-08/20/68	0	1	
PAIS0011	No	00940	CHLORIDE,TOTAL IN WATER MG/L	08/20/68-08/20/68	0	1	
PAIS0012	No	00940	CHLORIDE,TOTAL IN WATER MG/L	08/20/68-08/25/76	8	4	
PAIS0013	No	00940	CHLORIDE,TOTAL IN WATER MG/L	09/11/69-09/11/69	0	1	
PAIS0016	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	09/11/69-10/07/70	1	2	
PAIS0018	No	00940	CHLORIDE,TOTAL IN WATER MG/L	09/09/69-08/30/94	24	58	T,S
PAIS0019	No	00940	CHLORIDE,TOTAL IN WATER MG/L	09/09/69-05/15/96	26	81	T,S
PAIS0022	No	00940	CHLORIDE,TOTAL IN WATER MG/L	06/27/78-06/27/78	0	1	
PAIS0023	No	00940	CHLORIDE,TOTAL IN WATER MG/L	02/01/77-03/29/82	5	10	
PAIS0044	No	00940	CHLORIDE,TOTAL IN WATER MG/L	02/23/72-04/21/94	22	68	T,S
PAIS0048	No	00940	CHLORIDE,TOTAL IN WATER MG/L	08/23/68-08/23/68	0	2	
PAIS0049	No	00940	CHLORIDE,TOTAL IN WATER MG/L	08/23/68-06/04/75	6	9	
PAIS0050	No	00940	CHLORIDE,TOTAL IN WATER MG/L	09/11/69-08/26/76	6	6	
PAIS0051	No	00940	CHLORIDE,TOTAL IN WATER MG/L	09/11/69-09/11/69	0	2	
PAIS0058	No	00940	CHLORIDE,TOTAL IN WATER MG/L	10/01/85-10/01/85	0	3	
PAIS0063	No	00940	CHLORIDE,TOTAL IN WATER MG/L	08/26/68-08/26/68	0	1	
PAIS0064	No	00940	CHLORIDE,TOTAL IN WATER MG/L	08/26/68-08/26/68	0	1	
PAIS0081	No	00940	CHLORIDE,TOTAL IN WATER MG/L	09/16/69-03/30/82	12	20	
PAIS0082	No	00940	CHLORIDE,TOTAL IN WATER MG/L	09/16/69-02/05/75	5	6	
PAIS0085	No	00940	CHLORIDE,TOTAL IN WATER MG/L	09/16/69-09/16/69	0	1	
PAIS0096	No	00940	CHLORIDE,TOTAL IN WATER MG/L	09/15/69-06/27/78	8	2	
PAIS0098	No	00940	CHLORIDE,TOTAL IN WATER MG/L	09/15/69-09/15/69	0	1	
PAIS0100	No	00940	CHLORIDE,TOTAL IN WATER MG/L	02/27/72-07/25/96	24	92	T,S
PAIS0118	No	00940	CHLORIDE,TOTAL IN WATER MG/L	08/27/68-08/27/68	0	1	
PAIS0119	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	06/22/77-03/30/82	4	9	
PAIS0121	No	00940	CHLORIDE,TOTAL IN WATER MG/L	08/27/68-02/01/77	8	3	
PAIS0151	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	07/21/98-07/21/98	0	1	
PAIS0165	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	04/08/98-04/08/98	0	1	
PAIS0182	No	00940	CHLORIDE,TOTAL IN WATER MG/L	10/23/73-07/29/96	22	90	T,S
PAIS0209	No	00940	CHLORIDE,TOTAL IN WATER MG/L	08/28/68-09/16/69	1	3	
PAIS0210	No	00940	CHLORIDE,TOTAL IN WATER MG/L	08/28/68-09/16/69	1	3	
PAIS0252	No	00940	CHLORIDE,TOTAL IN WATER MG/L	01/15/73-08/15/74	1	5	
PAIS0253	No	00940	CHLORIDE,TOTAL IN WATER MG/L	01/15/73-08/15/74	1	7	
PAIS0255	No	00940	CHLORIDE,TOTAL IN WATER MG/L	01/06/75-07/16/96	21	84	T,S
PAIS0256	No	00940	CHLORIDE,TOTAL IN WATER MG/L	01/15/73-08/15/74	1	7	
PAIS0257	No	00940	CHLORIDE,TOTAL IN WATER MG/L	01/15/73-08/15/74	1	2	
PAIS0013	No	00941	CHLORIDE, DISSOLVED IN WATER MG/L	10/07/70-10/07/70	0	1	
PAIS0018	No	00941	CHLORIDE, DISSOLVED IN WATER MG/L	12/04/75-09/08/76	0	3	
PAIS0019	No	00941	CHLORIDE, DISSOLVED IN WATER MG/L	12/04/75-03/17/77	1	4	
PAIS0044	No	00941	CHLORIDE, DISSOLVED IN WATER MG/L	12/04/75-03/17/77	1	4	
PAIS0051	No	00941	CHLORIDE, DISSOLVED IN WATER MG/L	10/07/70-10/07/70	0	1	
PAIS0100	No	00941	CHLORIDE, DISSOLVED IN WATER MG/L	01/19/73-01/06/76	2	10	
PAIS0153	Yes	00941	CHLORIDE, DISSOLVED IN WATER MG/L	05/20/78-05/20/78	0	1	
PAIS0154	Yes	00941	CHLORIDE, DISSOLVED IN WATER MG/L	05/20/78-05/20/78	0	1	
PAIS0155	Yes	00941	CHLORIDE, DISSOLVED IN WATER MG/L	05/20/78-05/20/78	0	1	
PAIS0157	Yes	00941	CHLORIDE, DISSOLVED IN WATER MG/L	05/20/78-05/20/78	0	1	
PAIS0158	Yes	00941	CHLORIDE, DISSOLVED IN WATER MG/L	05/20/78-05/20/78	0	1	
PAIS0159	Yes	00941	CHLORIDE, DISSOLVED IN WATER MG/L	05/20/78-05/20/78	0	1	
PAIS0161	Yes	00941	CHLORIDE, DISSOLVED IN WATER MG/L	05/20/78-05/20/78	0	1	
PAIS0182	No	00941	CHLORIDE, DISSOLVED IN WATER MG/L	04/09/74-01/06/76	1	8	
PAIS0255	No	00941	CHLORIDE, DISSOLVED IN WATER MG/L	01/06/75-10/27/75	0	3	
PAIS0007	No	00945	SULFATE, TOTAL (MG/L AS SO4)	08/20/68-08/20/68	0	1	
PAIS0011	No	00945	SULFATE, TOTAL (MG/L AS SO4)	08/20/68-08/20/68	0	1	
PAIS0012	No	00945	SULFATE, TOTAL (MG/L AS SO4)	08/20/68-08/25/76	8	4	
PAIS0013	No	00945	SULFATE, TOTAL (MG/L AS SO4)	09/11/69-09/11/69	0	1	
PAIS0016	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	09/11/69-10/07/70	1	2	
PAIS0018	No	00945	SULFATE, TOTAL (MG/L AS SO4)	07/23/70-08/30/94	24	55	T,S
PAIS0019	No	00945	SULFATE, TOTAL (MG/L AS SO4)	07/23/70-05/15/96	25	79	T,S

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

Station/Parameter Period of Record Tabulation
From 05/01/41 To 09/23/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
PAIS0022	No	00945	SULFATE, TOTAL (MG/L AS SO4)	06/27/78-06/27/78	0	1	
PAIS0023	No	00945	SULFATE, TOTAL (MG/L AS SO4)	02/01/77-03/29/82	5	10	
PAIS0044	No	00945	SULFATE, TOTAL (MG/L AS SO4)	02/23/72-04/21/94	22	68	T,S
PAIS0048	No	00945	SULFATE, TOTAL (MG/L AS SO4)	08/23/68-08/23/68	0	2	
PAIS0049	No	00945	SULFATE, TOTAL (MG/L AS SO4)	08/23/68-06/04/75	6	9	
PAIS0050	No	00945	SULFATE, TOTAL (MG/L AS SO4)	09/11/69-08/26/76	6	6	
PAIS0051	No	00945	SULFATE, TOTAL (MG/L AS SO4)	09/11/69-09/11/69	0	2	
PAIS0058	No	00945	SULFATE, TOTAL (MG/L AS SO4)	10/01/85-10/01/85	0	3	
PAIS0063	No	00945	SULFATE, TOTAL (MG/L AS SO4)	08/26/68-08/26/68	0	1	
PAIS0064	No	00945	SULFATE, TOTAL (MG/L AS SO4)	08/26/68-08/26/68	0	1	
PAIS0081	No	00945	SULFATE, TOTAL (MG/L AS SO4)	09/16/69-03/30/82	12	20	
PAIS0082	No	00945	SULFATE, TOTAL (MG/L AS SO4)	09/16/69-02/05/75	5	6	
PAIS0085	No	00945	SULFATE, TOTAL (MG/L AS SO4)	09/16/69-09/16/69	0	1	
PAIS0096	No	00945	SULFATE, TOTAL (MG/L AS SO4)	09/15/69-06/27/78	8	2	
PAIS0098	No	00945	SULFATE, TOTAL (MG/L AS SO4)	09/15/69-09/15/69	0	1	
PAIS0100	No	00945	SULFATE, TOTAL (MG/L AS SO4)	02/27/72-07/25/96	24	91	T,S
PAIS0118	No	00945	SULFATE, TOTAL (MG/L AS SO4)	08/27/68-08/27/68	0	1	
PAIS0119	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	06/22/77-03/30/82	4	9	
PAIS0121	No	00945	SULFATE, TOTAL (MG/L AS SO4)	08/27/68-02/01/77	8	3	
PAIS0151	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	07/21/98-07/21/98	0	1	
PAIS0165	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	04/08/98-04/08/98	0	1	
PAIS0182	No	00945	SULFATE, TOTAL (MG/L AS SO4)	10/23/73-07/29/96	22	89	T,S
PAIS0209	No	00945	SULFATE, TOTAL (MG/L AS SO4)	08/28/68-09/16/69	1	3	
PAIS0210	No	00945	SULFATE, TOTAL (MG/L AS SO4)	08/28/68-09/16/69	1	3	
PAIS0255	No	00945	SULFATE, TOTAL (MG/L AS SO4)	01/06/75-07/16/96	21	83	T,S
PAIS0013	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	10/07/70-10/07/70	0	1	
PAIS0051	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	10/07/70-10/07/70	0	1	
PAIS0012	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/30/75-08/25/76	0	3	
PAIS0013	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/11/69-09/11/69	0	1	
PAIS0016	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/11/69-10/07/70	1	2	
PAIS0022	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	06/27/78-06/27/78	0	1	
PAIS0023	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	02/01/77-03/29/82	5	10	
PAIS0049	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/27/72-06/04/75	2	4	
PAIS0050	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/11/69-08/26/76	6	6	
PAIS0051	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/11/69-09/11/69	0	2	
PAIS0081	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/16/69-03/30/82	12	17	
PAIS0082	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/16/69-02/05/75	5	3	
PAIS0085	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/16/69-09/16/69	0	1	
PAIS0096	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/15/69-06/27/78	8	2	
PAIS0098	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/15/69-09/15/69	0	1	
PAIS0119	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	06/22/77-03/30/82	4	9	
PAIS0121	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/17/73-02/01/77	3	2	
PAIS0209	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/16/69-09/16/69	0	1	
PAIS0210	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/16/69-09/16/69	0	1	
PAIS0007	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/20/68-10/07/70	2	5	
PAIS0009	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/11/69-10/07/70	1	4	
PAIS0010	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/11/69-10/07/70	1	4	
PAIS0011	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/20/68-08/20/68	0	1	
PAIS0012	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/20/68-08/25/76	8	12	
PAIS0013	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/11/69-10/07/70	1	4	
PAIS0016	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/11/69-10/07/70	1	4	
PAIS0022	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	05/23/73-06/27/78	5	5	
PAIS0023	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/27/72-03/29/82	9	14	
PAIS0030	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/11/69-10/07/70	1	3	
PAIS0031	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/11/69-10/07/70	1	3	
PAIS0032	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/11/69-10/07/70	1	3	
PAIS0033	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/11/69-10/07/70	1	4	
PAIS0034	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/11/69-10/07/70	1	4	
PAIS0048	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/23/68-08/23/68	0	2	
PAIS0049	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/23/68-06/04/75	6	12	
PAIS0050	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/11/69-08/26/76	6	7	
PAIS0051	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/11/69-10/07/70	1	4	
PAIS0063	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/26/68-08/26/68	0	1	
PAIS0064	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/26/68-08/26/68	0	1	
PAIS0080	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/16/69-09/16/69	0	2	
PAIS0081	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/16/69-03/30/82	12	25	
PAIS0082	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/16/69-02/05/75	5	11	
PAIS0083	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/16/69-09/16/69	0	2	
PAIS0085	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/16/69-09/16/69	0	2	
PAIS0096	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/15/69-06/27/78	8	3	
PAIS0098	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/15/69-09/15/69	0	2	
PAIS0117	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/16/69-09/16/69	0	1	

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

Station/Parameter Period of Record Tabulation
From 05/01/41 To 09/23/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
PAIS0118	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/27/68-09/16/69	1	3	
PAIS0119	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/16/69-03/30/82	12	10	
PAIS0121	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/27/68-02/01/77	8	12	
PAIS0209	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/28/68-10/08/70	2	6	
PAIS0210	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/28/68-10/08/70	2	6	
PAIS0213	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/16/69-09/16/69	0	1	
PAIS0219	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/16/69-09/16/69	0	1	
PAIS0022	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/23/74-10/30/75	1	2	
PAIS0049	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/23/74-10/23/74	0	1	
PAIS0081	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/23/74-10/23/74	0	1	
PAIS0082	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/23/74-10/23/74	0	1	
PAIS0119	Yes	01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/23/74-10/23/74	0	1	
PAIS0121	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	09/28/72-10/17/73	1	2	
PAIS0136	Yes	01000	ARSENIC, DISSOLVED (UG/L AS AS)	09/15/89-09/15/89	0	1	
PAIS0152	Yes	01000	ARSENIC, DISSOLVED (UG/L AS AS)	09/15/89-09/15/89	0	1	
PAIS0172	Yes	01000	ARSENIC, DISSOLVED (UG/L AS AS)	09/15/89-09/15/89	0	1	
PAIS0018	No	01002	ARSENIC, TOTAL (UG/L AS AS)	10/07/70-10/07/70	0	1	
PAIS0019	No	01002	ARSENIC, TOTAL (UG/L AS AS)	10/07/70-10/07/70	0	1	
PAIS0049	No	01002	ARSENIC, TOTAL (UG/L AS AS)	10/23/74-10/23/74	0	1	
PAIS0100	No	01002	ARSENIC, TOTAL (UG/L AS AS)	08/03/83-08/03/83	0	1	
PAIS0103	No	01002	ARSENIC, TOTAL (UG/L AS AS)	09/30/70-09/30/70	0	1	
PAIS0104	No	01002	ARSENIC, TOTAL (UG/L AS AS)	09/30/70-09/30/70	0	1	
PAIS0119	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	10/23/74-10/23/74	0	1	
PAIS0182	No	01002	ARSENIC, TOTAL (UG/L AS AS)	07/17/74-08/03/83	9	2	
PAIS0255	No	01002	ARSENIC, TOTAL (UG/L AS AS)	08/03/83-08/03/83	0	1	
PAIS0019	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	10/13/83-10/13/83	0	1	
PAIS0022	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	10/30/75-10/30/75	0	1	
PAIS0182	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	10/23/73-08/08/89	15	14	
PAIS0019	No	01004	ARSENIC TOTAL IN FISH OR ANIMAL WET WT MG/KG	07/26/83-07/26/83	0	2	
PAIS0182	No	01004	ARSENIC TOTAL IN FISH OR ANIMAL WET WT MG/KG	05/27/86-08/08/89	3	6	
PAIS0018	No	01007	BARIUM, TOTAL (UG/L AS BA)	10/07/70-10/07/70	0	1	
PAIS0019	No	01007	BARIUM, TOTAL (UG/L AS BA)	10/07/70-10/07/70	0	1	
PAIS0100	No	01007	BARIUM, TOTAL (UG/L AS BA)	08/03/83-08/03/83	0	1	
PAIS0103	No	01007	BARIUM, TOTAL (UG/L AS BA)	09/30/70-09/30/70	0	1	
PAIS0104	No	01007	BARIUM, TOTAL (UG/L AS BA)	09/30/70-09/30/70	0	1	
PAIS0182	No	01007	BARIUM, TOTAL (UG/L AS BA)	07/17/74-08/03/83	9	2	
PAIS0255	No	01007	BARIUM, TOTAL (UG/L AS BA)	08/03/83-08/03/83	0	1	
PAIS0019	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	10/13/83-10/13/83	0	1	
PAIS0182	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	04/26/76-08/08/89	13	12	
PAIS0013	No	01020	BORON, DISSOLVED (UG/L AS B)	09/11/69-09/11/69	0	1	
PAIS0016	Yes	01020	BORON, DISSOLVED (UG/L AS B)	09/11/69-10/07/70	1	2	
PAIS0049	No	01020	BORON, DISSOLVED (UG/L AS B)	09/27/72-05/23/73	0	2	
PAIS0050	No	01020	BORON, DISSOLVED (UG/L AS B)	09/11/69-10/07/70	1	3	
PAIS0051	No	01020	BORON, DISSOLVED (UG/L AS B)	09/11/69-09/11/69	0	2	
PAIS0081	No	01020	BORON, DISSOLVED (UG/L AS B)	09/16/69-09/16/69	0	1	
PAIS0082	No	01020	BORON, DISSOLVED (UG/L AS B)	09/16/69-09/16/69	0	1	
PAIS0085	No	01020	BORON, DISSOLVED (UG/L AS B)	09/16/69-09/16/69	0	1	
PAIS0096	No	01020	BORON, DISSOLVED (UG/L AS B)	09/15/69-09/15/69	0	1	
PAIS0098	No	01020	BORON, DISSOLVED (UG/L AS B)	09/15/69-09/15/69	0	1	
PAIS0209	No	01020	BORON, DISSOLVED (UG/L AS B)	09/16/69-09/16/69	0	1	
PAIS0210	No	01020	BORON, DISSOLVED (UG/L AS B)	09/16/69-09/16/69	0	1	
PAIS0103	No	01022	BORON, TOTAL (UG/L AS B)	09/30/70-09/30/70	0	1	
PAIS0104	No	01022	BORON, TOTAL (UG/L AS B)	09/30/70-09/30/70	0	1	
PAIS0182	No	01022	BORON, TOTAL (UG/L AS B)	07/17/74-07/17/74	0	1	
PAIS0182	No	01023	BORON IN BOTTOM DEPOSITS (MG/KG AS B DRY WGT)	04/26/76-08/25/80	4	4	
PAIS0013	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/11/69-09/11/69	0	2	
PAIS0016	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/11/69-09/11/69	0	2	
PAIS0022	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	10/23/74-10/30/75	1	2	
PAIS0049	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	10/23/74-10/23/74	0	1	
PAIS0050	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/11/69-09/11/69	0	2	
PAIS0051	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/11/69-09/11/69	0	2	
PAIS0081	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	10/23/74-10/23/74	0	1	
PAIS0082	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	10/23/74-10/23/74	0	1	
PAIS0096	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/15/69-09/15/69	0	1	
PAIS0098	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/15/69-09/15/69	0	1	
PAIS0119	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	10/23/74-10/23/74	0	1	
PAIS0121	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/28/72-10/17/73	1	2	
PAIS0136	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/15/89-09/15/89	0	1	
PAIS0152	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/15/89-09/15/89	0	1	
PAIS0172	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/15/89-09/15/89	0	1	
PAIS0209	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/16/69-09/16/69	0	2	
PAIS0210	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/16/69-09/16/69	0	2	

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

Station/Parameter Period of Record Tabulation
From 05/01/41 To 09/23/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
PAIS0018	No	01027	CADMIUM, TOTAL (UG/L AS CD)	10/07/70-10/07/70	0	1	
PAIS0019	No	01027	CADMIUM, TOTAL (UG/L AS CD)	10/07/70-10/07/70	0	1	
PAIS0049	No	01027	CADMIUM, TOTAL (UG/L AS CD)	10/23/74-10/23/74	0	1	
PAIS0100	No	01027	CADMIUM, TOTAL (UG/L AS CD)	08/03/83-08/03/83	0	1	
PAIS0103	No	01027	CADMIUM, TOTAL (UG/L AS CD)	09/30/70-09/30/74	4	2	
PAIS0104	No	01027	CADMIUM, TOTAL (UG/L AS CD)	09/30/70-09/30/74	4	2	
PAIS0119	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	10/23/74-10/23/74	0	1	
PAIS0182	No	01027	CADMIUM, TOTAL (UG/L AS CD)	07/17/74-08/03/83	9	2	
PAIS0255	No	01027	CADMIUM, TOTAL (UG/L AS CD)	08/03/83-08/03/83	0	1	
PAIS0019	No	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	10/13/83-10/13/83	0	1	
PAIS0022	No	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	10/30/75-10/30/75	0	1	
PAIS0182	No	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	10/23/73-08/08/89	15	14	
PAIS0019	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	10/13/83-10/13/83	0	1	
PAIS0182	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	10/23/73-08/08/89	15	15	
PAIS0013	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/11/69-09/11/69	0	2	
PAIS0016	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/11/69-09/11/69	0	2	
PAIS0022	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/23/74-10/30/75	1	2	
PAIS0049	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/23/74-10/23/74	0	1	
PAIS0050	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/11/69-09/11/69	0	2	
PAIS0051	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/11/69-09/11/69	0	2	
PAIS0081	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/23/74-10/23/74	0	1	
PAIS0082	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/23/74-10/23/74	0	1	
PAIS0096	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/15/69-09/15/69	0	1	
PAIS0098	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/15/69-09/15/69	0	1	
PAIS0119	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/23/74-10/23/74	0	1	
PAIS0121	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/28/72-09/28/72	0	1	
PAIS0136	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/15/89-09/15/89	0	1	
PAIS0152	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/15/89-09/15/89	0	1	
PAIS0172	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/15/89-09/15/89	0	1	
PAIS0209	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/16/69-09/16/69	0	2	
PAIS0210	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/16/69-09/16/69	0	1	
PAIS0210	No	01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	09/16/69-09/16/69	0	1	
PAIS0018	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	10/07/70-10/07/70	0	1	
PAIS0019	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	10/07/70-10/07/70	0	1	
PAIS0049	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	10/23/74-10/23/74	0	1	
PAIS0100	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	08/03/83-08/03/83	0	1	
PAIS0103	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	09/30/70-09/30/70	0	1	
PAIS0104	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	09/30/70-09/30/70	0	1	
PAIS0119	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	10/23/74-10/23/74	0	1	
PAIS0182	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	07/17/74-08/03/83	9	2	
PAIS0255	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	08/03/83-08/03/83	0	1	
PAIS0022	No	01035	COBALT, DISSOLVED (UG/L AS CO)	10/23/74-10/30/75	1	2	
PAIS0049	No	01035	COBALT, DISSOLVED (UG/L AS CO)	10/23/74-10/23/74	0	1	
PAIS0081	No	01035	COBALT, DISSOLVED (UG/L AS CO)	10/23/74-10/23/74	0	1	
PAIS0082	No	01035	COBALT, DISSOLVED (UG/L AS CO)	10/23/74-10/23/74	0	1	
PAIS0119	Yes	01035	COBALT, DISSOLVED (UG/L AS CO)	10/23/74-10/23/74	0	1	
PAIS0121	No	01035	COBALT, DISSOLVED (UG/L AS CO)	10/17/73-10/17/73	0	1	
PAIS0049	No	01037	COBALT, TOTAL (UG/L AS CO)	10/23/74-10/23/74	0	1	
PAIS0119	Yes	01037	COBALT, TOTAL (UG/L AS CO)	10/23/74-10/23/74	0	1	
PAIS0022	No	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	10/30/75-10/30/75	0	1	
PAIS0013	No	01040	COPPER, DISSOLVED (UG/L AS CU)	09/11/69-09/11/69	0	2	
PAIS0016	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	09/11/69-09/11/69	0	2	
PAIS0022	No	01040	COPPER, DISSOLVED (UG/L AS CU)	10/23/74-10/30/75	1	2	
PAIS0049	No	01040	COPPER, DISSOLVED (UG/L AS CU)	10/23/74-10/23/74	0	1	
PAIS0050	No	01040	COPPER, DISSOLVED (UG/L AS CU)	09/11/69-09/11/69	0	2	
PAIS0051	No	01040	COPPER, DISSOLVED (UG/L AS CU)	09/11/69-09/11/69	0	2	
PAIS0081	No	01040	COPPER, DISSOLVED (UG/L AS CU)	10/23/74-10/23/74	0	1	
PAIS0082	No	01040	COPPER, DISSOLVED (UG/L AS CU)	10/23/74-10/23/74	0	1	
PAIS0096	No	01040	COPPER, DISSOLVED (UG/L AS CU)	09/15/69-09/15/69	0	1	
PAIS0098	No	01040	COPPER, DISSOLVED (UG/L AS CU)	09/15/69-09/15/69	0	1	
PAIS0119	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	10/23/74-10/23/74	0	1	
PAIS0121	No	01040	COPPER, DISSOLVED (UG/L AS CU)	09/28/72-10/17/73	1	2	
PAIS0136	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	09/15/89-09/15/89	0	1	
PAIS0152	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	09/15/89-09/15/89	0	1	
PAIS0172	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	09/15/89-09/15/89	0	1	
PAIS0209	No	01040	COPPER, DISSOLVED (UG/L AS CU)	09/16/69-09/16/69	0	2	
PAIS0210	No	01040	COPPER, DISSOLVED (UG/L AS CU)	09/16/69-09/16/69	0	2	
PAIS0018	No	01042	COPPER, TOTAL (UG/L AS CU)	10/07/70-10/07/70	0	1	
PAIS0019	No	01042	COPPER, TOTAL (UG/L AS CU)	10/07/70-10/07/70	0	1	
PAIS0049	No	01042	COPPER, TOTAL (UG/L AS CU)	10/23/74-10/23/74	0	1	
PAIS0100	No	01042	COPPER, TOTAL (UG/L AS CU)	08/03/83-08/03/83	0	1	
PAIS0103	No	01042	COPPER, TOTAL (UG/L AS CU)	09/30/70-09/30/74	4	2	

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

Station/Parameter Period of Record Tabulation
From 05/01/41 To 09/23/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
PAIS0104	No	01042	COPPER, TOTAL (UG/L AS CU)	09/30/70-09/30/70	0	1	
PAIS0119	Yes	01042	COPPER, TOTAL (UG/L AS CU)	10/23/74-10/23/74	0	1	
PAIS0182	No	01042	COPPER, TOTAL (UG/L AS CU)	07/17/74-08/03/83	9	2	
PAIS0252	No	01042	COPPER, TOTAL (UG/L AS CU)	09/15/73-08/15/74	0	4	
PAIS0253	No	01042	COPPER, TOTAL (UG/L AS CU)	09/15/73-08/15/74	0	6	
PAIS0255	No	01042	COPPER, TOTAL (UG/L AS CU)	08/03/83-08/03/83	0	1	
PAIS0256	No	01042	COPPER, TOTAL (UG/L AS CU)	09/15/73-08/15/74	0	6	
PAIS0257	No	01042	COPPER, TOTAL (UG/L AS CU)	08/15/74-08/15/74	0	2	
PAIS0019	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	10/13/83-10/13/83	0	1	
PAIS0022	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	10/30/75-10/30/75	0	1	
PAIS0182	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	10/23/73-08/08/89	15	15	
PAIS0011	No	01045	IRON, TOTAL (UG/L AS FE)	08/20/68-08/20/68	0	2	
PAIS0012	No	01045	IRON, TOTAL (UG/L AS FE)	08/20/68-08/20/68	0	2	
PAIS0013	No	01045	IRON, TOTAL (UG/L AS FE)	09/11/69-09/11/69	0	2	
PAIS0016	Yes	01045	IRON, TOTAL (UG/L AS FE)	09/11/69-09/11/69	0	2	
PAIS0025	No	01045	IRON, TOTAL (UG/L AS FE)	08/22/68-08/22/68	0	2	
PAIS0048	No	01045	IRON, TOTAL (UG/L AS FE)	08/23/68-08/23/68	0	2	
PAIS0049	No	01045	IRON, TOTAL (UG/L AS FE)	10/23/74-10/23/74	0	1	
PAIS0050	No	01045	IRON, TOTAL (UG/L AS FE)	09/11/69-09/11/69	0	2	
PAIS0051	No	01045	IRON, TOTAL (UG/L AS FE)	09/11/69-09/11/69	0	2	
PAIS0064	No	01045	IRON, TOTAL (UG/L AS FE)	08/26/68-08/26/68	0	2	
PAIS0096	No	01045	IRON, TOTAL (UG/L AS FE)	09/15/69-09/15/69	0	1	
PAIS0098	No	01045	IRON, TOTAL (UG/L AS FE)	09/15/69-09/15/69	0	1	
PAIS0100	No	01045	IRON, TOTAL (UG/L AS FE)	08/03/83-08/03/83	0	1	
PAIS0118	No	01045	IRON, TOTAL (UG/L AS FE)	08/27/68-08/27/68	0	2	
PAIS0119	Yes	01045	IRON, TOTAL (UG/L AS FE)	10/23/74-10/23/74	0	1	
PAIS0182	No	01045	IRON, TOTAL (UG/L AS FE)	07/17/74-08/03/83	9	2	
PAIS0209	No	01045	IRON, TOTAL (UG/L AS FE)	09/16/69-09/16/69	0	2	
PAIS0210	No	01045	IRON, TOTAL (UG/L AS FE)	09/16/69-09/16/69	0	2	
PAIS0252	No	01045	IRON, TOTAL (UG/L AS FE)	09/15/73-08/15/74	0	3	
PAIS0253	No	01045	IRON, TOTAL (UG/L AS FE)	09/15/73-08/15/74	0	4	
PAIS0255	No	01045	IRON, TOTAL (UG/L AS FE)	08/03/83-08/03/83	0	1	
PAIS0256	No	01045	IRON, TOTAL (UG/L AS FE)	09/15/73-08/15/74	0	4	
PAIS0257	No	01045	IRON, TOTAL (UG/L AS FE)	08/15/74-08/15/74	0	2	
PAIS0022	No	01046	IRON, DISSOLVED (UG/L AS FE)	10/23/74-10/30/75	1	2	
PAIS0049	No	01046	IRON, DISSOLVED (UG/L AS FE)	10/23/74-10/23/74	0	1	
PAIS0081	No	01046	IRON, DISSOLVED (UG/L AS FE)	10/23/74-10/23/74	0	1	
PAIS0082	No	01046	IRON, DISSOLVED (UG/L AS FE)	10/23/74-10/23/74	0	1	
PAIS0119	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	10/23/74-10/23/74	0	1	
PAIS0121	No	01046	IRON, DISSOLVED (UG/L AS FE)	09/28/72-10/17/73	1	2	
PAIS0136	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	09/15/89-09/15/89	0	1	
PAIS0152	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	09/15/89-09/15/89	0	1	
PAIS0172	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	09/15/89-09/15/89	0	1	
PAIS0013	No	01049	LEAD, DISSOLVED (UG/L AS PB)	09/11/69-09/11/69	0	2	
PAIS0016	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	09/11/69-09/11/69	0	2	
PAIS0022	No	01049	LEAD, DISSOLVED (UG/L AS PB)	10/23/74-10/30/75	1	2	
PAIS0049	No	01049	LEAD, DISSOLVED (UG/L AS PB)	10/23/74-10/23/74	0	1	
PAIS0050	No	01049	LEAD, DISSOLVED (UG/L AS PB)	09/11/69-09/11/69	0	2	
PAIS0051	No	01049	LEAD, DISSOLVED (UG/L AS PB)	09/11/69-09/11/69	0	2	
PAIS0081	No	01049	LEAD, DISSOLVED (UG/L AS PB)	10/23/74-10/23/74	0	1	
PAIS0082	No	01049	LEAD, DISSOLVED (UG/L AS PB)	10/23/74-10/23/74	0	1	
PAIS0096	No	01049	LEAD, DISSOLVED (UG/L AS PB)	09/15/69-09/15/69	0	1	
PAIS0098	No	01049	LEAD, DISSOLVED (UG/L AS PB)	09/15/69-09/15/69	0	1	
PAIS0119	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	10/23/74-10/23/74	0	1	
PAIS0121	No	01049	LEAD, DISSOLVED (UG/L AS PB)	09/28/72-10/17/73	1	2	
PAIS0136	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	09/15/89-09/15/89	0	1	
PAIS0152	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	09/15/89-09/15/89	0	1	
PAIS0172	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	09/15/89-09/15/89	0	1	
PAIS0209	No	01049	LEAD, DISSOLVED (UG/L AS PB)	09/16/69-09/16/69	0	2	
PAIS0210	No	01049	LEAD, DISSOLVED (UG/L AS PB)	09/16/69-09/16/69	0	2	
PAIS0018	No	01051	LEAD, TOTAL (UG/L AS PB)	10/07/70-10/07/70	0	1	
PAIS0019	No	01051	LEAD, TOTAL (UG/L AS PB)	10/07/70-10/07/70	0	1	
PAIS0049	No	01051	LEAD, TOTAL (UG/L AS PB)	10/23/74-10/23/74	0	1	
PAIS0100	No	01051	LEAD, TOTAL (UG/L AS PB)	08/03/83-08/03/83	0	1	
PAIS0103	No	01051	LEAD, TOTAL (UG/L AS PB)	09/30/70-09/30/74	4	2	
PAIS0104	No	01051	LEAD, TOTAL (UG/L AS PB)	09/30/70-09/30/74	4	2	
PAIS0119	Yes	01051	LEAD, TOTAL (UG/L AS PB)	10/23/74-10/23/74	0	1	
PAIS0182	No	01051	LEAD, TOTAL (UG/L AS PB)	07/17/74-08/03/83	9	2	
PAIS0255	No	01051	LEAD, TOTAL (UG/L AS PB)	08/03/83-08/03/83	0	1	
PAIS0019	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	10/13/83-10/13/83	0	1	
PAIS0022	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	10/30/75-10/30/75	0	1	
PAIS0182	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	10/23/73-08/08/89	15	15	

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

Station/Parameter Period of Record Tabulation
From 05/01/41 To 09/23/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
PAIS0019	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	10/13/83-10/13/83	0	1	
PAIS0022	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	10/30/75-10/30/75	0	1	
PAIS0182	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	10/23/73-08/08/89	15	15	
PAIS0018	No	01055	MANGANESE, TOTAL (UG/L AS MN)	10/07/70-10/07/70	0	1	
PAIS0019	No	01055	MANGANESE, TOTAL (UG/L AS MN)	10/07/70-10/07/70	0	1	
PAIS0049	No	01055	MANGANESE, TOTAL (UG/L AS MN)	10/23/74-10/23/74	0	1	
PAIS0100	No	01055	MANGANESE, TOTAL (UG/L AS MN)	08/03/83-08/03/83	0	1	
PAIS0103	No	01055	MANGANESE, TOTAL (UG/L AS MN)	09/30/70-09/30/70	0	1	
PAIS0104	No	01055	MANGANESE, TOTAL (UG/L AS MN)	09/30/70-09/30/70	0	1	
PAIS0119	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	10/23/74-10/23/74	0	1	
PAIS0182	No	01055	MANGANESE, TOTAL (UG/L AS MN)	07/17/74-08/03/83	9	2	
PAIS0255	No	01055	MANGANESE, TOTAL (UG/L AS MN)	08/03/83-08/03/83	0	1	
PAIS0011	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/20/68-08/20/68	0	2	
PAIS0012	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/20/68-08/20/68	0	2	
PAIS0013	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/11/69-09/11/69	0	2	
PAIS0016	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/11/69-09/11/69	0	2	
PAIS0022	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/23/74-10/30/75	1	2	
PAIS0025	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/22/68-08/22/68	0	2	
PAIS0048	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/23/68-08/23/68	0	2	
PAIS0049	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/23/74-10/23/74	0	1	
PAIS0050	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/11/69-09/11/69	0	2	
PAIS0051	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/11/69-09/11/69	0	2	
PAIS0064	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/26/68-08/26/68	0	2	
PAIS0081	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/23/74-10/23/74	0	1	
PAIS0082	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/23/74-10/23/74	0	1	
PAIS0096	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/15/69-09/15/69	0	1	
PAIS0098	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/15/69-09/15/69	0	1	
PAIS0118	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/27/68-08/27/68	0	2	
PAIS0119	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/23/74-10/23/74	0	1	
PAIS0121	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/28/72-10/17/73	1	2	
PAIS0209	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/16/69-09/16/69	0	2	
PAIS0210	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/16/69-09/16/69	0	2	
PAIS0022	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	10/23/74-10/30/75	1	2	
PAIS0049	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	10/23/74-10/23/74	0	1	
PAIS0081	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	10/23/74-10/23/74	0	1	
PAIS0082	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	10/23/74-10/23/74	0	1	
PAIS0119	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	10/23/74-10/23/74	0	1	
PAIS0121	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	10/17/73-10/17/73	0	1	
PAIS0018	No	01067	NICKEL, TOTAL (UG/L AS NI)	10/07/70-10/07/70	0	1	
PAIS0019	No	01067	NICKEL, TOTAL (UG/L AS NI)	10/07/70-10/07/70	0	1	
PAIS0100	No	01067	NICKEL, TOTAL (UG/L AS NI)	08/03/83-08/03/83	0	1	
PAIS0103	No	01067	NICKEL, TOTAL (UG/L AS NI)	09/30/70-09/30/70	0	1	
PAIS0104	No	01067	NICKEL, TOTAL (UG/L AS NI)	09/30/70-09/30/70	0	1	
PAIS0182	No	01067	NICKEL, TOTAL (UG/L AS NI)	07/17/74-08/03/83	9	2	
PAIS0255	No	01067	NICKEL, TOTAL (UG/L AS NI)	08/03/83-08/03/83	0	1	
PAIS0019	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	10/13/83-10/13/83	0	1	
PAIS0182	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	10/23/73-08/08/89	15	15	
PAIS0018	No	01077	SILVER, TOTAL (UG/L AS AG)	10/07/70-10/07/70	0	1	
PAIS0019	No	01077	SILVER, TOTAL (UG/L AS AG)	10/07/70-10/07/70	0	1	
PAIS0100	No	01077	SILVER, TOTAL (UG/L AS AG)	08/03/83-08/03/83	0	1	
PAIS0103	No	01077	SILVER, TOTAL (UG/L AS AG)	09/30/70-09/30/70	0	1	
PAIS0104	No	01077	SILVER, TOTAL (UG/L AS AG)	09/30/70-09/30/70	0	1	
PAIS0182	No	01077	SILVER, TOTAL (UG/L AS AG)	07/17/74-08/03/83	9	2	
PAIS0255	No	01077	SILVER, TOTAL (UG/L AS AG)	08/03/83-08/03/83	0	1	
PAIS0019	No	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	10/13/83-10/13/83	0	1	
PAIS0182	No	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	10/23/73-04/26/88	14	14	
PAIS0012	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	08/20/68-08/20/68	0	2	
PAIS0016	Yes	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	09/11/69-09/11/69	0	2	
PAIS0022	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/23/74-10/30/75	1	2	
PAIS0049	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/23/74-10/23/74	0	1	
PAIS0050	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	09/11/69-09/11/69	0	2	
PAIS0081	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/23/74-10/23/74	0	1	
PAIS0082	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/23/74-10/23/74	0	1	
PAIS0096	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	09/15/69-09/15/69	0	1	
PAIS0119	Yes	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/23/74-10/23/74	0	1	
PAIS0121	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	09/28/72-10/17/73	1	2	
PAIS0136	Yes	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	09/15/89-09/15/89	0	1	
PAIS0152	Yes	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	09/15/89-09/15/89	0	1	
PAIS0172	Yes	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	09/15/89-09/15/89	0	1	
PAIS0210	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	09/16/69-09/16/69	0	2	
PAIS0011	No	01082	STRONTIUM, TOTAL (UG/L AS SR)	08/20/68-08/20/68	0	2	
PAIS0013	No	01082	STRONTIUM, TOTAL (UG/L AS SR)	09/11/69-09/11/69	0	2	

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

Station/Parameter Period of Record Tabulation
From 05/01/41 To 09/23/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
PAIS0025	No	01082	STRONTIUM, TOTAL (UG/L AS SR)	08/22/68-08/22/68	0	2	
PAIS0048	No	01082	STRONTIUM, TOTAL (UG/L AS SR)	08/23/68-08/23/68	0	2	
PAIS0051	No	01082	STRONTIUM, TOTAL (UG/L AS SR)	09/11/69-09/11/69	0	2	
PAIS0064	No	01082	STRONTIUM, TOTAL (UG/L AS SR)	08/26/68-08/26/68	0	2	
PAIS0098	No	01082	STRONTIUM, TOTAL (UG/L AS SR)	09/15/69-09/15/69	0	1	
PAIS0118	No	01082	STRONTIUM, TOTAL (UG/L AS SR)	08/27/68-08/27/68	0	2	
PAIS0209	No	01082	STRONTIUM, TOTAL (UG/L AS SR)	09/16/69-09/16/69	0	2	
PAIS0011	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	08/20/68-08/20/68	0	2	
PAIS0013	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	09/11/69-09/11/69	0	2	
PAIS0016	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	09/11/69-09/11/69	0	2	
PAIS0022	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	10/23/74-10/30/75	1	2	
PAIS0025	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	08/22/68-08/22/68	0	2	
PAIS0048	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	08/23/68-08/23/68	0	2	
PAIS0049	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	10/23/74-10/23/74	0	1	
PAIS0050	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	09/11/69-09/11/69	0	2	
PAIS0051	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	09/11/69-09/11/69	0	2	
PAIS0064	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	08/26/68-08/26/68	0	2	
PAIS0081	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	10/23/74-10/23/74	0	1	
PAIS0082	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	10/23/74-10/23/74	0	1	
PAIS0096	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	09/15/69-09/15/69	0	1	
PAIS0098	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	09/15/69-09/15/69	0	1	
PAIS0118	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	08/27/68-08/27/68	0	2	
PAIS0119	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	10/23/74-10/23/74	0	1	
PAIS0121	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	09/28/72-10/17/73	1	2	
PAIS0136	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	09/15/89-09/15/89	0	1	
PAIS0152	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	09/15/89-09/15/89	0	1	
PAIS0172	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	09/15/89-09/15/89	0	1	
PAIS0209	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	09/16/69-09/16/69	0	2	
PAIS0210	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	09/16/69-09/16/69	0	2	
PAIS0018	No	01092	ZINC, TOTAL (UG/L AS ZN)	10/07/70-10/07/70	0	1	
PAIS0019	No	01092	ZINC, TOTAL (UG/L AS ZN)	10/07/70-10/07/70	0	1	
PAIS0049	No	01092	ZINC, TOTAL (UG/L AS ZN)	10/23/74-10/23/74	0	1	
PAIS0100	No	01092	ZINC, TOTAL (UG/L AS ZN)	08/03/83-08/03/83	0	1	
PAIS0103	No	01092	ZINC, TOTAL (UG/L AS ZN)	09/30/70-09/30/74	4	2	
PAIS0104	No	01092	ZINC, TOTAL (UG/L AS ZN)	09/30/70-09/30/70	0	1	
PAIS0119	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	10/23/74-10/23/74	0	1	
PAIS0182	No	01092	ZINC, TOTAL (UG/L AS ZN)	07/17/74-08/03/83	9	2	
PAIS0252	No	01092	ZINC, TOTAL (UG/L AS ZN)	09/15/73-08/15/74	0	3	
PAIS0253	No	01092	ZINC, TOTAL (UG/L AS ZN)	09/15/73-08/15/74	0	4	
PAIS0255	No	01092	ZINC, TOTAL (UG/L AS ZN)	08/03/83-08/03/83	0	1	
PAIS0256	No	01092	ZINC, TOTAL (UG/L AS ZN)	09/15/73-08/15/74	0	4	
PAIS0257	No	01092	ZINC, TOTAL (UG/L AS ZN)	08/15/74-08/15/74	0	2	
PAIS0019	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	10/13/83-10/13/83	0	1	
PAIS0022	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	10/30/75-10/30/75	0	1	
PAIS0103	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	09/30/74-09/30/74	0	1	
PAIS0182	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	10/23/73-08/08/89	15	13	
PAIS0022	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/23/74-10/30/75	1	2	
PAIS0049	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/23/74-10/23/74	0	1	
PAIS0081	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/23/74-10/23/74	0	1	
PAIS0082	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/23/74-10/23/74	0	1	
PAIS0119	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/23/74-10/23/74	0	1	
PAIS0011	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	08/20/68-08/20/68	0	2	
PAIS0012	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	08/20/68-08/20/68	0	2	
PAIS0013	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	09/11/69-09/11/69	0	2	
PAIS0016	Yes	01130	LITHIUM, DISSOLVED (UG/L AS LI)	09/11/69-09/11/69	0	2	
PAIS0022	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/23/74-10/30/75	1	2	
PAIS0025	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	08/22/68-08/22/68	0	2	
PAIS0048	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	08/23/68-08/23/68	0	2	
PAIS0049	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/23/74-10/23/74	0	1	
PAIS0050	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	09/11/69-09/11/69	0	2	
PAIS0051	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	09/11/69-09/11/69	0	2	
PAIS0064	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	08/26/68-08/26/68	0	2	
PAIS0081	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/23/74-10/23/74	0	1	
PAIS0082	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/23/74-10/23/74	0	1	
PAIS0096	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	09/15/69-09/15/69	0	1	
PAIS0098	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	09/15/69-09/15/69	0	1	
PAIS0118	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	08/27/68-08/27/68	0	2	
PAIS0119	Yes	01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/23/74-10/23/74	0	1	
PAIS0121	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	09/28/72-10/17/73	1	2	
PAIS0209	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	09/16/69-09/16/69	0	2	
PAIS0210	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	09/16/69-09/16/69	0	2	
PAIS0018	No	01147	SELENIUM, TOTAL (UG/L AS SE)	10/07/70-10/07/70	0	1	

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

Station/Parameter Period of Record Tabulation
From 05/01/41 To 09/23/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
PAIS0019	No	01147	SELENIUM, TOTAL (UG/L AS SE)	10/07/70-10/07/70	0	1	
PAIS0103	No	01147	SELENIUM, TOTAL (UG/L AS SE)	09/30/70-09/30/70	0	1	
PAIS0182	No	01147	SELENIUM, TOTAL (UG/L AS SE)	07/17/74-07/17/74	0	1	
PAIS0019	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	10/13/83-10/13/83	0	1	
PAIS0182	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	07/06/77-08/08/89	12	7	
PAIS0182	No	01149	SELENIUM, TOTAL IN FISH OR ANIMALS WET WGT MG/KG	05/27/86-08/08/89	3	6	
PAIS0255	No	01351	FLOW, STRM,1DRY,2LOW,3NORM,4FLOOD,5ABOVE NORM,CODE	02/12/90-02/12/90	0	1	
PAIS0136	Yes	03582	OIL AND GREASE, WATER, TOTAL MG/L	09/15/89-09/15/89	0	1	
PAIS0152	Yes	03582	OIL AND GREASE, WATER, TOTAL MG/L	09/15/89-09/15/89	0	1	
PAIS0172	Yes	03582	OIL AND GREASE, WATER, TOTAL MG/L	09/15/89-09/15/89	0	1	
PAIS0018	No	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	09/18/75-11/20/80	5	13	
PAIS0019	No	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	03/17/75-08/05/81	6	18	
PAIS0022	No	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	05/23/73-06/04/75	2	4	
PAIS0023	No	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	09/27/72-05/23/73	0	2	
PAIS0044	No	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	03/17/75-08/05/81	6	18	
PAIS0045	No	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	03/17/75-06/06/78	3	8	
PAIS0049	No	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	10/23/74-06/04/75	0	2	
PAIS0081	No	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	10/23/74-06/04/75	0	2	
PAIS0082	No	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	10/23/74-10/23/74	0	1	
PAIS0099	No	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/17/74-10/27/75	1	4	
PAIS0100	No	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	10/23/73-05/08/85	11	33	
PAIS0102	No	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/07/72-07/07/72	0	1	
PAIS0106	No	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/07/72-07/07/72	0	1	
PAIS0110	No	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/07/72-07/07/72	0	1	
PAIS0115	Yes	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/07/72-07/07/72	0	1	
PAIS0119	Yes	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	10/23/74-10/23/74	0	1	
PAIS0121	No	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	09/28/72-04/24/74	1	3	
PAIS0125	Yes	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/07/72-07/07/72	0	1	
PAIS0134	Yes	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/07/72-07/07/72	0	1	
PAIS0150	Yes	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/07/72-07/07/72	0	1	
PAIS0168	Yes	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/07/72-07/07/72	0	1	
PAIS0181	No	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/17/74-03/09/78	3	7	
PAIS0182	No	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	10/23/73-05/01/85	11	37	
PAIS0189	Yes	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/07/72-07/07/72	0	1	
PAIS0204	Yes	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/07/72-07/07/72	0	1	
PAIS0212	Yes	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/07/72-07/07/72	0	1	
PAIS0237	No	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/07/72-07/07/72	0	1	
PAIS0245	No	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/07/72-07/07/72	0	1	
PAIS0250	No	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/07/72-07/07/72	0	1	
PAIS0254	No	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	04/06/77-03/09/78	0	2	
PAIS0255	No	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	01/06/75-05/01/85	10	29	
PAIS0018	No	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	05/11/71-03/21/73	1	4	
PAIS0019	No	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	10/07/70-03/21/73	2	6	
PAIS0044	No	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	06/09/72-03/21/73	0	3	
PAIS0100	No	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	04/18/72-07/03/73	1	6	
PAIS0018	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/19/79-08/30/94	15	22	
PAIS0019	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	03/17/75-07/16/96	21	46	S
PAIS0022	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/23/73-06/04/75	2	4	
PAIS0023	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/27/72-05/23/73	0	2	
PAIS0044	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	03/17/75-04/21/94	19	38	
PAIS0045	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	03/17/75-03/17/75	0	1	
PAIS0049	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/04/72-06/04/75	3	3	
PAIS0081	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/23/74-06/04/75	0	2	
PAIS0082	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/23/74-10/23/74	0	1	
PAIS0100	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/23/73-07/25/96	22	37	S
PAIS0102	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/07/72-07/07/72	0	1	
PAIS0106	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/07/72-07/07/72	0	1	
PAIS0110	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/07/72-07/07/72	0	1	
PAIS0115	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/07/72-07/07/72	0	1	
PAIS0119	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/23/74-10/23/74	0	1	
PAIS0121	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/28/72-04/24/74	1	3	
PAIS0125	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/07/72-07/07/72	0	1	
PAIS0134	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/07/72-07/07/72	0	1	
PAIS0150	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/07/72-07/07/72	0	1	
PAIS0168	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/07/72-07/07/72	0	1	
PAIS0175	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	11/18/93-09/27/94	0	20	
PAIS0182	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/23/73-07/29/96	22	49	S
PAIS0189	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/07/72-07/07/72	0	1	
PAIS0204	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/07/72-07/07/72	0	1	
PAIS0212	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/07/72-07/07/72	0	1	
PAIS0237	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/07/72-07/07/72	0	1	
PAIS0245	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/07/72-07/07/72	0	1	

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

Station/Parameter Period of Record Tabulation
From 05/01/41 To 09/23/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
PAIS0250	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/07/72-07/07/72	0	1	
PAIS0255	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	03/13/84-07/16/96	12	31	
PAIS0018	No	31619	FECAL COLIFORM,MPN,BORIC ACID LACTOSE BR,43C,48HR	05/11/71-03/21/73	1	4	
PAIS0019	No	31619	FECAL COLIFORM,MPN,BORIC ACID LACTOSE BR,43C,48HR	10/07/70-08/22/95	24	24	S
PAIS0044	No	31619	FECAL COLIFORM,MPN,BORIC ACID LACTOSE BR,43C,48HR	06/09/72-03/21/73	0	2	
PAIS0099	No	31619	FECAL COLIFORM,MPN,BORIC ACID LACTOSE BR,43C,48HR	07/07/72-07/07/72	0	1	
PAIS0100	No	31619	FECAL COLIFORM,MPN,BORIC ACID LACTOSE BR,43C,48HR	04/18/72-07/03/73	1	6	
PAIS0153	Yes	31623	FECAL COLIFORM,MF,MFC MEDIUM,VERIFIED #/100ML	05/20/78-05/20/78	0	1	
PAIS0154	Yes	31623	FECAL COLIFORM,MF,MFC MEDIUM,VERIFIED #/100ML	05/20/78-05/20/78	0	1	
PAIS0155	Yes	31623	FECAL COLIFORM,MF,MFC MEDIUM,VERIFIED #/100ML	05/20/78-05/20/78	0	1	
PAIS0157	Yes	31623	FECAL COLIFORM,MF,MFC MEDIUM,VERIFIED #/100ML	05/20/78-05/20/78	0	1	
PAIS0158	Yes	31623	FECAL COLIFORM,MF,MFC MEDIUM,VERIFIED #/100ML	05/20/78-05/20/78	0	1	
PAIS0159	Yes	31623	FECAL COLIFORM,MF,MFC MEDIUM,VERIFIED #/100ML	05/20/78-05/20/78	0	1	
PAIS0161	Yes	31623	FECAL COLIFORM,MF,MFC MEDIUM,VERIFIED #/100ML	05/20/78-05/20/78	0	1	
PAIS0100	No	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	08/08/84-08/08/84	0	1	
PAIS0022	No	31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	05/23/73-06/04/75	2	4	
PAIS0023	No	31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	09/27/72-05/23/73	0	2	
PAIS0049	No	31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	10/23/74-06/04/75	0	2	
PAIS0081	No	31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	10/23/74-06/04/75	0	2	
PAIS0082	No	31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	10/23/74-10/23/74	0	1	
PAIS0119	Yes	31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	10/23/74-10/23/74	0	1	
PAIS0121	No	31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	09/28/72-04/24/74	1	3	
PAIS0018	No	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	02/23/72-08/30/94	22	49	S
PAIS0019	No	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	02/23/72-05/15/96	24	66	T,S
PAIS0044	No	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	02/23/72-04/21/94	22	62	T,S
PAIS0100	No	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	02/27/72-07/25/96	24	86	T,S
PAIS0182	No	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	10/23/73-07/29/96	22	84	T,S
PAIS0255	No	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	01/06/75-07/16/96	21	78	T,S
PAIS0151	Yes	32213	PHEOPHYTIN-A,FLUORIMETRIC METHOD (UG/L)	07/21/98-07/21/98	0	1	
PAIS0165	Yes	32213	PHEOPHYTIN-A,FLUORIMETRIC METHOD (UG/L)	04/08/98-04/08/98	0	1	
PAIS0151	Yes	32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	07/21/98-07/21/98	0	1	
PAIS0165	Yes	32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	04/08/98-04/08/98	0	1	
PAIS0018	No	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	02/06/78-08/30/94	16	33	
PAIS0019	No	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	02/06/78-05/15/96	18	49	
PAIS0044	No	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	02/06/78-04/21/94	16	46	
PAIS0100	No	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	10/07/76-07/25/96	19	68	T
PAIS0182	No	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	10/07/76-07/29/96	19	74	T
PAIS0255	No	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	10/07/76-07/16/96	19	74	
PAIS0045	No	32222	CHLOROPHYLL A IN BOTTOM DEPOSITS (UG/KG DRY WGT)	02/06/78-06/06/78	0	2	
PAIS0099	No	32222	CHLOROPHYLL A IN BOTTOM DEPOSITS (UG/KG DRY WGT)	10/07/76-09/07/77	0	2	
PAIS0181	No	32222	CHLOROPHYLL A IN BOTTOM DEPOSITS (UG/KG DRY WGT)	10/07/76-06/06/78	1	8	
PAIS0254	No	32222	CHLOROPHYLL A IN BOTTOM DEPOSITS (UG/KG DRY WGT)	10/07/76-06/06/78	1	8	
PAIS0015	No	32230	CHLOROPHYLL A (MG/L)	02/23/72-06/19/74	2	9	
PAIS0022	No	32230	CHLOROPHYLL A (MG/L)	04/23/74-02/11/76	1	5	
PAIS0049	No	32230	CHLOROPHYLL A (MG/L)	10/23/74-06/04/75	0	2	
PAIS0053	No	32230	CHLOROPHYLL A (MG/L)	02/23/72-09/17/74	2	9	
PAIS0081	No	32230	CHLOROPHYLL A (MG/L)	10/23/74-02/11/76	1	3	
PAIS0082	No	32230	CHLOROPHYLL A (MG/L)	10/23/74-10/23/74	0	1	
PAIS0101	No	32230	CHLOROPHYLL A (MG/L)	02/27/72-07/17/74	2	11	
PAIS0121	No	32230	CHLOROPHYLL A (MG/L)	04/24/74-04/24/74	0	1	
PAIS0149	Yes	32230	CHLOROPHYLL A (MG/L)	10/23/73-07/17/74	0	4	
PAIS0153	Yes	32230	CHLOROPHYLL A (MG/L)	08/18/78-08/18/78	0	1	
PAIS0158	Yes	32230	CHLOROPHYLL A (MG/L)	08/18/78-08/18/78	0	1	
PAIS0173	Yes	32230	CHLOROPHYLL A (MG/L)	08/18/78-08/18/78	0	1	
PAIS0022	No	32231	CHLOROPHYLL B (MG/L)	04/23/74-02/11/76	1	5	
PAIS0049	No	32231	CHLOROPHYLL B (MG/L)	06/04/72-10/23/74	2	2	
PAIS0081	No	32231	CHLOROPHYLL B (MG/L)	10/23/74-02/11/76	1	3	
PAIS0082	No	32231	CHLOROPHYLL B (MG/L)	10/23/74-10/23/74	0	1	
PAIS0121	No	32231	CHLOROPHYLL B (MG/L)	04/24/74-04/24/74	0	1	
PAIS0022	No	32232	CHLOROPHYLL C (MG/L)	04/23/74-02/11/76	1	5	
PAIS0049	No	32232	CHLOROPHYLL C (MG/L)	06/04/72-10/23/74	2	2	
PAIS0081	No	32232	CHLOROPHYLL C (MG/L)	10/23/74-02/11/76	1	3	
PAIS0082	No	32232	CHLOROPHYLL C (MG/L)	10/23/74-10/23/74	0	1	
PAIS0121	No	32232	CHLOROPHYLL C (MG/L)	04/24/74-04/24/74	0	1	
PAIS0012	No	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	10/30/75-08/25/76	0	3	
PAIS0022	No	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	05/23/73-08/26/76	3	9	
PAIS0023	No	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	09/27/72-05/23/73	0	4	
PAIS0081	No	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	05/23/73-08/26/76	3	11	
PAIS0082	No	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	05/23/73-02/05/75	1	8	
PAIS0121	No	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	05/24/73-05/24/73	0	1	
PAIS0019	No	32734	PHENOLICS,TISSUE,WET WEIGHT,MG/KG	07/26/83-07/26/83	0	2	
PAIS0019	No	34204	ACENAPHTHYLENE WET WGTTISMG/KG	07/26/83-07/26/83	0	2	

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

Station/Parameter Period of Record Tabulation
From 05/01/41 To 09/23/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
PAIS0019	No	34209	ACENAPHTHENE WET WGTTISMG/KG	07/26/83-07/26/83	0	2	
PAIS0019	No	34224	ANTHRACENE WET WGTTISMG/KG	07/26/83-07/26/83	0	2	
PAIS0019	No	34241	BENZIDINE WET WGTTISMG/KG	07/26/83-07/26/83	0	2	
PAIS0019	No	34246	BENZO(K)FLUORANTHENE, WET WT, TISSUE MG/KG	07/26/83-07/26/83	0	2	
PAIS0019	No	34251	BENZO-A-PYRENE WET WGTTISMG/KG	07/26/83-07/26/83	0	2	
PAIS0019	No	34258	B-BHC-BETA WET WGTTISMG/KG	07/26/83-07/26/83	0	2	
PAIS0019	No	34263	DELTA BENZENE HEXACHLORIDE WET WGTTISMG/KG	07/26/83-07/26/83	0	2	
PAIS0019	No	34277	BIS (2-CHLOROETHYL) ETHER WET WGTTISMG/KG	07/26/83-07/26/83	0	2	
PAIS0019	No	34282	BIS (2-CHLOROETHOXY) METHANE WET WGTTISMG/KG	07/26/83-07/26/83	0	2	
PAIS0019	No	34287	BIS (2-CHLOROISOPROPYL) ETHER WET WGTTISMG/KG	07/26/83-07/26/83	0	2	
PAIS0019	No	34324	CHRYSENE WET WGTTISMG/KG	07/26/83-07/26/83	0	2	
PAIS0019	No	34340	DIETHYL PHTHALATE WET WGTTISMG/KG	07/26/83-07/26/83	0	2	
PAIS0019	No	34345	DIMETHYL PHTHALATE WET WGTTISMG/KG	07/26/83-07/26/83	0	2	
PAIS0019	No	34350	1,2-DIPHENYLHYDRAZINE WET WGTTISMG/KG	07/26/83-07/26/83	0	2	
PAIS0182	No	34354	ENDOSULFAN SULFATE DRY WGTBOTUG/KG	08/08/89-08/08/89	0	1	
PAIS0019	No	34355	ENDOSULFAN SULFATE WET WGTTISMG/KG	07/26/83-07/26/83	0	2	
PAIS0019	No	34360	ENDOSULFAN, BETA WET WGTTISMG/KG	07/26/83-07/26/83	0	2	
PAIS0019	No	34370	ENDRIN ALDEHYDE WET WGTTISMG/KG	07/26/83-07/26/83	0	2	
PAIS0019	No	34380	FLUORANTHENE WET WGTTISMG/KG	07/26/83-07/26/83	0	2	
PAIS0019	No	34385	FLUORENE WET WGTTISMG/KG	07/26/83-07/26/83	0	2	
PAIS0019	No	34390	HEXACHLOROCYCLOPENTADIENE WET WGTTISMG/KG	07/26/83-07/26/83	0	2	
PAIS0019	No	34400	HEXACHLOROETHANE WET WGTTISMG/KG	07/26/83-07/26/83	0	2	
PAIS0019	No	34407	INDENO (1,2,3-CD) PYRENE WET WGTTISMG/KG	07/26/83-07/26/83	0	2	
PAIS0019	No	34412	ISOPHORONE WET WGTTISMG/KG	07/26/83-07/26/83	0	2	
PAIS0019	No	34432	N-NITROSODI-N-PROPYLAMINE WET WGTTISMG/KG	07/26/83-07/26/83	0	2	
PAIS0019	No	34437	N-NITROSODIPHENYLAMINE WET WGTTISMG/KG	07/26/83-07/26/83	0	2	
PAIS0019	No	34442	N-NITROSODIMETHYLAMINE WET WGTTISMG/KG	07/26/83-07/26/83	0	2	
PAIS0019	No	34446	NAPHTHALENE WET WGTTISMG/KG	07/26/83-07/26/83	0	2	
PAIS0019	No	34451	NITROBENZENE WET WGTTISMG/KG	07/26/83-07/26/83	0	2	
PAIS0019	No	34465	PHENANTHRENE WET WGTTISMG/KG	07/26/83-07/26/83	0	2	
PAIS0019	No	34473	PYRENE WET WGTTISMG/KG	07/26/83-07/26/83	0	2	
PAIS0019	No	34530	BENZO(A)ANTHRACENE1,2-BENZANTHRACENWET WGTTISMG/KG	07/26/83-07/26/83	0	2	
PAIS0019	No	34540	1,2-DICHLOROBENZENE WET WGTTISMG/KG	07/26/83-07/26/83	0	2	
PAIS0019	No	34555	1,2,4-TRICHLOROBENZENE WET WGTTISMG/KG	07/26/83-07/26/83	0	2	
PAIS0019	No	34570	1,3-DICHLOROBENZENE WET WGTTISMG/KG	07/26/83-07/26/83	0	2	
PAIS0019	No	34575	1,4-DICHLOROBENZENE WET WGTTISMG/KG	07/26/83-07/26/83	0	2	
PAIS0019	No	34585	2-CHLORONAPHTHALENE WET WGTTISMG/KG	07/26/83-07/26/83	0	2	
PAIS0019	No	34595	2-NITROPHENOL WET WGTTISMG/KG	07/26/83-07/26/83	0	2	
PAIS0019	No	34600	DI-N-OCTYL PHTHALATE WET WGTTISMG/KG	07/26/83-07/26/83	0	2	
PAIS0019	No	34605	2,4-DICHLOROPHENOL WET WGTTISMG/KG	07/26/83-07/26/83	0	2	
PAIS0019	No	34610	2,4-DIMETHYLPHENOL WET WGTTISMG/KG	07/26/83-07/26/83	0	2	
PAIS0019	No	34615	2,4-DINITROTOLUENE WET WGTTISMG/KG	07/26/83-07/26/83	0	2	
PAIS0019	No	34620	2,4-DINITROPHENOL WET WGTTISMG/KG	07/26/83-07/26/83	0	2	
PAIS0019	No	34625	2,4,6-TRICHLOROPHENOL WET WGTTISMG/KG	07/26/83-07/26/83	0	2	
PAIS0019	No	34630	2,6-DINITROTOLUENE WET WGTTISMG/KG	07/26/83-07/26/83	0	2	
PAIS0019	No	34635	3,3'-DICHLOROBENZIDINE WET WGTTISMG/KG	07/26/83-07/26/83	0	2	
PAIS0019	No	34640	4-BROMOPHENYL PHENYL ETHER WET WGTTISMG/KG	07/26/83-07/26/83	0	2	
PAIS0019	No	34645	4-CHLOROPHENYL PHENYL ETHER WET WGTTISMG/KG	07/26/83-07/26/83	0	2	
PAIS0019	No	34650	4-NITROPHENOL WET WGTTISMG/KG	07/26/83-07/26/83	0	2	
PAIS0019	No	34680	ALDRIN IN FISH TISSUE WET WEIGHT MG/KG	07/26/83-07/26/83	0	2	
PAIS0182	No	34680	ALDRIN IN FISH TISSUE WET WEIGHT MG/KG	05/27/86-08/08/89	3	5	
PAIS0019	No	34682	CHLORDANE(TECH MIX & METABS),TISSUEWET WGTT,MG/KG	07/26/83-07/26/83	0	2	
PAIS0182	No	34682	CHLORDANE(TECH MIX & METABS),TISSUEWET WGTT,MG/KG	05/27/86-08/08/89	3	5	
PAIS0019	No	34683	DI-N-BUTYL PHTHALATE,TISSUE,WET WGTWET WGT	07/26/83-07/26/83	0	2	
PAIS0019	No	34685	ENDRIN WET WGTTISMG/KG	07/26/83-07/26/83	0	2	
PAIS0182	No	34685	ENDRIN WET WGTTISMG/KG	05/27/86-08/08/89	3	5	
PAIS0019	No	34686	HEPTACHLOR EPOXIDE WET WGTTISMG/KG	07/26/83-07/26/83	0	2	
PAIS0182	No	34686	HEPTACHLOR EPOXIDE WET WGTTISMG/KG	05/27/86-08/08/89	3	5	
PAIS0019	No	34687	HEPTACHLOR WET WGTTISMG/KG	07/26/83-07/26/83	0	2	
PAIS0182	No	34687	HEPTACHLOR WET WGTTISMG/KG	05/27/86-08/08/89	3	5	
PAIS0019	No	34688	HEXACHLOROBENZENE WET WGTTISMG/KG	07/26/83-07/26/83	0	2	
PAIS0182	No	34688	HEXACHLOROBENZENE WET WGTTISMG/KG	05/27/86-08/08/89	3	5	
PAIS0019	No	34691	TOXAPHENE WET WGTTISMG/KG	07/26/83-07/26/83	0	2	
PAIS0182	No	34691	TOXAPHENE WET WGTTISMG/KG	05/27/86-08/08/89	3	5	
PAIS0019	No	39060	PCP (PENTACHLOROPHENOL) IN TISSUE WET WGT UG/G	07/26/83-07/26/83	0	2	
PAIS0182	No	39061	PCP (PENTACHLOROPHENOL) IN BOT DEPOS DRY SOL UG/KG	07/01/85-08/08/89	4	5	
PAIS0019	No	39063	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	07/26/83-07/26/83	0	2	
PAIS0182	No	39063	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	05/27/86-04/26/88	1	3	
PAIS0182	No	39064	CHLORDANE-CIS ISOMER BOTTOM DEPOS (UG/KG DRY SOL	07/01/85-04/26/88	2	4	
PAIS0019	No	39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	07/26/83-07/26/83	0	2	
PAIS0182	No	39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	05/27/86-04/26/88	1	3	
PAIS0182	No	39067	CHLORDANE-TRANS ISOMER,BOTTOM DEPOS(UG/KG DRY SL	07/01/85-04/26/88	2	4	

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

Station/Parameter Period of Record Tabulation
From 05/01/41 To 09/23/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
PAIS0019	No	39072	CHLORDANE-NONACHLOR,TRANS ISO,TISSUE,WET WT,UG/G	07/26/83-07/26/83	0	2	
PAIS0182	No	39072	CHLORDANE-NONACHLOR,TRANS ISO,TISSUE,WET WT,UG/G	05/27/86-04/26/88	1	3	
PAIS0182	No	39073	CHLORDANE-NONACHLOR,TRANS ISO,BOTTOM DEP UG/KG	07/01/85-04/26/88	2	4	
PAIS0019	No	39074	BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	07/26/83-07/26/83	0	2	
PAIS0182	No	39074	BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	05/27/86-04/26/88	1	3	
PAIS0019	No	39075	BHC- GAMMA ISOMER, TISSUE WET WGT (UG/G)	07/26/83-07/26/83	0	2	
PAIS0182	No	39075	BHC- GAMMA ISOMER, TISSUE WET WGT (UG/G)	05/27/86-08/08/89	3	5	
PAIS0182	No	39076	BHC-ALPHA ISOMER, BOTTOM DEPOS (UG/KG DRY SOL)	07/01/85-04/26/88	2	4	
PAIS0019	No	39099	BIS(2-ETHYLHEXYL)PHTHALATE,TISSUE,WET WGT,MG/KG	07/26/83-07/26/83	0	2	
PAIS0182	No	39301	P,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	07/01/85-05/07/87	1	3	
PAIS0019	No	39302	P P DDT IN TISSUE WET WGT (UG/G)	07/26/83-07/26/83	0	2	
PAIS0182	No	39302	P P DDT IN TISSUE WET WGT (UG/G)	05/27/86-04/26/88	1	3	
PAIS0182	No	39306	O,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	07/01/85-04/26/88	2	4	
PAIS0019	No	39307	O P DDT IN TISSUE WET WGT (UG/G)	07/26/83-07/26/83	0	2	
PAIS0182	No	39307	O P DDT IN TISSUE WET WGT (UG/G)	05/27/86-04/26/88	1	3	
PAIS0182	No	39311	P,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	07/01/85-04/26/88	2	4	
PAIS0019	No	39312	P P DDD IN TISSUE WET WGT (UG/G)	07/26/83-07/26/83	0	2	
PAIS0182	No	39312	P P DDD IN TISSUE WET WGT (UG/G)	05/27/86-04/26/88	1	3	
PAIS0182	No	39316	O,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	07/01/85-05/07/87	1	3	
PAIS0182	No	39321	P,P' DDE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	07/01/85-04/26/88	2	4	
PAIS0019	No	39322	P,P'-DDE IN TISSUE WET WGT MG/KG	07/26/83-07/26/83	0	2	
PAIS0182	No	39322	P,P'-DDE IN TISSUE WET WGT MG/KG	05/27/86-04/26/88	1	3	
PAIS0019	No	39325	O,P DDD IN TISSUE WET WGT (UG/G)	07/26/83-07/26/83	0	2	
PAIS0182	No	39325	O,P DDD IN TISSUE WET WGT (UG/G)	05/27/86-04/26/88	1	3	
PAIS0182	No	39328	O,P'DDE IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	07/01/85-04/26/88	2	4	
PAIS0019	No	39329	O,P DDE IN TISSUE, WET WGT(UG/G)	07/26/83-07/26/83	0	2	
PAIS0182	No	39329	O,P DDE IN TISSUE, WET WGT(UG/G)	05/27/86-04/26/88	1	3	
PAIS0023	No	39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	09/27/72-09/27/72	0	1	
PAIS0081	No	39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	0	1	
PAIS0082	No	39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	0	1	
PAIS0096	No	39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	09/15/69-09/15/69	0	1	
PAIS0098	No	39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	09/15/69-09/15/69	0	1	
PAIS0119	Yes	39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	0	1	
PAIS0121	No	39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	09/28/72-10/17/73	1	2	
PAIS0096	No	39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	09/15/69-09/15/69	0	1	
PAIS0119	Yes	39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/23/74-10/23/74	0	1	
PAIS0121	No	39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/17/73-10/17/73	0	1	
PAIS0181	No	39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	04/09/75-04/26/76	1	2	
PAIS0182	No	39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	04/09/75-08/08/89	14	14	
PAIS0023	No	39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	09/27/72-09/27/72	0	1	
PAIS0081	No	39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	10/23/74-10/23/74	0	1	
PAIS0082	No	39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	10/23/74-10/23/74	0	1	
PAIS0119	Yes	39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	10/23/74-10/23/74	0	1	
PAIS0121	No	39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	09/28/72-10/17/73	1	2	
PAIS0096	No	39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	09/15/69-09/15/69	0	1	
PAIS0119	Yes	39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	10/23/74-10/23/74	0	1	
PAIS0121	No	39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	10/17/73-10/17/73	0	1	
PAIS0023	No	39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	09/27/72-09/27/72	0	1	
PAIS0081	No	39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	10/23/74-10/23/74	0	1	
PAIS0082	No	39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	10/23/74-10/23/74	0	1	
PAIS0119	Yes	39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	10/23/74-10/23/74	0	1	
PAIS0121	No	39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	09/28/72-10/17/73	1	2	
PAIS0119	Yes	39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	10/23/74-10/23/74	0	1	
PAIS0121	No	39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	10/17/73-10/17/73	0	1	
PAIS0181	No	39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	04/09/75-04/26/76	1	2	
PAIS0182	No	39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	04/09/75-08/08/89	14	14	
PAIS0023	No	39360	DDD IN WHOLE WATER SAMPLE (UG/L)	09/27/72-09/27/72	0	1	
PAIS0081	No	39360	DDD IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	0	1	
PAIS0082	No	39360	DDD IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	0	1	
PAIS0096	No	39360	DDD IN WHOLE WATER SAMPLE (UG/L)	09/15/69-09/15/69	0	1	
PAIS0098	No	39360	DDD IN WHOLE WATER SAMPLE (UG/L)	09/15/69-09/15/69	0	1	
PAIS0119	Yes	39360	DDD IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	0	1	
PAIS0121	No	39360	DDD IN WHOLE WATER SAMPLE (UG/L)	09/28/72-10/17/73	1	2	
PAIS0096	No	39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	09/15/69-09/15/69	0	1	
PAIS0119	Yes	39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/23/74-10/23/74	0	1	
PAIS0121	No	39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/17/73-10/17/73	0	1	
PAIS0181	No	39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	04/09/75-04/26/76	1	2	
PAIS0182	No	39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	04/09/75-08/08/89	14	13	
PAIS0023	No	39365	DDE IN WHOLE WATER SAMPLE (UG/L)	09/27/72-09/27/72	0	1	
PAIS0081	No	39365	DDE IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	0	1	
PAIS0082	No	39365	DDE IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	0	1	
PAIS0096	No	39365	DDE IN WHOLE WATER SAMPLE (UG/L)	09/15/69-09/15/69	0	1	

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

Station/Parameter Period of Record Tabulation
From 05/01/41 To 09/23/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
PAIS0098	No	39365	DDE IN WHOLE WATER SAMPLE (UG/L)	09/15/69-09/15/69	0	1	
PAIS0119	Yes	39365	DDE IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	0	1	
PAIS0121	No	39365	DDE IN WHOLE WATER SAMPLE (UG/L)	09/28/72-10/17/73	1	2	
PAIS0096	No	39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	09/15/69-09/15/69	0	1	
PAIS0119	Yes	39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/23/74-10/23/74	0	1	
PAIS0121	No	39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/17/73-10/17/73	0	1	
PAIS0181	No	39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	04/09/75-04/26/76	1	2	
PAIS0182	No	39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	04/09/75-08/08/89	14	14	
PAIS0023	No	39370	DDT IN WHOLE WATER SAMPLE (UG/L)	09/27/72-09/27/72	0	1	
PAIS0081	No	39370	DDT IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	0	1	
PAIS0082	No	39370	DDT IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	0	1	
PAIS0096	No	39370	DDT IN WHOLE WATER SAMPLE (UG/L)	09/15/69-09/15/69	0	1	
PAIS0098	No	39370	DDT IN WHOLE WATER SAMPLE (UG/L)	09/15/69-09/15/69	0	1	
PAIS0119	Yes	39370	DDT IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	0	1	
PAIS0121	No	39370	DDT IN WHOLE WATER SAMPLE (UG/L)	09/28/72-10/17/73	1	2	
PAIS0096	No	39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	09/15/69-09/15/69	0	1	
PAIS0119	Yes	39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/23/74-10/23/74	0	1	
PAIS0121	No	39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/17/73-10/17/73	0	1	
PAIS0181	No	39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	04/09/75-04/26/76	1	2	
PAIS0182	No	39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	04/09/75-08/08/89	14	15	
PAIS0019	No	39376	DDT SUM ANALOGS INTISSUE WET WGT BASIS	07/26/83-07/26/83	0	2	
PAIS0182	No	39376	DDT SUM ANALOGS INTISSUE WET WGT BASIS	08/06/87-08/08/89	2	4	
PAIS0023	No	39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	09/27/72-09/27/72	0	1	
PAIS0081	No	39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	0	1	
PAIS0082	No	39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	0	1	
PAIS0096	No	39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	09/15/69-09/15/69	0	1	
PAIS0098	No	39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	09/15/69-09/15/69	0	1	
PAIS0119	Yes	39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	0	1	
PAIS0121	No	39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	09/28/72-10/17/73	1	2	
PAIS0096	No	39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	09/15/69-09/15/69	0	1	
PAIS0119	Yes	39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	10/23/74-10/23/74	0	1	
PAIS0121	No	39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	10/17/73-10/17/73	0	1	
PAIS0181	No	39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	04/09/75-04/26/76	1	2	
PAIS0182	No	39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	04/09/75-08/08/89	14	14	
PAIS0023	No	39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	09/27/72-09/27/72	0	1	
PAIS0081	No	39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	0	1	
PAIS0082	No	39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	0	1	
PAIS0096	No	39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	09/15/69-09/15/69	0	1	
PAIS0098	No	39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	09/15/69-09/15/69	0	1	
PAIS0119	Yes	39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	0	1	
PAIS0121	No	39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	09/28/72-10/17/73	1	2	
PAIS0096	No	39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	09/15/69-09/15/69	0	1	
PAIS0119	Yes	39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/23/74-10/23/74	0	1	
PAIS0121	No	39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/17/73-10/17/73	0	1	
PAIS0181	No	39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	04/09/75-04/26/76	1	2	
PAIS0182	No	39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	04/09/75-08/08/89	14	14	
PAIS0022	No	39399	ETHION IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	10/30/75-10/30/75	0	1	
PAIS0081	No	39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	0	1	
PAIS0082	No	39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	0	1	
PAIS0119	Yes	39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	0	1	
PAIS0119	Yes	39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	10/23/74-10/23/74	0	1	
PAIS0181	No	39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	04/09/75-04/26/76	1	2	
PAIS0182	No	39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	04/09/75-08/08/89	14	14	
PAIS0019	No	39406	DIELDRIN IN AQ ORGANISMS WT WGT BASIS (UG/G)	07/26/83-07/26/83	0	2	
PAIS0182	No	39406	DIELDRIN IN AQ ORGANISMS WT WGT BASIS (UG/G)	05/27/86-08/08/89	3	5	
PAIS0023	No	39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	09/27/72-09/27/72	0	1	
PAIS0081	No	39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	0	1	
PAIS0082	No	39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	0	1	
PAIS0096	No	39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	09/15/69-09/15/69	0	1	
PAIS0098	No	39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	09/15/69-09/15/69	0	1	
PAIS0119	Yes	39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	0	1	
PAIS0121	No	39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	09/28/72-10/17/73	1	2	
PAIS0096	No	39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	09/15/69-09/15/69	0	1	
PAIS0119	Yes	39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	10/23/74-10/23/74	0	1	
PAIS0121	No	39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	10/17/73-10/17/73	0	1	
PAIS0181	No	39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	04/09/75-04/26/76	1	2	
PAIS0182	No	39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	04/09/75-08/08/89	14	14	
PAIS0023	No	39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	09/27/72-09/27/72	0	1	
PAIS0081	No	39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	0	1	
PAIS0082	No	39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	0	1	
PAIS0096	No	39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	09/15/69-09/15/69	0	1	
PAIS0098	No	39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	09/15/69-09/15/69	0	1	

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

Station/Parameter Period of Record Tabulation
From 05/01/41 To 09/23/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
PAIS0119	Yes	39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	0	1	
PAIS0121	No	39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	09/28/72-10/17/73	1	2	
PAIS0096	No	39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	09/15/69-09/15/69	0	1	
PAIS0119	Yes	39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	10/23/74-10/23/74	0	1	
PAIS0121	No	39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	10/17/73-10/17/73	0	1	
PAIS0181	No	39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	04/09/75-04/26/76	1	2	
PAIS0182	No	39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	04/09/75-08/08/89	14	14	
PAIS0181	No	39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	04/09/75-04/26/76	1	2	
PAIS0182	No	39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	04/09/75-08/08/89	14	14	
PAIS0019	No	39515	PCBS (MG/KG) FISH TISSUE MG/KG	07/26/83-07/26/83	0	2	
PAIS0182	No	39515	PCBS (MG/KG) FISH TISSUE MG/KG	05/27/86-08/08/89	3	5	
PAIS0023	No	39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	09/27/72-09/27/72	0	1	
PAIS0081	No	39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	0	1	
PAIS0082	No	39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	0	1	
PAIS0119	Yes	39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	0	1	
PAIS0121	No	39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	09/28/72-10/17/73	1	2	
PAIS0119	Yes	39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	10/23/74-10/23/74	0	1	
PAIS0121	No	39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	10/17/73-10/17/73	0	1	
PAIS0182	No	39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	04/09/75-08/08/89	14	14	
PAIS0023	No	39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	09/27/72-09/27/72	0	1	
PAIS0081	No	39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	0	1	
PAIS0082	No	39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	0	1	
PAIS0119	Yes	39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	0	1	
PAIS0121	No	39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	09/28/72-10/17/73	1	2	
PAIS0022	No	39531	MALATHION IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/30/75-10/30/75	0	1	
PAIS0119	Yes	39531	MALATHION IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/23/74-10/23/74	0	1	
PAIS0182	No	39531	MALATHION IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	04/09/75-08/08/89	14	6	
PAIS0023	No	39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	09/27/72-09/27/72	0	1	
PAIS0081	No	39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	0	1	
PAIS0082	No	39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	0	1	
PAIS0119	Yes	39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	0	1	
PAIS0121	No	39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	09/28/72-10/17/73	1	2	
PAIS0119	Yes	39541	PARATHION IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/23/74-10/23/74	0	1	
PAIS0181	No	39541	PARATHION IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	04/09/75-04/26/76	1	2	
PAIS0182	No	39541	PARATHION IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	04/09/75-08/08/89	14	14	
PAIS0023	No	39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	09/27/72-09/27/72	0	1	
PAIS0081	No	39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	0	1	
PAIS0082	No	39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	0	1	
PAIS0119	Yes	39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	0	1	
PAIS0121	No	39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	09/28/72-10/17/73	1	2	
PAIS0022	No	39571	DIAZINON IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/30/75-10/30/75	0	1	
PAIS0119	Yes	39571	DIAZINON IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/23/74-10/23/74	0	1	
PAIS0181	No	39571	DIAZINON IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	04/09/75-04/26/76	1	2	
PAIS0182	No	39571	DIAZINON IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	04/09/75-08/08/89	14	14	
PAIS0023	No	39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	09/27/72-09/27/72	0	1	
PAIS0081	No	39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	0	1	
PAIS0082	No	39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	0	1	
PAIS0119	Yes	39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	0	1	
PAIS0121	No	39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	09/28/72-10/17/73	1	2	
PAIS0022	No	39601	METHYL PARATHION IN BOT. DEPOS.(UG/KG DRY SOLIDS)	10/30/75-10/30/75	0	1	
PAIS0119	Yes	39601	METHYL PARATHION IN BOT. DEPOS.(UG/KG DRY SOLIDS)	10/23/74-10/23/74	0	1	
PAIS0181	No	39601	METHYL PARATHION IN BOT. DEPOS.(UG/KG DRY SOLIDS)	04/09/75-04/26/76	1	2	
PAIS0182	No	39601	METHYL PARATHION IN BOT. DEPOS.(UG/KG DRY SOLIDS)	04/09/75-04/26/88	13	13	
PAIS0182	No	39701	HEXACHLOROBENZENE IN BOT DEPOS (UG/KG DRY SOLIDS)	07/01/85-08/08/89	4	5	
PAIS0019	No	39704	HEXACHLOROBUTADIENE IN FISH OR ANIMAL WET WGT UG/K	07/26/83-07/26/83	0	2	
PAIS0022	No	39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/30/75	1	2	
PAIS0023	No	39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	09/27/72-09/27/72	0	1	
PAIS0049	No	39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	0	1	
PAIS0081	No	39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	0	1	
PAIS0082	No	39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	0	1	
PAIS0096	No	39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	09/15/69-09/15/69	0	1	
PAIS0098	No	39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	09/15/69-09/15/69	0	1	
PAIS0119	Yes	39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	0	1	
PAIS0121	No	39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	09/28/72-10/17/73	1	2	
PAIS0119	Yes	39731	2,4-D IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	10/23/74-10/23/74	0	1	
PAIS0182	No	39731	2,4-D IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	07/01/85-08/08/89	4	5	
PAIS0022	No	39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/30/75	1	2	
PAIS0023	No	39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	09/27/72-09/27/72	0	1	
PAIS0049	No	39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	0	1	
PAIS0081	No	39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	0	1	
PAIS0082	No	39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	0	1	
PAIS0096	No	39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	09/15/69-09/15/69	0	1	

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

Station/Parameter Period of Record Tabulation
From 05/01/41 To 09/23/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
PAIS0098	No	39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	09/15/69-09/15/69	0	1	
PAIS0119	Yes	39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	0	1	
PAIS0121	No	39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	09/28/72-10/17/73	1	2	
PAIS0119	Yes	39741	2,4,5-T IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	10/23/74-10/23/74	0	1	
PAIS0182	No	39741	2,4,5-T IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	07/01/85-08/08/89	4	5	
PAIS0022	No	39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/30/75	1	2	
PAIS0023	No	39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	09/27/72-09/27/72	0	1	
PAIS0049	No	39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	0	1	
PAIS0081	No	39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	0	1	
PAIS0082	No	39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	0	1	
PAIS0096	No	39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	09/15/69-09/15/69	0	1	
PAIS0098	No	39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	09/15/69-09/15/69	0	1	
PAIS0119	Yes	39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	0	1	
PAIS0121	No	39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	09/28/72-10/17/73	1	2	
PAIS0119	Yes	39761	SILVEX IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	10/23/74-10/23/74	0	1	
PAIS0181	No	39761	SILVEX IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	04/09/75-04/26/76	1	2	
PAIS0182	No	39761	SILVEX IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	04/09/75-04/26/88	13	7	
PAIS0096	No	39782	LINDANE IN WHOLE WATER SAMPLE (UG/L)	09/15/69-09/15/69	0	1	
PAIS0098	No	39782	LINDANE IN WHOLE WATER SAMPLE (UG/L)	09/15/69-09/15/69	0	1	
PAIS0121	No	39782	LINDANE IN WHOLE WATER SAMPLE (UG/L)	09/28/72-09/28/72	0	1	
PAIS0181	No	39783	LINDANE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	04/09/75-04/26/76	1	2	
PAIS0182	No	39783	LINDANE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	04/09/75-08/08/89	14	14	
PAIS0022	No	39791	METHYL TRITHION IN BOT DEPOS (UG/KG DRY SOLIDS)	10/30/75-10/30/75	0	1	
PAIS0007	No	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	08/20/68-08/20/68	0	1	
PAIS0011	No	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	08/20/68-08/20/68	0	1	
PAIS0013	No	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	09/11/69-09/11/69	0	1	
PAIS0048	No	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	08/23/68-08/23/68	0	2	
PAIS0051	No	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	09/11/69-09/11/69	0	2	
PAIS0064	No	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	08/26/68-08/26/68	0	1	
PAIS0085	No	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	09/16/69-09/16/69	0	1	
PAIS0098	No	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	09/15/69-09/15/69	0	1	
PAIS0118	No	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	08/27/68-08/27/68	0	1	
PAIS0209	No	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	08/28/68-09/16/69	1	3	
PAIS0153	Yes	50787	PHOSPHATE, TOTAL AS P, WATER MG/L	05/20/78-05/20/78	0	1	
PAIS0154	Yes	50787	PHOSPHATE, TOTAL AS P, WATER MG/L	05/20/78-05/20/78	0	1	
PAIS0155	Yes	50787	PHOSPHATE, TOTAL AS P, WATER MG/L	05/20/78-05/20/78	0	1	
PAIS0157	Yes	50787	PHOSPHATE, TOTAL AS P, WATER MG/L	05/20/78-05/20/78	0	1	
PAIS0158	Yes	50787	PHOSPHATE, TOTAL AS P, WATER MG/L	05/20/78-05/20/78	0	1	
PAIS0159	Yes	50787	PHOSPHATE, TOTAL AS P, WATER MG/L	05/20/78-05/20/78	0	1	
PAIS0161	Yes	50787	PHOSPHATE, TOTAL AS P, WATER MG/L	05/20/78-05/20/78	0	1	
PAIS0058	No	61215	FECAL COLIFORM, GENERAL #/100ML	10/01/85-10/01/85	0	3	
PAIS0019	No	70211	TIDE, HIGH OR LOW,BEFORE OR AFTER,HOUR,MINUTE	09/11/73-12/04/74	1	4	
PAIS0044	No	70211	TIDE, HIGH OR LOW,BEFORE OR AFTER,HOUR,MINUTE	09/11/73-12/04/74	1	5	
PAIS0045	No	70211	TIDE, HIGH OR LOW,BEFORE OR AFTER,HOUR,MINUTE	09/11/73-12/04/74	1	3	
PAIS0100	No	70211	TIDE, HIGH OR LOW,BEFORE OR AFTER,HOUR,MINUTE	10/23/73-10/02/74	0	4	
PAIS0181	No	70211	TIDE, HIGH OR LOW,BEFORE OR AFTER,HOUR,MINUTE	04/09/74-07/17/74	0	2	
PAIS0182	No	70211	TIDE, HIGH OR LOW,BEFORE OR AFTER,HOUR,MINUTE	10/23/73-10/02/74	0	4	
PAIS0058	No	70294	RESIDUE,TOTAL DISS,UNSPEC CALC BASED ON COND MG/L	10/01/85-10/01/85	0	3	
PAIS0045	No	70295	RESIDUE,TOTAL FILTRABLE (DRIED AT ANY TEMP),MG/L	09/13/72-06/06/78	5	53	
PAIS0099	No	70295	RESIDUE,TOTAL FILTRABLE (DRIED AT ANY TEMP),MG/L	04/10/73-06/06/78	5	39	
PAIS0181	No	70295	RESIDUE,TOTAL FILTRABLE (DRIED AT ANY TEMP),MG/L	10/23/73-06/06/78	4	43	
PAIS0254	No	70295	RESIDUE,TOTAL FILTRABLE (DRIED AT ANY TEMP),MG/L	01/06/75-06/06/78	3	30	
PAIS0018	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	02/06/78-08/30/94	16	7	
PAIS0019	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	02/06/78-05/15/96	18	14	
PAIS0044	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	02/06/78-04/21/94	16	8	
PAIS0100	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/07/77-07/25/96	18	14	
PAIS0151	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	07/21/98-07/21/98	0	1	
PAIS0153	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	05/20/78-05/20/78	0	1	
PAIS0154	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	05/20/78-05/20/78	0	1	
PAIS0155	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	05/20/78-05/20/78	0	1	
PAIS0157	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	05/20/78-05/20/78	0	1	
PAIS0158	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	05/20/78-05/20/78	0	1	
PAIS0159	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	05/20/78-05/20/78	0	1	
PAIS0161	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	05/20/78-05/20/78	0	1	
PAIS0165	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/08/98-04/08/98	0	1	
PAIS0182	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/07/77-07/29/96	18	16	
PAIS0255	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/07/77-07/16/96	18	16	
PAIS0007	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/20/68-08/20/68	0	1	
PAIS0011	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/20/68-08/20/68	0	1	
PAIS0012	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/20/68-08/25/76	8	4	
PAIS0013	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/11/69-10/07/70	1	2	
PAIS0016	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/11/69-10/07/70	1	2	

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

Station/Parameter Period of Record Tabulation
From 05/01/41 To 09/23/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
PAIS0022	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	06/27/78-06/27/78	0	1	
PAIS0023	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	02/01/77-03/29/82	5	9	
PAIS0048	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/23/68-08/23/68	0	2	
PAIS0049	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/23/68-06/04/75	6	9	
PAIS0050	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/11/69-08/26/76	6	6	
PAIS0051	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/11/69-10/07/70	1	3	
PAIS0063	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/26/68-08/26/68	0	1	
PAIS0064	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/26/68-08/26/68	0	1	
PAIS0081	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/16/69-03/30/82	12	18	
PAIS0082	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/16/69-02/05/75	5	5	
PAIS0085	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/16/69-09/16/69	0	1	
PAIS0096	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/15/69-06/27/78	8	2	
PAIS0098	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/15/69-09/15/69	0	1	
PAIS0118	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/27/68-08/27/68	0	1	
PAIS0119	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	06/22/77-03/30/82	4	8	
PAIS0121	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/27/68-02/01/77	8	3	
PAIS0209	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/28/68-09/16/69	1	3	
PAIS0210	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/28/68-09/16/69	1	3	
PAIS0012	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/20/68-08/25/76	8	4	
PAIS0016	Yes	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/11/69-10/07/70	1	2	
PAIS0022	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	06/27/78-06/27/78	0	1	
PAIS0023	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	02/01/77-03/29/82	5	9	
PAIS0049	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/23/68-06/04/75	6	10	
PAIS0050	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/11/69-08/26/76	6	6	
PAIS0063	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/26/68-08/26/68	0	1	
PAIS0081	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/16/69-03/30/82	12	18	
PAIS0082	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/16/69-02/05/75	5	5	
PAIS0096	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/15/69-06/27/78	8	2	
PAIS0119	Yes	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	06/22/77-03/30/82	4	8	
PAIS0121	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/27/68-02/01/77	8	3	
PAIS0210	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/28/68-09/16/69	1	3	
PAIS0181	No	70322	SOLIDS, VOLATILE, PERCENT OF TOTAL SOLIDS	10/23/73-07/06/77	3	3	
PAIS0099	No	70505	PHOSPHATE,TOTAL,COLORIMETRIC METHOD (MG/L AS P)	04/09/75-07/07/75	0	2	
PAIS0181	No	70505	PHOSPHATE,TOTAL,COLORIMETRIC METHOD (MG/L AS P)	04/09/75-07/07/75	0	2	
PAIS0254	No	70505	PHOSPHATE,TOTAL,COLORIMETRIC METHOD (MG/L AS P)	07/07/75-07/07/75	0	1	
PAIS0100	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	04/09/75-07/07/75	0	2	
PAIS0182	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	04/09/75-07/07/75	0	2	
PAIS0255	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/07/75-07/07/75	0	1	
PAIS0153	Yes	70961	PRODUCTIVITY, PRIMARY, GROSS (MGC/CU M/DAY)	08/18/78-08/18/78	0	1	
PAIS0158	Yes	70961	PRODUCTIVITY, PRIMARY, GROSS (MGC/CU M/DAY)	08/18/78-08/18/78	0	1	
PAIS0173	Yes	70961	PRODUCTIVITY, PRIMARY, GROSS (MGC/CU M/DAY)	08/18/78-08/18/78	0	1	
PAIS0007	No	71820	DENSITY (GM/ML AT 20 C)	08/20/68-08/20/68	0	1	
PAIS0011	No	71820	DENSITY (GM/ML AT 20 C)	08/20/68-08/20/68	0	1	
PAIS0048	No	71820	DENSITY (GM/ML AT 20 C)	08/23/68-08/23/68	0	2	
PAIS0064	No	71820	DENSITY (GM/ML AT 20 C)	08/26/68-08/26/68	0	1	
PAIS0118	No	71820	DENSITY (GM/ML AT 20 C)	08/27/68-08/27/68	0	1	
PAIS0209	No	71820	DENSITY (GM/ML AT 20 C)	08/28/68-08/28/68	0	2	
PAIS0007	No	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	08/20/68-08/20/68	0	2	
PAIS0011	No	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	08/20/68-08/20/68	0	2	
PAIS0020	No	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	04/11/79-07/16/80	1	4	
PAIS0022	No	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	04/10/79-04/11/79	0	4	
PAIS0023	No	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	04/11/79-11/18/80	1	4	
PAIS0025	No	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	08/22/68-08/22/68	0	2	
PAIS0048	No	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	08/23/68-08/23/68	0	2	
PAIS0055	No	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	04/11/79-11/18/80	1	4	
PAIS0061	No	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	08/26/68-08/26/68	0	1	
PAIS0064	No	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	08/26/68-08/26/68	0	2	
PAIS0081	No	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	04/11/79-11/18/80	1	8	
PAIS0098	No	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	08/27/68-08/27/68	0	2	
PAIS0118	No	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	08/27/68-08/27/68	0	2	
PAIS0119	Yes	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	04/11/79-11/18/80	1	4	
PAIS0209	No	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	08/28/68-08/28/68	0	2	
PAIS0219	No	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	04/11/79-04/12/79	0	4	
PAIS0007	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/20/68-08/20/68	0	2	
PAIS0011	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/20/68-08/20/68	0	2	
PAIS0025	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/22/68-08/22/68	0	2	
PAIS0048	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/23/68-08/23/68	0	2	
PAIS0061	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/26/68-08/26/68	0	1	
PAIS0064	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/26/68-08/26/68	0	2	
PAIS0098	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/27/68-08/27/68	0	2	
PAIS0118	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/27/68-08/27/68	0	2	
PAIS0209	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/28/68-08/28/68	0	2	

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

Station/Parameter Period of Record Tabulation
From 05/01/41 To 09/23/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
PAIS0007	No	71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	08/20/68-08/20/68	0	2	
PAIS0011	No	71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	08/20/68-08/20/68	0	2	
PAIS0025	No	71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	08/22/68-08/22/68	0	2	
PAIS0048	No	71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	08/23/68-08/23/68	0	2	
PAIS0061	No	71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	08/26/68-08/26/68	0	1	
PAIS0064	No	71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	08/26/68-08/26/68	0	2	
PAIS0098	No	71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	08/27/68-08/27/68	0	2	
PAIS0118	No	71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	08/27/68-08/27/68	0	2	
PAIS0209	No	71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	08/28/68-08/28/68	0	2	
PAIS0013	No	71865	IODIDE (MG/L AS I)	09/11/69-09/11/69	0	1	
PAIS0016	Yes	71865	IODIDE (MG/L AS I)	09/11/69-10/07/70	1	2	
PAIS0049	No	71865	IODIDE (MG/L AS I)	09/27/72-05/23/73	0	2	
PAIS0050	No	71865	IODIDE (MG/L AS I)	09/11/69-10/07/70	1	3	
PAIS0051	No	71865	IODIDE (MG/L AS I)	09/11/69-09/11/69	0	2	
PAIS0081	No	71865	IODIDE (MG/L AS I)	09/16/69-09/16/69	0	1	
PAIS0082	No	71865	IODIDE (MG/L AS I)	09/16/69-09/16/69	0	1	
PAIS0085	No	71865	IODIDE (MG/L AS I)	09/16/69-09/16/69	0	1	
PAIS0096	No	71865	IODIDE (MG/L AS I)	09/15/69-09/15/69	0	1	
PAIS0098	No	71865	IODIDE (MG/L AS I)	09/15/69-09/15/69	0	1	
PAIS0209	No	71865	IODIDE (MG/L AS I)	09/16/69-09/16/69	0	1	
PAIS0210	No	71865	IODIDE (MG/L AS I)	09/16/69-09/16/69	0	1	
PAIS0013	No	71870	BROMIDE (MG/L AS BR)	09/11/69-09/11/69	0	1	
PAIS0016	Yes	71870	BROMIDE (MG/L AS BR)	09/11/69-10/07/70	1	2	
PAIS0049	No	71870	BROMIDE (MG/L AS BR)	09/27/72-05/23/73	0	2	
PAIS0050	No	71870	BROMIDE (MG/L AS BR)	09/11/69-10/07/70	1	3	
PAIS0051	No	71870	BROMIDE (MG/L AS BR)	09/11/69-09/11/69	0	2	
PAIS0081	No	71870	BROMIDE (MG/L AS BR)	09/16/69-09/16/69	0	1	
PAIS0082	No	71870	BROMIDE (MG/L AS BR)	09/16/69-09/16/69	0	1	
PAIS0085	No	71870	BROMIDE (MG/L AS BR)	09/16/69-09/16/69	0	1	
PAIS0096	No	71870	BROMIDE (MG/L AS BR)	09/15/69-09/15/69	0	1	
PAIS0098	No	71870	BROMIDE (MG/L AS BR)	09/15/69-09/15/69	0	1	
PAIS0209	No	71870	BROMIDE (MG/L AS BR)	09/16/69-09/16/69	0	1	
PAIS0210	No	71870	BROMIDE (MG/L AS BR)	09/16/69-09/16/69	0	1	
PAIS0252	No	71875	HYDROGEN SULFIDE (MG/L)	01/15/73-01/15/73	0	1	
PAIS0253	No	71875	HYDROGEN SULFIDE (MG/L)	01/15/73-01/15/73	0	1	
PAIS0256	No	71875	HYDROGEN SULFIDE (MG/L)	01/15/73-01/15/73	0	1	
PAIS0257	No	71875	HYDROGEN SULFIDE (MG/L)	01/15/73-01/15/73	0	1	
PAIS0020	No	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	04/11/79-12/15/81	2	6	
PAIS0022	No	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	04/10/79-04/11/79	0	4	
PAIS0023	No	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	04/11/79-12/15/81	2	6	
PAIS0055	No	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	04/11/79-12/15/81	2	6	
PAIS0081	No	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	04/11/79-03/30/82	2	13	
PAIS0119	Yes	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	04/11/79-12/15/81	2	6	
PAIS0219	No	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	04/11/79-04/12/79	0	4	
PAIS0012	No	71887	NITROGEN, TOTAL, AS NO3 - MG/L	04/23/74-02/10/76	1	5	
PAIS0020	No	71887	NITROGEN, TOTAL, AS NO3 - MG/L	04/11/79-07/16/80	1	4	
PAIS0022	No	71887	NITROGEN, TOTAL, AS NO3 - MG/L	04/23/74-04/11/79	4	13	
PAIS0023	No	71887	NITROGEN, TOTAL, AS NO3 - MG/L	02/01/77-03/29/82	5	9	
PAIS0034	No	71887	NITROGEN, TOTAL, AS NO3 - MG/L	06/27/78-06/27/78	0	2	
PAIS0049	No	71887	NITROGEN, TOTAL, AS NO3 - MG/L	04/24/74-06/27/78	4	4	
PAIS0050	No	71887	NITROGEN, TOTAL, AS NO3 - MG/L	10/30/75-02/11/76	0	4	
PAIS0055	No	71887	NITROGEN, TOTAL, AS NO3 - MG/L	02/01/77-03/24/81	4	8	
PAIS0077	No	71887	NITROGEN, TOTAL, AS NO3 - MG/L	06/27/78-06/27/78	0	2	
PAIS0081	No	71887	NITROGEN, TOTAL, AS NO3 - MG/L	04/24/74-03/24/81	6	21	
PAIS0082	No	71887	NITROGEN, TOTAL, AS NO3 - MG/L	04/24/74-10/23/74	0	2	
PAIS0096	No	71887	NITROGEN, TOTAL, AS NO3 - MG/L	06/27/78-06/27/78	0	2	
PAIS0119	Yes	71887	NITROGEN, TOTAL, AS NO3 - MG/L	10/23/74-03/30/82	7	11	
PAIS0121	No	71887	NITROGEN, TOTAL, AS NO3 - MG/L	04/24/74-06/22/77	3	5	
PAIS0219	No	71887	NITROGEN, TOTAL, AS NO3 - MG/L	06/27/78-04/12/79	0	5	
PAIS0022	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	10/23/74-10/30/75	1	2	
PAIS0049	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	10/23/74-10/23/74	0	1	
PAIS0081	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	10/23/74-10/23/74	0	1	
PAIS0082	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	10/23/74-10/23/74	0	1	
PAIS0119	Yes	71890	MERCURY, DISSOLVED (UG/L AS HG)	10/23/74-10/23/74	0	1	
PAIS0121	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	10/17/73-10/17/73	0	1	
PAIS0136	Yes	71890	MERCURY, DISSOLVED (UG/L AS HG)	09/15/89-09/15/89	0	1	
PAIS0152	Yes	71890	MERCURY, DISSOLVED (UG/L AS HG)	09/15/89-09/15/89	0	1	
PAIS0172	Yes	71890	MERCURY, DISSOLVED (UG/L AS HG)	09/15/89-09/15/89	0	1	
PAIS0018	No	71900	MERCURY, TOTAL (UG/L AS HG)	10/07/70-10/07/70	0	1	
PAIS0019	No	71900	MERCURY, TOTAL (UG/L AS HG)	10/07/70-10/07/70	0	1	
PAIS0049	No	71900	MERCURY, TOTAL (UG/L AS HG)	10/23/74-10/23/74	0	1	
PAIS0100	No	71900	MERCURY, TOTAL (UG/L AS HG)	08/03/83-08/03/83	0	1	

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

Station/Parameter Period of Record Tabulation
From 05/01/41 To 09/23/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
PAIS0103	No	71900	MERCURY, TOTAL (UG/L AS HG)	09/30/70-09/30/74	4	2	
PAIS0104	No	71900	MERCURY, TOTAL (UG/L AS HG)	09/30/70-09/30/74	4	2	
PAIS0119	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	10/23/74-10/23/74	0	1	
PAIS0182	No	71900	MERCURY, TOTAL (UG/L AS HG)	07/17/74-08/03/83	9	2	
PAIS0255	No	71900	MERCURY, TOTAL (UG/L AS HG)	08/03/83-08/03/83	0	1	
PAIS0019	No	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	10/13/83-10/13/83	0	1	
PAIS0022	No	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	10/30/75-10/30/75	0	1	
PAIS0103	No	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	09/30/74-09/30/74	0	1	
PAIS0104	No	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	09/30/74-09/30/74	0	1	
PAIS0182	No	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	10/23/73-08/08/89	15	15	
PAIS0019	No	71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	07/26/83-07/26/83	0	2	
PAIS0041	No	71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	05/22/78-05/22/78	0	1	
PAIS0094	No	71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	07/07/77-07/07/77	0	2	
PAIS0128	Yes	71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	07/07/77-07/07/77	0	1	
PAIS0160	Yes	71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	06/01/78-06/01/78	0	11	
PAIS0182	No	71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	05/27/86-08/08/89	3	6	
PAIS0251	No	71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	04/19/78-04/19/78	0	5	
PAIS0019	No	71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	07/26/83-07/26/83	0	2	
PAIS0182	No	71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	05/27/86-08/08/89	3	6	
PAIS0019	No	71937	COPPER,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	07/26/83-07/26/83	0	2	
PAIS0182	No	71937	COPPER,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	05/27/86-08/08/89	3	6	
PAIS0019	No	71939	CHROMIUM,TOT IN FISH OR ANIMALS-WET WEIGHT BASIS	07/26/83-07/26/83	0	2	
PAIS0182	No	71939	CHROMIUM,TOT IN FISH OR ANIMALS-WET WEIGHT BASIS	05/27/86-08/08/89	3	6	
PAIS0019	No	71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	07/26/83-07/26/83	0	2	
PAIS0182	No	71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	05/27/86-08/08/89	3	6	
PAIS0018	No	72053	DAYS SINCE PRECIPITATION EVENT DAYS	05/15/91-05/27/93	2	4	
PAIS0019	No	72053	DAYS SINCE PRECIPITATION EVENT DAYS	05/15/91-06/21/95	4	3	
PAIS0044	No	72053	DAYS SINCE PRECIPITATION EVENT DAYS	05/15/91-04/21/94	2	4	
PAIS0100	No	72053	DAYS SINCE PRECIPITATION EVENT DAYS	10/12/89-07/25/96	6	26	
PAIS0175	No	72053	DAYS SINCE PRECIPITATION EVENT DAYS	11/18/93-09/27/94	0	20	
PAIS0182	No	72053	DAYS SINCE PRECIPITATION EVENT DAYS	10/12/89-07/29/96	6	39	
PAIS0255	No	72053	DAYS SINCE PRECIPITATION EVENT DAYS	10/12/89-07/16/96	6	25	
PAIS0019	No	78877	DIPHENYLAMINE IN TISSUE, WET WEIGHT MG/KG	07/26/83-07/26/83	0	2	
PAIS0019	No	79035	CHLOROPHENOL TISWETWTMG/KG	07/26/83-07/26/83	0	2	
PAIS0019	No	79036	4-CHLORO-3-CRESOL TISWETWTMG/KG	07/26/83-07/26/83	0	2	
PAIS0019	No	79037	2,6-DINITRO-2-CRESOL TISWETWTMG/KG	07/26/83-07/26/83	0	2	
PAIS0019	No	79038	BUTYLBENZYL PHTHALATE TISWETWTMG/KG	07/26/83-07/26/83	0	2	
PAIS0019	No	79039	BENZO(J)FLUORANTHENE TISWETWTMG/KG	07/26/83-07/26/83	0	2	
PAIS0019	No	79040	DIBENZ(A,H)ANTHRACENE TISWETWTMG/KG	07/26/83-07/26/83	0	2	
PAIS0019	No	79041	BENZO(GHI)PERYLENE TISWETWTMG/KG	07/26/83-07/26/83	0	2	
PAIS0181	No	80106	PHOSPHORUS IN PARTICULATES (MG/KG DRY WT)	10/23/73-01/08/75	1	2	
PAIS0019	No	81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	07/26/83-07/26/83	0	2	
PAIS0041	No	81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	05/22/78-05/22/78	0	1	
PAIS0042	No	81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	05/17/77-05/17/77	0	1	
PAIS0047	No	81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	05/17/77-05/17/77	0	1	
PAIS0093	Yes	81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	05/17/77-05/17/77	0	2	
PAIS0094	No	81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	07/07/77-07/07/77	0	2	
PAIS0128	Yes	81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	07/07/77-07/07/77	0	1	
PAIS0160	Yes	81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	06/01/78-06/01/78	0	2	
PAIS0182	No	81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	05/27/86-08/08/89	3	6	
PAIS0251	No	81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	04/19/78-04/19/78	0	5	
PAIS0019	No	81615	NUMBER OF DIFFERENT SPECIES IN THE SAMPLE	07/26/83-07/26/83	0	2	
PAIS0182	No	81615	NUMBER OF DIFFERENT SPECIES IN THE SAMPLE	05/27/86-08/08/89	3	6	
PAIS0001	No	81637	SHELLFISH SPECIES NUMERIC CODE	03/23/78-03/23/78	0	4	
PAIS0002	No	81637	SHELLFISH SPECIES NUMERIC CODE	03/22/78-03/22/78	0	4	
PAIS0042	No	81637	SHELLFISH SPECIES NUMERIC CODE	05/17/77-05/17/77	0	1	
PAIS0047	No	81637	SHELLFISH SPECIES NUMERIC CODE	05/17/77-05/17/77	0	1	
PAIS0093	Yes	81637	SHELLFISH SPECIES NUMERIC CODE	05/17/77-05/17/77	0	2	
PAIS0019	No	81644	METHOXYCHLOR IN FISH TISSUE,UG/G WET WEIGHT	07/26/83-07/26/83	0	2	
PAIS0182	No	81644	METHOXYCHLOR IN FISH TISSUE,UG/G WET WEIGHT	05/27/86-08/08/89	3	5	
PAIS0042	No	81744	CADMIUM IN SHELLFISH TISSUE WET WEIGHT PPM(MG/KG)	05/17/77-05/17/77	0	1	
PAIS0093	Yes	81744	CADMIUM IN SHELLFISH TISSUE WET WEIGHT PPM(MG/KG)	05/17/77-05/17/77	0	2	
PAIS0042	No	81746	COPPER IN SHELLFISH TISSUE WET WEIGHT PPM(MG/KG)	05/17/77-05/17/77	0	1	
PAIS0093	Yes	81746	COPPER IN SHELLFISH TISSUE WET WEIGHT PPM(MG/KG)	05/17/77-05/17/77	0	2	
PAIS0042	No	81748	LEAD IN SHELLFISH TISSUE WET WEIGHT PPM(MG/KG)	05/17/77-05/17/77	0	1	
PAIS0093	Yes	81748	LEAD IN SHELLFISH TISSUE WET WEIGHT PPM(MG/KG)	05/17/77-05/17/77	0	2	
PAIS0042	No	81749	ZINC IN SHELLFISH TISSUE WET WEIGHT PPM(MG/KG)	05/17/77-05/17/77	0	1	
PAIS0093	Yes	81749	ZINC IN SHELLFISH TISSUE WET WEIGHT PPM(MG/KG)	05/17/77-05/17/77	0	2	
PAIS0001	No	81770	MERCURY IN SHELLFISH TISSUE,WET WEIGHT,(PPM)MG/KG	03/23/78-03/23/78	0	4	
PAIS0002	No	81770	MERCURY IN SHELLFISH TISSUE,WET WEIGHT,(PPM)MG/KG	03/22/78-03/22/78	0	4	
PAIS0042	No	81770	MERCURY IN SHELLFISH TISSUE,WET WEIGHT,(PPM)MG/KG	05/17/77-05/17/77	0	1	
PAIS0093	Yes	81770	MERCURY IN SHELLFISH TISSUE,WET WEIGHT,(PPM)MG/KG	05/17/77-05/17/77	0	2	

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

Station/Parameter Period of Record Tabulation
From 05/01/41 To 09/23/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
PAIS0019	No	81896	DDE TOTAL IN TISSUE WET WEIGHT MG/KG	07/26/83-07/26/83	0	2	
PAIS0182	No	81896	DDE TOTAL IN TISSUE WET WEIGHT MG/KG	05/27/86-08/08/89	3	5	
PAIS0019	No	81897	DDD TOTAL IN TISSUE WET WEIGHT MG/KG	07/26/83-07/26/83	0	2	
PAIS0182	No	81897	DDD TOTAL IN TISSUE WET WEIGHT MG/KG	05/27/86-08/08/89	3	5	
PAIS0023	No	82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	03/24/81-03/24/81	0	1	
PAIS0081	No	82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	03/24/81-03/24/81	0	1	
PAIS0119	Yes	82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	03/24/81-03/24/81	0	1	
PAIS0252	No	82537	TURBIDITY,FORWARD SCATTER JTU	01/15/73-08/15/74	1	5	
PAIS0253	No	82537	TURBIDITY,FORWARD SCATTER JTU	01/15/73-08/15/74	1	5	
PAIS0256	No	82537	TURBIDITY,FORWARD SCATTER JTU	01/15/73-08/15/74	1	5	
PAIS0257	No	82537	TURBIDITY,FORWARD SCATTER JTU	01/15/73-08/15/74	1	3	
PAIS0004	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	08/22/68-08/22/68	0	1	
PAIS0010	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	06/03/75-06/03/75	0	1	
PAIS0016	Yes	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	10/22/74-10/22/74	0	1	
PAIS0023	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	03/29/82-03/29/82	0	1	
PAIS0028	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	03/29/82-03/29/82	0	1	
PAIS0030	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	06/04/75-06/04/75	0	1	
PAIS0032	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	06/04/75-06/04/75	0	1	
PAIS0050	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	08/26/76-08/26/76	0	1	
PAIS0063	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	06/04/75-06/04/75	0	1	
PAIS0076	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	03/30/82-03/30/82	0	1	
PAIS0082	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	08/26/76-08/26/76	0	1	
PAIS0096	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	06/27/78-06/27/78	0	1	
PAIS0119	Yes	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	03/30/82-03/30/82	0	1	
PAIS0146	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	06/04/75-06/04/75	0	1	
PAIS0210	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	03/30/82-03/30/82	0	1	
PAIS0219	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	03/30/82-03/30/82	0	1	
PAIS0004	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	08/22/68-08/22/68	0	1	
PAIS0010	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	06/03/75-06/03/75	0	1	
PAIS0016	Yes	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	10/22/74-10/22/74	0	1	
PAIS0023	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	03/29/82-03/29/82	0	1	
PAIS0028	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	03/29/82-03/29/82	0	1	
PAIS0030	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	06/04/75-06/04/75	0	1	
PAIS0032	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	06/04/75-06/04/75	0	1	
PAIS0050	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	08/26/76-08/26/76	0	1	
PAIS0063	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	06/04/75-06/04/75	0	1	
PAIS0076	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	03/30/82-03/30/82	0	1	
PAIS0082	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	08/26/76-08/26/76	0	1	
PAIS0096	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	06/27/78-06/27/78	0	1	
PAIS0119	Yes	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	03/30/82-03/30/82	0	1	
PAIS0146	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	06/04/75-06/04/75	0	1	
PAIS0210	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	03/30/82-03/30/82	0	1	
PAIS0219	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	03/30/82-03/30/82	0	1	
PAIS0001	No	84007	ANATOMY ALPHA CODE	03/23/78-03/23/78	0	4	
PAIS0002	No	84007	ANATOMY ALPHA CODE	03/22/78-03/22/78	0	4	
PAIS0041	No	84007	ANATOMY ALPHA CODE	05/22/78-05/22/78	0	1	
PAIS0042	No	84007	ANATOMY ALPHA CODE	05/17/77-05/17/77	0	1	
PAIS0047	No	84007	ANATOMY ALPHA CODE	05/17/77-05/17/77	0	1	
PAIS0093	Yes	84007	ANATOMY ALPHA CODE	05/17/77-05/17/77	0	2	
PAIS0094	No	84007	ANATOMY ALPHA CODE	07/07/77-07/07/77	0	2	
PAIS0128	Yes	84007	ANATOMY ALPHA CODE	07/07/77-07/07/77	0	1	
PAIS0160	Yes	84007	ANATOMY ALPHA CODE	06/01/78-06/01/78	0	11	
PAIS0251	No	84007	ANATOMY ALPHA CODE	04/19/78-04/19/78	0	5	
PAIS0001	No	84008	LIFE STYLE/HABITAT OF THEINDIVIDUALS IN THE SAMPLE	03/23/78-03/23/78	0	4	
PAIS0002	No	84008	LIFE STYLE/HABITAT OF THEINDIVIDUALS IN THE SAMPLE	03/22/78-03/22/78	0	4	
PAIS0041	No	84008	LIFE STYLE/HABITAT OF THEINDIVIDUALS IN THE SAMPLE	05/22/78-05/22/78	0	1	
PAIS0042	No	84008	LIFE STYLE/HABITAT OF THEINDIVIDUALS IN THE SAMPLE	05/17/77-05/17/77	0	1	
PAIS0047	No	84008	LIFE STYLE/HABITAT OF THEINDIVIDUALS IN THE SAMPLE	05/17/77-05/17/77	0	1	
PAIS0093	Yes	84008	LIFE STYLE/HABITAT OF THEINDIVIDUALS IN THE SAMPLE	05/17/77-05/17/77	0	2	
PAIS0094	No	84008	LIFE STYLE/HABITAT OF THEINDIVIDUALS IN THE SAMPLE	07/07/77-07/07/77	0	2	
PAIS0128	Yes	84008	LIFE STYLE/HABITAT OF THEINDIVIDUALS IN THE SAMPLE	07/07/77-07/07/77	0	1	
PAIS0160	Yes	84008	LIFE STYLE/HABITAT OF THEINDIVIDUALS IN THE SAMPLE	06/01/78-06/01/78	0	11	
PAIS0251	No	84008	LIFE STYLE/HABITAT OF THEINDIVIDUALS IN THE SAMPLE	04/19/78-04/19/78	0	5	
PAIS0001	No	84009	SHELLFISH SPECIES ALPHANUMERIC CODE	03/23/78-03/23/78	0	4	
PAIS0002	No	84009	SHELLFISH SPECIES ALPHANUMERIC CODE	03/22/78-03/22/78	0	4	
PAIS0042	No	84009	SHELLFISH SPECIES ALPHANUMERIC CODE	05/17/77-05/17/77	0	1	
PAIS0047	No	84009	SHELLFISH SPECIES ALPHANUMERIC CODE	05/17/77-05/17/77	0	1	
PAIS0093	Yes	84009	SHELLFISH SPECIES ALPHANUMERIC CODE	05/17/77-05/17/77	0	2	
PAIS0019	No	84100	SEX(1-MALE,2-FEMALE,3-MIXED,4-UNKNOWN) NUM CODE	07/26/83-07/26/83	0	2	
PAIS0182	No	84100	SEX(1-MALE,2-FEMALE,3-MIXED,4-UNKNOWN) NUM CODE	05/27/86-08/08/89	3	6	

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

Station-By-Station Results

Station Inventory for Station: PAIS0001

NPS Station ID: PAIS0001 LAT/LON: 26.500005/ -97.300004 Agency: 21TXDOH Date Created: 05/26/79
Location: LAGUNA MADRE SE OF PORT MANSFIELD FIPS State/County: 48489 TEXAS/WILLACY
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): LAG00510
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110208 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: RIO GRANDE LOWER BELOW PECOS RIVER ECO Region:
RF1 Index: 12110208 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208239300.00 RF3 Mile Point: 9.39 Distance from RF3: 0.03 On/Off RF3:
Description:
DATA FROM TEXAS STATE DEPARTMENT OF HEALTH FISH AND SHELLFISH SAMPLES ANALYZED FOR TOXICS SAMPLE TAKEN FROM
LAGUNA MADRE SOUTHEAST OF PORT MANSFIELD

Parameter Inventory for Station: PAIS0001

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	03/23/78-03/23/78	4	2262.5	2262.5	2264.	2261.	1.667	1.291	**	**	**	**
81770	MERCURY IN SHELLFISH TISSUE,WET WEIGHT,(PPM)MG/KG	03/23/78-03/23/78	4	0.12	0.133	0.22	0.073	0.004	0.064	**	**	**	**

** - Less than 9 observations ## - 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: PAIS0002

NPS Station ID: PAIS0002 LAT/LON: 26.500005/ -97.316670 Agency: 21TXDOH Date Created: 05/26/79
Location: LAGUNA MADRE SE OF PORT MANSFIELD FIPS State/County: 48489 TEXAS/WILLACY
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): LAG00509
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110208 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: RIO GRANDE LOWER BELOW PECOS RIVER ECO Region:
RF1 Index: 12110208 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110207000214.96 RF3 Mile Point: 15.68 Distance from RF3: 4.19 On/Off RF3:
Description:
DATA FROM TEXAS STATE DEPARTMENT OF HEALTH FISH AND SHELLFISH SAMPLES ANALYZED FOR TOXICS SAMPLE TAKEN FROM
LAGUNA MADRE SOUTHEAST OF PORT MANSFIELD

Parameter Inventory for Station: PAIS0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	03/22/78-03/22/78	4	2262.5	2262.5	2264.	2261.	1.667	1.291	**	**	**	**
81770	MERCURY IN SHELLFISH TISSUE,WET WEIGHT,(PPM)MG/KG	03/22/78-03/22/78	4	0.099	0.124	0.22	0.078	0.004	0.065	**	**	**	**

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

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

Station Inventory for Station: PAIS0003

NPS Station ID: PAIS0003 LAT/LON: 26.513142/ -97.377893 Agency: 11NPSWRD Date Created: 02/20/99
Location: LOWER LAGUNA MADRE TRANSECT 20 SITE 1 FIPS State/County: 48489 TEXAS/WILLACY
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): PAIS_TWDB_20-1
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110208 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110208 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PORT MANSFIELD TEXAS 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT TRANSECT 20 SITE 1 IN THE LOWER LAGUNA MADRE. DATA ARE FROM A SERIES OF YEARLY REPORTS (NUMBERS 117; 144; 171; AND 191) BY D. C. HAHL AND KARL W. RATZLAFF OF THE U.S. GEOLOGICAL SURVEY FOR THE TEXAS WATER DEVELOPMENT BOARD. THE REPORTS ARE TITLED "CHEMICAL AND PHYSICAL CHARACTERISTICS OF WATER IN ESTUARIES OF TEXAS SEPTEMBER 1967-SEPTEMBER 1968; OCTOBER 1968-SEPTEMBER 1969; OCTOBER 1969-SEPTEMBER 1970; AND OCTOBER 1970-SEPTEMBER 1971" AND WERE PUBLISHED IN MAY 1970; APRIL 1972; JUNE 1973; AND MAY 1975 RESPECTIVELY. THE PURPOSE OF THESE REPORTS WAS TO CREATE "A LONG-TERM RECORD OF THE CHEMICAL; PHYSICAL; AND HYDRAULIC CHARACTERISTICS OF THE TEXAS ESTUARINE SYSTEMS." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0003

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/22/68-08/22/68	2	2.	2.	3.	1.	2.	1.414	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/22/68-08/22/68	2	32.4	32.4	32.4	32.4	0.	0.	**	**	**	**
00078	TRANSPARENCY, SECCHI DISC (METERS)	08/22/68-08/22/68	1	0.91	0.91	0.91	0.91	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/22/68-08/22/68	2	61000.	61000.	61000.	61000.	0.	0.	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/22/68-08/22/68	2	8.05	8.05	8.4	7.7	0.245	0.495	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/22/68-08/22/68	2	144.	144.	150.	138.	72.	8.485	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	08/22/68-08/22/68	2	8.7	8.7	8.7	8.7	0.	0.	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	08/22/68-08/22/68	2	8.7	8.7	8.7	8.7	0.	0.	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/22/68-08/22/68	2	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: PAIS0003

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	5/01-10/31 Obs	5/01-10/31 Exceed	5/01-10/31 Prop.	11/01-4/30 Obs	11/01-4/30 Exceed	11/01-4/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	2	0	0.00	2	0	0.00									
00406	PH, FIELD	Marine Chronic	8.5	2	2	1.00	2	2	1.00									
		Other-Lo Lim.	6.5	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: PAIS0004

NPS Station ID: PAIS0004
LAT/LON: 26.520838/ -97.358616
Agency: 112WRD
Date Created: 11/07/81
Location: 1220301LAGUNA MADRE ES LINE 203 SITE 01
FIPS State/County: 48489 TEXAS/WILLACY
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): 263115097213100
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110208
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 12110208
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:

Parameter Inventory for Station: PAIS0004

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/22/68-08/22/68	2	2.	2.	3.	1.	2.	1.414	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/22/68-08/22/68	2	32.4	32.4	32.4	32.4	0.	0.	**	**	**	**
00078	TRANSPARENCY, SECCHI DISC (METERS)	08/22/68-08/22/68	1	0.91	0.91	0.91	0.91	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/22/68-08/22/68	2	61000.	61000.	61000.	61000.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	08/22/68-08/22/68	2	8.05	8.05	8.4	7.7	0.245	0.495	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/22/68-08/22/68	2	143.9	143.9	149.9	137.9	72.	8.485	**	**	**	**
00400	PH (STANDARD UNITS)	08/22/68-08/22/68	2	8.7	8.7	8.7	8.7	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/22/68-08/22/68	2	8.7	8.7	8.7	8.7	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/22/68-08/22/68	2	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: PAIS0004

						----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	2	0	0.00	2	0	0.00									
00400	PH	Marine Chronic	8.5	2	2	1.00	2	2	1.00									
		Other-Lo Lim.	6.5	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: PAIS0005

NPS Station ID: PAIS0005 LAT/LON: 26.540227/ -97.404559 Agency: 11NPSWRD Date Created: 04/17/99
Location: LIGHT 289 ON THE INTRACOASTAL WATERWAY FIPS State/County: 48489 TEXAS/WILLACY
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): PAIS_CONO_289
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110208 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110208 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PORT MANSFIELD TEXAS 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT LIGHT 289 ON THE INTRACOASTAL WATERWAY. DATA WERE COLLECTED ALONG A TRANSECT PERPENDICULAR TO THE WATERWAY AND AVERAGED FOR THE MONTH. DATA ARE FROM A REPORT BY JOHN T. CONOVER; "THE ECOLOGY; SEASONAL PERIODICITY; AND DISTRIBUTION OF BENTHIC PLANTS IN SOME TEXAS LAGOONS;" OCTOBER 1963. THE PURPOSE OF THIS REPORT WAS TO "STUDY THE LOCAL EFFECTS OF LIGHT; TEMPERATURE; AND SALINITY ON THE SEASONAL GROWTH OF PLANTS." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0005

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: PAIS0006

NPS Station ID: PAIS0006
LAT/LON: 26.555420/ -97.405865
Agency: 11NPSWRD
Date Created: 02/13/99
Location: LOWER LAGUNA MADRE STATION 22
FIPS State/County: 48489 TEXAS/WILLACY
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_BREU_22
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110208
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110208
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PORT MANSFIELD TEXAS-WILLACY COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 22 IN THE LOWER LAGUNA MADRE. DATA ARE FROM A REPORT BY JOSEPH P. BREUER; MARINE BIOLOGIST WITH THE TEXAS GAME AND FISH COMMISSION. THE REPORT IS TITLED "AN ECOLOGICAL SURVEY OF THE LOWER LAGUNA MADRE OF TEXAS; 1953-1959." THE PURPOSE OF THIS REPORT WAS TO PRESENT "HYDROGRAPHIC DATA AND ANNOTATED COMMENTS ON THE DISTRIBUTION AND HABITS OF SPECIES FOR THE LOWER LAGUNA MADRE OF TEXAS." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0006

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00480	SALINITY - PARTS PER THOUSAND	07/15/54-09/15/56	15	40.6	38.8	47.5	24.9	55.511	7.451	24.96	32.4	45.2	46.96

** - Less than 9 observations ## - 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: PAIS0007

NPS Station ID: PAIS0007 LAT/LON: 26.557587/ -97.424143 Agency: 11NPSWRD Date Created: 02/20/99
Location: LOWER LAGUNA MADRE TRANSECT 19 SITE 4 FIPS State/County: 48489 TEXAS/WILLACY
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): PAIS_TWDB_19-4
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110208 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110208 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PORT MANSFIELD TEXAS 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT TRANSECT 19 SITE 4 IN THE LOWER LAGUNA MADRE. DATA ARE FROM A SERIES OF YEARLY REPORTS (NUMBERS 117; 144; 171; AND 191) BY D. C. HAHL AND KARL W. RATZLAFF OF THE U.S. GEOLOGICAL SURVEY FOR THE TEXAS WATER DEVELOPMENT BOARD. THE REPORTS ARE TITLED "CHEMICAL AND PHYSICAL CHARACTERISTICS OF WATER IN ESTUARIES OF TEXAS SEPTEMBER 1967-SEPTEMBER 1968; OCTOBER 1968-SEPTEMBER 1969; OCTOBER 1969-SEPTEMBER 1970; AND OCTOBER 1970-SEPTEMBER 1971" AND WERE PUBLISHED IN MAY 1970; APRIL 1972; JUNE 1973; AND MAY 1975 RESPECTIVELY. THE PURPOSE OF THESE REPORTS WAS TO CREATE "A LONG-TERM RECORD OF THE CHEMICAL; PHYSICAL; AND HYDRAULIC CHARACTERISTICS OF THE TEXAS ESTUARINE SYSTEMS." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0007

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/20/68-10/07/70	15	10.	8.013	17.	0.2	33.488	5.787	0.68	1.	13.	16.4
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/20/68-10/07/70	15	28.9	28.547	31.	24.4	3.051	1.747	25.42	28.	29.7	30.82
00078	TRANSPARENCY, SECCHI DISC (METERS)	09/11/69-09/11/69	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/20/68-10/07/70	15	54000.	55200.	66000.	41000.	41885714.286	6471.917	44600.	53000.	61000.	64200.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/07/70-10/07/70	2	41650.	41650.	57000.	26300.	471245000.	21708.178	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/20/68-10/07/70	15	4.7	4.04	7.4	0.	7.298	2.702	0.	1.5	6.9	7.34
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/20/68-10/07/70	15	78.	65.133	121.	0.	1889.552	43.469	0.	26.	112.	118.6
00310	BOD, 5 DAY, 20 DEG C MG/L	08/20/68-10/07/70	6	2.	3.4	7.9	1.	7.752	2.784	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	08/20/68-10/07/70	15	8.3	8.24	8.5	7.6	0.078	0.28	7.66	8.1	8.4	8.5
00406	CONVERTED PH, FIELD, STANDARD UNITS	08/20/68-10/07/70	15	8.3	8.136	8.5	7.6	0.09	0.3	7.66	8.1	8.4	8.5
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/20/68-10/07/70	15	0.005	0.007	0.025	0.003	0.	0.007	0.003	0.004	0.008	0.022
00440	BICARBONATE ION (MG/L AS HCO3)	08/20/68-08/20/68	1	165.	165.	165.	165.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/07/70-10/07/70	2	0.45	0.45	0.88	0.02	0.37	0.608	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/07/70-10/07/70	2	0.06	0.06	0.06	0.06	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/11/69-10/07/70	4 ##	0.	0.025	0.1	0.	0.003	0.05	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	08/20/68-08/20/68	2	0.125	0.125	0.13	0.12	0.	0.007	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	08/20/68-08/20/68	2	0.06	0.06	0.07	0.05	0.	0.014	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/11/69-10/07/70	4	0.07	0.08	0.15	0.03	0.003	0.056	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/11/69-10/07/70	4	0.05	0.06	0.12	0.02	0.002	0.049	**	**	**	**

** - Less than 9 observations ## - 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: PAIS0007

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/20/68-08/20/68	1	6660.	6660.	6660.	6660.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/20/68-08/20/68	1	485.	485.	485.	485.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/20/68-08/20/68	1	1360.	1360.	1360.	1360.	0.	0.	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	08/20/68-08/20/68	1	13000.	13000.	13000.	13000.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/20/68-08/20/68	1	22500.	22500.	22500.	22500.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/20/68-08/20/68	1	3180.	3180.	3180.	3180.	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/20/68-10/07/70	5	5.3	4.98	8.6	2.1	6.177	2.485	**	**	**	**
46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	08/20/68-08/20/68	1	6800.	6800.	6800.	6800.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/20/68-08/20/68	1	41.	41.	41.	41.	0.	0.	**	**	**	**
71820	DENSITY (GM/ML AT 20 C)	08/20/68-08/20/68	1	1.027	1.027	1.027	1.027	0.	0.	**	**	**	**
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	08/20/68-08/20/68	2	0.3	0.3	0.4	0.2	0.02	0.141	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/20/68-08/20/68	2	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	08/20/68-08/20/68	2 ##	0.005	0.005	0.01	0.	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 time series plot

EPA Water Quality Criteria Analysis for Station: PAIS0007

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------5/01-10/31---------- Obs	Exceed	Prop.	----------11/01-4/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	12 &	3	0.25	12	3	0.25									
00406	PH, FIELD	Marine Chronic	8.5	15	3	0.20	15	3	0.20									
		Other-Lo Lim.	6.5	15	0	0.00	15	0	0.00									

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

Station Inventory for Station: PAIS0008

NPS Station ID: PAIS0008
LAT/LON: 26.558059/ -97.341392
Agency: 21TXWQB
Date Created: 06/28/97
Location: PORT MANSFIELD AT CHANNEL MARKER 25
FIPS State/County: 48489 TEXAS/WILLACY
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): 13281
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110207
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin: Bays and Estuaries
ECO Region: 34M
RF1 Index: 12110207
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
PORT MANSFIELD AT CHANNEL MARKER 25

Parameter Inventory for Station: PAIS0008

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/13/83-10/13/83	14	5.	6.714	15.	1.	24.835	4.983	1.	1.	10.	15.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/13/83-10/13/83	8	22.75	22.963	24.5	22.5	0.434	0.659	**	**	**	**
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	10/13/83-10/13/83	8	72.95	73.225	76.1	71.6	1.725	1.313	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/13/83-10/13/83	8	39950.	40050.	40900.	39400.	445714.286	667.618	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	10/13/83-10/13/83	8	7.4	7.488	8.3	6.9	0.256	0.506	**	**	**	**
00400	PH (STANDARD UNITS)	10/13/83-10/13/83	8	7.6	7.625	7.7	7.5	0.005	0.071	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/13/83-10/13/83	8	7.6	7.62	7.7	7.5	0.005	0.071	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/13/83-10/13/83	8	0.025	0.024	0.032	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: PAIS0008

				Total	Exceed	Prop.	----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------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.	8	0	0.00	8	0	0.00									
00400	PH	Marine Chronic	8.5	8	0	0.00	8	0	0.00									
		Other-Lo Lim.	6.5	8	0	0.00	8	0	0.00									

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

Station Inventory for Station: PAIS0009

NPS Station ID: PAIS0009 LAT/LON: 26.558226/ -97.406255 Agency: 11NPSWRD Date Created: 02/20/99
Location: LOWER LAGUNA MADRE TRANSECT 19 SITE 3 FIPS State/County: 48489 TEXAS/WILLACY
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): PAIS_TWDB_19-3
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110208 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110208 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PORT MANSFIELD TEXAS 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT TRANSECT 19 SITE 3 IN THE LOWER LAGUNA MADRE. DATA ARE FROM A SERIES OF YEARLY REPORTS (NUMBERS 117; 144; 171; AND 191) BY D. C. HAHL AND KARL W. RATZLAFF OF THE U.S. GEOLOGICAL SURVEY FOR THE TEXAS WATER DEVELOPMENT BOARD. THE REPORTS ARE TITLED "CHEMICAL AND PHYSICAL CHARACTERISTICS OF WATER IN ESTUARIES OF TEXAS SEPTEMBER 1967-SEPTEMBER 1968; OCTOBER 1968-SEPTEMBER 1969; OCTOBER 1969-SEPTEMBER 1970; AND OCTOBER 1970-SEPTEMBER 1971" AND WERE PUBLISHED IN MAY 1970; APRIL 1972; JUNE 1973; AND MAY 1975 RESPECTIVELY. THE PURPOSE OF THESE REPORTS WAS TO CREATE "A LONG-TERM RECORD OF THE CHEMICAL; PHYSICAL; AND HYDRAULIC CHARACTERISTICS OF THE TEXAS ESTUARINE SYSTEMS." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0009

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/20/68-10/07/70	15	5.	6.267	16.	1.	23.781	4.877	1.	1.	10.	15.4
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/20/68-10/07/70	15	29.2	29.087	31.	26.7	2.86	1.691	26.7	26.7	30.6	30.88
00078	TRANSPARENCY, SECCHI DISC (METERS)	08/20/68-09/11/69	2	0.955	0.955	1.83	0.08	1.531	1.237	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/20/68-10/07/70	15	59000.	57333.333	66000.	46000.	36380952.381	6031.662	46000.	53000.	63000.	64800.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/07/70-10/07/70	2	49550.	49550.	53700.	45400.	34445000.	5868.986	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/20/68-10/07/70	15	5.7	5.4	6.4	3.8	0.571	0.756	4.1	4.7	5.8	6.4
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/20/68-10/07/70	15	96.	89.333	105.	66.	137.381	11.721	70.2	80.	98.	102.
00310	BOD, 5 DAY, 20 DEG C MG/L	09/11/69-10/07/70	4	1.65	1.675	2.7	0.7	1.043	1.021	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	08/20/68-10/07/70	15	8.4	8.393	8.6	8.1	0.024	0.153	8.16	8.2	8.5	8.6
00406	CONVERTED PH, FIELD, STANDARD UNITS	08/20/68-10/07/70	15	8.4	8.367	8.6	8.1	0.024	0.156	8.16	8.2	8.5	8.6
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/20/68-10/07/70	15	0.004	0.004	0.008	0.003	0.	0.002	0.003	0.003	0.006	0.007
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/07/70-10/07/70	2	0.05	0.05	0.06	0.04	0.	0.014	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/07/70-10/07/70	2	0.075	0.075	0.09	0.06	0.	0.021	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/11/69-10/07/70	3 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/11/69-10/07/70	4	0.03	0.028	0.04	0.01	0.	0.013	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/11/69-10/07/70	4	0.02	0.018	0.03	0.	0.	0.013	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/11/69-10/07/70	4	3.6	3.075	3.8	1.3	1.436	1.198	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: PAIS0009

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------5/01-10/31---------- Obs	Exceed	Prop.	----------11/01-4/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	15	1	0.07	15	1	0.07									
00406	PH, FIELD	Marine Chronic	8.5	15	6	0.40	15	6	0.40									
		Other-Lo Lim.	6.5	15	0	0.00	15	0	0.00									

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

Station Inventory for Station: PAIS0010

NPS Station ID: PAIS0010
LAT/LON: 26.558615/ -97.405837
Agency: 112WRD
Date Created: 11/07/81
Location: 1219403LAGUNA MADRE ES LINE 194 SITE 03
FIPS State/County: 48489 TEXAS/WILLACY
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): 263331097242100
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110208
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 12110208
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110207176900.00
RF3 Mile Point: 0.00
Distance from RF3: 0.05
On/Off RF3:
Description:

Parameter Inventory for Station: PAIS0010

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/20/68-06/03/75	46	5.	7.348	17.	1.	26.765	5.174	1.	2.	10.	15.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/20/68-06/03/75	46	26.3	26.341	31.	19.6	7.767	2.787	22.61	25.275	27.7	30.53
00070	TURBIDITY, (JACKSON CANDLE UNITS)	09/27/72-02/04/75	15	20.	25.993	109.9	10.	599.515	24.485	10.	15.	30.	64.96
00078	TRANSPARENCY, SECCHI DISC (METERS)	08/20/68-06/03/75	9	0.74	0.894	1.83	0.48	0.192	0.438	0.48	0.635	1.115	1.83
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/20/68-06/03/75	46	48000.	49739.13	66000.	29000.	67397101.449	8209.574	39400.	46000.	53250.	60900.
00300	OXYGEN, DISSOLVED MG/L	08/20/68-06/03/75	43	5.9	6.544	12.6	3.8	3.677	1.918	4.82	5.5	6.8	9.52
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/20/68-06/03/75	43	93.	97.251	167.9	66.	475.343	21.802	74.6	83.	103.9	125.1
00310	BOD, 5 DAY, 20 DEG C MG/L	09/11/69-10/07/70	4	1.65	1.675	2.7	0.7	1.043	1.021	**	**	**	**
00400	PH (STANDARD UNITS)	08/20/68-02/04/75	42	8.2	8.326	9.3	7.9	0.093	0.304	7.93	8.1	8.525	8.7
00400	CONVERTED PH (STANDARD UNITS)	08/20/68-02/04/75	42	8.2	8.239	9.3	7.9	0.101	0.317	7.93	8.1	8.525	8.7
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/20/68-02/04/75	42	0.006	0.006	0.013	0.001	0.	0.003	0.002	0.003	0.008	0.012
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/11/69-10/07/70	4	0.02	0.025	0.06	0.	0.001	0.03	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	09/11/69-10/07/70	4	0.03	0.038	0.09	0.	0.002	0.045	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/11/69-10/07/70	4	0.	0.	0.	0.	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/11/69-10/07/70	4	0.06	0.053	0.09	0.	0.001	0.038	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/11/69-10/07/70	4	0.03	0.028	0.04	0.01	0.	0.013	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/11/69-10/07/70	4	0.02	0.018	0.03	0.	0.	0.013	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/11/69-10/07/70	4	3.6	3.075	3.8	1.3	1.436	1.198	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: PAIS0010

				Total	Exceed	Prop.	----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------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.	15	1	0.07	8	0	0.00	7	1	0.14						
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	43	1	0.02	39	1	0.03	4	0	0.00						
00400	PH	Marine Chronic	8.5	42	14	0.33	35	10	0.29	7	4	0.57						
		Other-Lo Lim.	6.5	42	0	0.00	35	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

Seasonal Analysis for Season #1: 5/01 to 10/31 - Station PAIS0010

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/20/68-06/03/75	39	5.	7.205	17.	1.	26.641	5.161	1.	2.	10.	15.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/20/68-06/03/75	39	26.7	27.072	31.	23.6	4.269	2.066	25.2	25.8	28.6	30.6
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/20/68-06/03/75	39	48000.	49897.436	66000.	29000.	79462887.989	8914.196	38000.	46000.	56000.	63000.
00300	OXYGEN, DISSOLVED MG/L	08/20/68-06/03/75	39	5.8	6.062	9.6	3.8	1.319	1.149	4.7	5.4	6.7	7.2
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/20/68-06/03/75	39	93.	91.877	125.9	66.	173.966	13.19	73.	82.	100.	107.9

** - 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

Seasonal Analysis for Season #2: 11/01 to 4/30 - Station PAIS0010

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/20/68-06/03/75	7	10.	8.143	15.	1.	31.143	5.581	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/20/68-06/03/75	7	20.3	22.271	25.4	19.6	8.426	2.903	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/20/68-06/03/75	7	48000.	48857.143	50000.	48000.	1142857.143	1069.045	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	08/20/68-06/03/75	4	11.5	11.25	12.6	9.4	2.217	1.489	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/20/68-06/03/75	4	153.4	149.65	167.9	123.9	414.917	20.37	**	**	**	**

** - 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: PAIS0011

NPS Station ID: PAIS0011 LAT/LON: 26.560559/ -97.354753 Agency: 11NPSWRD Date Created: 02/20/99
Location: LOWER LAGUNA MADRE TRANSECT 19 SITE 2 FIPS State/County: 48489 TEXAS/WILLACY
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): PAIS_TWDB_19-2
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110208 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110208 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH OF POTRERO LOPENO SE 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT TRANSECT 19 SITE 2 IN THE LOWER LAGUNA MADRE. DATA ARE FROM A SERIES OF YEARLY REPORTS (NUMBERS 117; 144; 171; AND 191) BY D. C. HAHL AND KARL W. RATZLAFF OF THE U.S. GEOLOGICAL SURVEY FOR THE TEXAS WATER DEVELOPMENT BOARD. THE REPORTS ARE TITLED "CHEMICAL AND PHYSICAL CHARACTERISTICS OF WATER IN ESTUARIES OF TEXAS SEPTEMBER 1967-SEPTEMBER 1968; OCTOBER 1968-SEPTEMBER 1969; OCTOBER 1969-SEPTEMBER 1970; AND OCTOBER 1970-SEPTEMBER 1971" AND WERE PUBLISHED IN MAY 1970; APRIL 1972; JUNE 1973; AND MAY 1975 RESPECTIVELY. THE PURPOSE OF THESE REPORTS WAS TO CREATE "A LONG-TERM RECORD OF THE CHEMICAL; PHYSICAL; AND HYDRAULIC CHARACTERISTICS OF THE TEXAS ESTUARINE SYSTEMS." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/20/68-10/07/70	12	7.5	7.917	19.	1.	35.174	5.931	1.	2.	11.5	18.1
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/20/68-10/07/70	12	28.55	28.633	30.4	26.7	1.915	1.384	26.82	27.2	30.25	30.37
00078	TRANSPARENCY, SECCHI DISC (METERS)	08/20/68-10/07/70	3	0.91	0.787	1.37	0.08	0.427	0.654	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/20/68-10/07/70	12	55000.	55250.	64000.	45000.	68931818.182	8302.519	45000.	47500.	64000.	64000.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/20/68-08/20/68	1	65000.	65000.	65000.	65000.	0.	0.	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/20/68-10/07/70	12	6.	6.025	7.3	5.	0.697	0.835	5.03	5.2	6.8	7.21
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/20/68-10/07/70	12	96.	97.583	126.	75.	362.629	19.043	75.6	78.	117.	124.5
00310	BOD, 5 DAY, 20 DEG C MG/L	08/20/68-08/20/68	2	0.45	0.45	0.5	0.4	0.005	0.071	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	08/20/68-10/07/70	12	8.3	8.3	8.5	8.1	0.029	0.171	8.1	8.1	8.5	8.5
00406	CONVERTED PH, FIELD, STANDARD UNITS	08/20/68-10/07/70	12	8.3	8.27	8.5	8.1	0.03	0.173	8.1	8.1	8.5	8.5
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/20/68-10/07/70	12	0.005	0.005	0.008	0.003	0.	0.002	0.003	0.003	0.008	0.008
00440	BICARBONATE ION (MG/L AS HCO3)	08/20/68-08/20/68	1	150.	150.	150.	150.	0.	0.	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	08/20/68-08/20/68	2	0.09	0.09	0.1	0.08	0.	0.014	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	08/20/68-08/20/68	2	0.035	0.035	0.04	0.03	0.	0.007	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/20/68-08/20/68	1	8030.	8030.	8030.	8030.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/20/68-08/20/68	1	502.	502.	502.	502.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/20/68-08/20/68	1	1680.	1680.	1680.	1680.	0.	0.	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	08/20/68-08/20/68	1	13700.	13700.	13700.	13700.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/20/68-08/20/68	1	24400.	24400.	24400.	24400.	0.	0.	**	**	**	**

** - Less than 9 observations ## - 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: PAIS0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00945	SULFATE, TOTAL (MG/L AS SO4)	08/20/68-08/20/68	1	3360.	3360.	3360.	3360.	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/20/68-08/20/68	1	1.6	1.6	1.6	1.6	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	08/20/68-08/20/68	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/20/68-08/20/68	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01082	STRONTIUM, TOTAL (UG/L AS SR)	08/20/68-08/20/68	2	9350.	9350.	9400.	9300.	5000.	70.711	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	08/20/68-08/20/68	2 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	08/20/68-08/20/68	2	195.	195.	210.	180.	450.	21.213	**	**	**	**
46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	08/20/68-08/20/68	1	8150.	8150.	8150.	8150.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/20/68-08/20/68	1	44.	44.	44.	44.	0.	0.	**	**	**	**
71820	DENSITY (GM/ML AT 20 C)	08/20/68-08/20/68	1	1.028	1.028	1.028	1.028	0.	0.	**	**	**	**
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	08/20/68-08/20/68	2	0.3	0.3	0.4	0.2	0.02	0.141	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/20/68-08/20/68	2	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	08/20/68-08/20/68	2 ##	0.005	0.005	0.01	0.	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 time series plot

EPA Water Quality Criteria Analysis for Station: PAIS0011

				Total	Exceed	Prop.	----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------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.	12	0	0.00	12	0	0.00									
00406	PH, FIELD	Marine Chronic	8.5	12	4	0.33	12	4	0.33									
		Other-Lo Lim.	6.5	12	0	0.00	12	0	0.00									
01090	ZINC, DISSOLVED	Marine Acute	95.	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: PAIS0012

NPS Station ID: PAIS0012
LAT/LON: 26.562226/ -97.334727
Agency: 112WRD
Date Created: 11/07/81
Location: 1219402LAGUNA MADRE ES LINE 194 SITE 02
FIPS State/County: 48489 TEXAS/WILLACY
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): 263344097200500
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110208
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 12110208
RF1 Mile Point: 0.000
Distance from RF1: 11.10
On/Off RF1:
RF3 Index: 12110207177100.00
RF3 Mile Point: 0.00
Distance from RF3: 0.05
On/Off RF3:
Description:

Parameter Inventory for Station: PAIS0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/20/68-08/25/76	44	6.5	8.136	27.	1.	41.33	6.429	1.	1.	11.75	17.5
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/20/68-08/25/76	44	26.1	25.502	30.4	18.4	11.186	3.345	19.	24.275	27.3	29.4
00070	TURBIDITY, (JACKSON CANDLE UNITS)	04/23/74-02/10/76	17	25.	25.294	75.	5.	279.596	16.721	5.	15.	32.5	47.
00078	TRANSPARENCY, SECCHI DISC (METERS)	08/20/68-08/25/76	10	0.805	0.851	1.37	0.36	0.088	0.297	0.388	0.648	1.085	1.355
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/20/68-08/25/76	44	48500.	49772.727	64000.	34000.	55156448.203	7426.739	40500.	48000.	52500.	63000.
00300	OXYGEN, DISSOLVED MG/L	08/20/68-08/25/76	41	6.	6.929	15.1	4.8	6.419	2.534	4.92	5.2	7.35	11.68
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/20/68-08/25/76	41	96.	101.134	193.9	67.	919.885	30.33	69.2	77.5	116.9	151.7
00310	BOD, 5 DAY, 20 DEG C MG/L	08/20/68-08/25/76	16	1.5	1.706	4.3	0.4	0.917	0.957	0.47	1.225	2.025	3.32
00400	PH (STANDARD UNITS)	08/20/68-08/25/76	44	8.3	8.332	8.9	7.9	0.062	0.249	8.	8.1	8.5	8.65
00400	CONVERTED PH (STANDARD UNITS)	08/20/68-08/25/76	44	8.3	8.268	8.9	7.9	0.066	0.257	8.	8.1	8.5	8.65
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/20/68-08/25/76	44	0.005	0.005	0.013	0.001	0.	0.003	0.002	0.003	0.008	0.01
00405	CARBON DIOXIDE (MG/L AS CO2)	08/20/68-08/25/76	4	1.2	0.975	1.2	0.3	0.202	0.45	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/20/68-08/25/76	4	126.5	133.25	157.	123.	261.583	16.174	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/20/68-08/25/76	4	154.	162.25	191.	150.	381.583	19.534	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	10/30/75-02/10/76	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00600	NITROGEN, TOTAL (MG/L AS N)	04/23/74-02/10/76	5	0.7	0.594	1.3	0.	0.339	0.582	**	**	**	**
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	04/23/74-02/10/76	5	0.61	0.556	1.299	0.	0.318	0.564	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/20/68-08/25/76	16	0.09	0.104	0.41	0.	0.011	0.107	0.	0.015	0.155	0.277
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/20/68-08/25/76	16	0.002	0.009	0.09	0.	0.	0.022	0.	0.	0.01	0.034
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/20/68-08/25/76	16	0.	0.016	0.1	0.	0.001	0.033	0.	0.	0.01	0.1
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/23/74-02/10/76	5	0.68	0.588	1.299	0.	0.336	0.58	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/23/74-02/10/76	5	0.01	0.008	0.02	0.	0.	0.008	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	08/20/68-10/30/73	8	0.06	0.056	0.12	0.	0.002	0.044	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/20/68-08/25/76	16	0.06	0.081	0.25	0.	0.005	0.073	0.	0.04	0.095	0.243
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/20/68-10/30/73	8	0.02	0.019	0.04	0.	0.	0.015	**	**	**	**
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	02/10/76-02/10/76	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	02/10/76-02/10/76	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/20/68-08/25/76	4	6300.	6175.	8200.	3900.	3129166.667	1768.945	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/20/68-08/25/76	4	6150.	6025.	8000.	3800.	3002500.	1732.772	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/20/68-08/25/76	4	465.	445.475	501.9	350.	4370.569	66.11	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/20/68-08/25/76	4	1250.	1280.	1680.	940.	94133.333	306.812	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/30/75-08/25/76	3	11000.	10300.	12000.	7900.	4570000.	2137.756	**	**	**	**
00931	SODIUM ADSORPTION RATIO	10/30/75-08/25/76	3	61.	60.333	65.	55.	25.333	5.033	**	**	**	**
00932	SODIUM, PERCENT	10/30/75-08/25/76	3	79.	79.	80.	78.	1.	1.	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	08/20/68-08/20/68	1	13700.	13700.	13700.	13700.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/30/75-08/25/76	3	420.	390.	440.	310.	4900.	70.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/20/68-08/25/76	4	20500.	19850.	24400.	14000.	20090000.	4482.187	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/20/68-08/25/76	4	2850.	2815.	3360.	2200.	227566.667	477.039	**	**	**	**

** - Less than 9 observations ## - 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: PAIS0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/30/75-08/25/76	3	1.6	1.667	1.8	1.6	0.013	0.115	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/20/68-08/25/76	12	1.55	2.208	5.9	0.5	2.79	1.67	0.56	1.	3.475	5.45
01045	IRON, TOTAL (UG/L AS FE)	08/20/68-08/20/68	2	0.	0.	0.	0.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/20/68-08/20/68	2	0.	0.	0.	0.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	08/20/68-08/20/68	2	9.	9.	9.	9.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	08/20/68-08/20/68	2	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	10/30/75-08/25/76	3	0.	1.	3.	0.	3.	1.732	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/20/68-08/25/76	4	37100.	35925.	43700.	25800.	58182500.	7627.745	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/20/68-08/25/76	4	49.745	48.395	59.4	34.69	112.619	10.612	**	**	**	**
71887	NITROGEN, TOTAL, AS NO3 - MG/L	04/23/74-02/10/76	5	3.1	2.64	5.8	0.	6.723	2.593	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: PAIS0012

				Total	Exceed	Prop.	----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------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.	17	1	0.06	7	1	0.14	10	0	0.00						
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	41	0	0.00	34	0	0.00	7	0	0.00						
00400	PH	Marine Chronic	8.5	44	12	0.27	34	12	0.35	10	0	0.00						
		Other-Lo Lim.	6.5	44	0	0.00	34	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

Seasonal Analysis for Season #1: 5/01 to 10/31 - Station PAIS0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/20/68-08/25/76	34	5.	7.971	27.	1.	41.363	6.431	1.	1.	11.25	17.5
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/20/68-08/25/76	34	27.1	26.891	30.4	23.9	3.32	1.822	24.	25.65	27.825	30.2
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/20/68-08/25/76	34	49500.	50058.824	64000.	34000.	71026737.968	8427.736	37000.	45000.	56000.	64000.
00300	OXYGEN, DISSOLVED MG/L	08/20/68-08/25/76	34	5.7	6.129	10.	4.8	1.919	1.385	4.9	5.075	6.825	8.45
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/20/68-08/25/76	34	91.	93.262	138.9	67.	432.151	20.788	67.5	76.	102.9	129.4
00310	BOD, 5 DAY, 20 DEG C MG/L	08/20/68-08/25/76	12	1.55	1.808	4.3	0.4	1.177	1.085	0.43	1.225	2.55	3.88
00400	PH (STANDARD UNITS)	08/20/68-08/25/76	34	8.3	8.338	8.9	7.9	0.075	0.273	8.	8.1	8.5	8.85
00400	CONVERTED PH (STANDARD UNITS)	08/20/68-08/25/76	34	8.3	8.263	8.9	7.9	0.08	0.284	8.	8.1	8.5	8.85
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/20/68-08/25/76	34	0.005	0.005	0.013	0.001	0.	0.003	0.001	0.003	0.008	0.01
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/20/68-08/25/76	12	0.095	0.117	0.41	0.	0.015	0.121	0.	0.015	0.2	0.353
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/20/68-08/25/76	12	0.005	0.012	0.09	0.	0.001	0.025	0.	0.	0.01	0.066
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/20/68-08/25/76	12	0.005	0.021	0.1	0.	0.001	0.038	0.	0.	0.018	0.1
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/20/68-08/25/76	12	0.055	0.057	0.14	0.	0.002	0.04	0.	0.033	0.078	0.128
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/20/68-08/25/76	9	1.4	2.	5.9	0.5	3.46	1.86	0.5	0.85	3.	5.9

** - 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

Seasonal Analysis for Season #2: 11/01 to 4/30 - Station PAIS0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/20/68-08/25/76	10	9.	8.7	19.	1.	45.344	6.734	1.	1.	16.	18.7
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/20/68-08/25/76	10	19.4	20.78	25.2	18.4	9.208	3.035	18.41	18.5	25.1	25.19
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/20/68-08/25/76	10	48000.	48800.	51000.	48000.	1733333.333	1316.561	48000.	48000.	50250.	51000.
00300	OXYGEN, DISSOLVED MG/L	08/20/68-08/25/76	7	12.1	10.814	15.1	7.4	11.008	3.318	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/20/68-08/25/76	7	154.9	139.371	193.9	97.	1698.779	41.216	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	08/20/68-08/25/76	4	1.45	1.4	1.7	1.	0.1	0.316	**	**	**	**
00400	PH (STANDARD UNITS)	08/20/68-08/25/76	10	8.4	8.31	8.4	8.1	0.021	0.145	8.1	8.1	8.4	8.4
00400	CONVERTED PH (STANDARD UNITS)	08/20/68-08/25/76	10	8.4	8.287	8.4	8.1	0.022	0.147	8.1	8.1	8.4	8.4
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/20/68-08/25/76	10	0.004	0.005	0.008	0.004	0.	0.002	0.004	0.004	0.008	0.008
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/20/68-08/25/76	4	0.08	0.068	0.1	0.01	0.002	0.04	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/20/68-08/25/76	4	0.	0.003	0.01	0.	0.	0.005	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/20/68-08/25/76	4	0.	0.003	0.01	0.	0.	0.005	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/20/68-08/25/76	4	0.15	0.153	0.25	0.06	0.011	0.107	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/20/68-08/25/76	3	2.8	2.833	3.7	2.	0.723	0.85	**	**	**	**

** - Less than 9 observations ## - Computed 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: PAIS0013

NPS Station ID: PAIS0013 LAT/LON: 26.563253/ -97.275171 Agency: 11NPSWRD Date Created: 02/20/99
Location: LOWER LAGUNA MADRE TRANSECT 19 SITE 1 FIPS State/County: 48489 TEXAS/WILLACY
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): PAIS_TWDB_19-1
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110208 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110208 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH OF POTRERO LOPENO SE 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT TRANSECT 19 SITE 1 IN THE LOWER LAGUNA MADRE. DATA ARE FROM A SERIES OF YEARLY REPORTS (NUMBERS 117; 144; 171; AND 191) BY D. C. HAHL AND KARL W. RATZLAFF OF THE U.S. GEOLOGICAL SURVEY FOR THE TEXAS WATER DEVELOPMENT BOARD. THE REPORTS ARE TITLED "CHEMICAL AND PHYSICAL CHARACTERISTICS OF WATER IN ESTUARIES OF TEXAS SEPTEMBER 1967-SEPTEMBER 1968; OCTOBER 1968-SEPTEMBER 1969; OCTOBER 1969-SEPTEMBER 1970; AND OCTOBER 1970-SEPTEMBER 1971" AND WERE PUBLISHED IN MAY 1970; APRIL 1972; JUNE 1973; AND MAY 1975 RESPECTIVELY. THE PURPOSE OF THESE REPORTS WAS TO CREATE "A LONG-TERM RECORD OF THE CHEMICAL; PHYSICAL; AND HYDRAULIC CHARACTERISTICS OF THE TEXAS ESTUARINE SYSTEMS." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0013

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/20/68-10/07/70	12	10.	9.833	25.	1.	60.697	7.791	1.	2.	15.	23.5
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/20/68-10/07/70	12	27.45	27.8	29.2	26.8	0.953	0.976	26.83	26.9	29.05	29.17
00078	TRANSPARENCY, SECCHI DISC (METERS)	09/11/69-10/07/70	2	0.335	0.335	0.58	0.09	0.12	0.346	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/20/68-10/07/70	12	52500.	52500.	58000.	47000.	22090909.091	4700.097	47000.	47000.	58000.	58000.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/11/69-10/07/70	4	50550.	50825.	53100.	49100.	4169166.667	2041.854	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/20/68-10/07/70	12	6.2	6.175	6.9	5.5	0.282	0.531	5.5	5.55	6.7	6.9
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/20/68-10/07/70	12	93.	96.417	111.	87.	82.083	9.06	87.	88.	106.	111.
00310	BOD, 5 DAY, 20 DEG C MG/L	09/11/69-10/07/70	4	0.5	0.5	0.8	0.2	0.12	0.346	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	08/20/68-10/07/70	12	8.15	8.15	8.3	8.	0.017	0.131	8.	8.	8.3	8.3
00406	CONVERTED PH, FIELD, STANDARD UNITS	08/20/68-10/07/70	12	8.147	8.132	8.3	8.	0.018	0.133	8.	8.	8.3	8.3
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/20/68-10/07/70	12	0.007	0.007	0.01	0.005	0.	0.002	0.005	0.005	0.01	0.01
00440	BICARBONATE ION (MG/L AS HCO3)	09/11/69-10/07/70	2	147.	147.	148.	146.	2.	1.414	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/07/70-10/07/70	2	0.03	0.03	0.04	0.02	0.	0.014	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/07/70-10/07/70	2	0.065	0.065	0.07	0.06	0.	0.007	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/11/69-10/07/70	4 ##	0.05	0.05	0.1	0.	0.003	0.058	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/11/69-10/07/70	4	0.03	0.033	0.04	0.03	0.	0.005	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/11/69-10/07/70	4	0.02	0.018	0.02	0.01	0.	0.005	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/11/69-09/11/69	1	6330.	6330.	6330.	6330.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/11/69-10/07/70	2	391.	391.	402.	380.	242.	15.556	**	**	**	**

** - Less than 9 observations ## - 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: PAIS0013

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/11/69-10/07/70	2	1310.	1310.	1320.	1300.	200.	14.142	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	09/11/69-10/07/70	2	10100.	10100.	10800.	9400.	980000.	989.949	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/11/69-09/11/69	1	19100.	19100.	19100.	19100.	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	10/07/70-10/07/70	1	17000.	17000.	17000.	17000.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	09/11/69-09/11/69	1	2700.	2700.	2700.	2700.	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	10/07/70-10/07/70	1	2500.	2500.	2500.	2500.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/11/69-09/11/69	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/11/69-10/07/70	4	0.8	0.6	0.8	0.	0.16	0.4	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	09/11/69-09/11/69	1	4000.	4000.	4000.	4000.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/11/69-09/11/69	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/11/69-09/11/69	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	09/11/69-09/11/69	2	39.	39.	43.	35.	32.	5.657	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	09/11/69-09/11/69	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	09/11/69-09/11/69	2	6.	6.	7.	5.	2.	1.414	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/11/69-09/11/69	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01082	STRONTIUM, TOTAL (UG/L AS SR)	09/11/69-09/11/69	2	7500.	7500.	7600.	7400.	20000.	141.421	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	09/11/69-09/11/69	2	45.	45.	50.	40.	50.	7.071	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	09/11/69-09/11/69	2	160.	160.	160.	160.	0.	0.	**	**	**	**
46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	09/11/69-09/11/69	1	6450.	6450.	6450.	6450.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/11/69-10/07/70	2	32700.	32700.	34400.	31000.	5780000.	2404.163	**	**	**	**
71865	IODIDE (MG/L AS I)	09/11/69-09/11/69	1	0.06	0.06	0.06	0.06	0.	0.	**	**	**	**
71870	BROMIDE (MG/L AS BR)	09/11/69-09/11/69	1	51.	51.	51.	51.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: PAIS0013

				Total	Exceed	Prop.	----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------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.	12	0	0.00	12	0	0.00									
00406	PH, FIELD	Marine Chronic	8.5	12	0	0.00	12	0	0.00									
		Other-Lo Lim.	6.5	12	0	0.00	12	0	0.00									
01025	CADMIUM, DISSOLVED	Marine Acute	43.	2	0	0.00	2	0	0.00									
01040	COPPER, DISSOLVED	Marine Acute	2.9	2	2	1.00	2	2	1.00									
01049	LEAD, DISSOLVED	Marine Acute	220.	2	0	0.00	2	0	0.00									
01090	ZINC, DISSOLVED	Marine Acute	95.	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: PAIS0014

NPS Station ID: PAIS0014 LAT/LON: 26.563559/ -97.407143 Agency: 11NPSWRD Date Created: 04/17/99
Location: LIGHT 282 ON THE INTRACOASTAL WATERWAY FIPS State/County: 48489 TEXAS/WILLACY
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): PAIS_CONO_282
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110208 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110208 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PORT MANSFIELD TEXAS 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT LIGHT 282 ON THE INTRACOASTAL WATERWAY. DATA WERE COLLECTED ALONG A TRANSECT PERPENDICULAR TO THE WATERWAY AND AVERAGED FOR THE MONTH. DATA ARE FROM A REPORT BY JOHN T. CONOVER; "THE ECOLOGY; SEASONAL PERIODICITY; AND DISTRIBUTION OF BENTHIC PLANTS IN SOME TEXAS LAGOONS;" OCTOBER 1963. THE PURPOSE OF THIS REPORT WAS TO "STUDY THE LOCAL EFFECTS OF LIGHT; TEMPERATURE; AND SALINITY ON THE SEASONAL GROWTH OF PLANTS." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0014

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: PAIS0015

NPS Station ID: PAIS0015 LAT/LON: 26.563642/ -97.407087 Agency: 11NPSWRD Date Created: 02/27/99
Location: PORT MANSFIELD CHANNEL & INTRACOASTAL WATERWAY FIPS State/County: 48489 TEXAS/WILLACY
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): PAIS_2491_500
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110208 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110208 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PORT MANSFIELD TEXAS 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT A BEACON LIGHT ON THE INTRACOASTAL WATERWAY AT THE INTERSECTION WITH THE PORT MANSFIELD CHANNEL. DATA ARE FROM A REPORT BY STEVE WARSHAW OF THE TEXAS WATER QUALITY BOARD; "WATER QUALITY SEGMENT REPORT FOR SEGMENT NO. 2491 LAGUNA MADRE;" JUNE 1975. "THE REPORT IS DESIGNED TO DESCRIBE PREVAILING WATER QUALITY IN A SEGMENT AND TO PROVIDE A BASIS FOR DECISION MAKING IN THE CONTINUING EFFORT TO MAINTAIN AND IMPROVE THE QUALITY OF TEXAS' SURFACE WATERS." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0015

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	11/26/71-09/17/74	11	77.	74.636	87.	57.	115.455	10.745	57.6	67.	83.	87.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/26/71-09/17/74	12	62916.	60386.667	85176.	40992.	220211820.606	14839.536	41798.4	45220.	70560.	83412.
00300	OXYGEN, DISSOLVED MG/L	11/26/71-09/17/74	12	7.2	6.767	11.5	1.5	6.102	2.47	2.4	5.3	8.3	10.6
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	11/26/71-09/17/74	11	92.	95.	164.	24.	1092.4	33.051	34.6	85.	108.	153.8
00400	PH (STANDARD UNITS)	02/23/72-09/17/74	11	8.5	8.227	8.8	6.8	0.368	0.607	6.96	7.8	8.7	8.78
00400	CONVERTED PH (STANDARD UNITS)	02/23/72-09/17/74	11	8.5	7.689	8.8	6.8	0.687	0.829	6.96	7.8	8.7	8.78
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/23/72-09/17/74	11	0.003	0.02	0.158	0.002	0.002	0.046	0.002	0.002	0.016	0.132
00612	AMMONIA, UNIONZED (MG/L AS N)	11/26/71-09/17/74	12 ##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05	0.05
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	11/26/71-09/17/74	12 ##	0.015	0.015	0.015	0.015	0.	0.	0.015	0.015	0.015	0.015
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	11/26/71-09/17/74	12	0.085	0.103	0.26	0.015	0.004	0.066	0.023	0.07	0.138	0.236
32230	CHLOROPHYLL A (MG/L)	02/23/72-06/19/74	9 ##	0.002	0.019	0.066	0.002	0.001	0.027	0.002	0.002	0.047	0.066

** - 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: PAIS0015

				Total	Exceed	Prop.	----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	12	1	0.08	6	1	0.17	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

EPA Water Quality Criteria Analysis for Station: PAIS0015

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	5/01-10/31 Obs	5/01-10/31 Exceed	5/01-10/31 Prop.	11/01-4/30 Obs	11/01-4/30 Exceed	11/01-4/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400 PH	Marine Chronic	8.5	11	6	0.55	6	4	0.67	5	2	0.40						
	Other-Lo Lim.	6.5	11	0	0.00	6	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: PAIS0016

NPS Station ID: PAIS0016
LAT/LON: 26.565003/ -97.275838
Agency: 112WRD
Date Created: 04/18/81
Location: 1219401LAGUNA MADRE ES LINE 194 SITE 01
FIPS State/County: 48489 TEXAS/WILLACY
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): 263354097163300
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC:
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index:
RF1 Mile Point: 0.000
Distance from RF1: 12.00
On/Off RF1:
RF3 Index: 12110208241700.00
RF3 Mile Point: 24.79
Distance from RF3: 0.34
On/Off RF3:
Description:

Parameter Inventory for Station: PAIS0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/20/68-10/22/74	35	10.	10.914	25.	1.	61.257	7.827	1.	5.	15.	24.4
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/20/68-10/22/74	32	26.25	26.425	29.2	23.4	2.343	1.531	24.86	25.325	27.5	29.04
00070	TURBIDITY, (JACKSON CANDLE UNITS)	04/23/74-10/22/74	6	20.	25.	40.	20.	70.	8.367	**	**	**	**
00078	TRANSPARENCY, SECCHI DISC (METERS)	09/11/69-10/22/74	6	0.735	0.77	1.02	0.58	0.031	0.177	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/20/68-10/22/74	33	50000.	49484.848	58000.	38000.	35132575.758	5927.274	38000.	47000.	53000.	58000.
00300	OXYGEN, DISSOLVED MG/L	08/20/68-10/22/74	30	6.2	6.62	9.3	4.9	1.921	1.386	5.21	5.5	8.025	9.08
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/20/68-10/22/74	30	93.	98.63	128.9	73.	303.573	17.423	76.2	86.75	116.15	125.7
00310	BOD, 5 DAY, 20 DEG C MG/L	09/11/69-10/07/70	4	0.5	0.5	0.8	0.2	0.12	0.346	**	**	**	**
00335	COD, .025N K2CR2O7 MG/L	10/07/70-10/07/70	2	30.5	30.5	33.	28.	12.5	3.536	**	**	**	**
00400	PH (STANDARD UNITS)	08/20/68-10/22/74	33	8.1	8.064	8.4	7.5	0.073	0.27	7.6	7.9	8.3	8.3
00400	CONVERTED PH (STANDARD UNITS)	08/20/68-10/22/74	33	8.1	7.972	8.4	7.5	0.082	0.286	7.6	7.9	8.3	8.3
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/20/68-10/22/74	33	0.008	0.011	0.032	0.004	0.	0.008	0.005	0.005	0.013	0.025
00405	CARBON DIOXIDE (MG/L AS CO2)	09/11/69-10/07/70	2	1.8	1.8	2.4	1.2	0.72	0.849	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/11/69-10/07/70	2	120.5	120.5	121.	120.	0.5	0.707	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	09/11/69-10/07/70	2	147.	147.	148.	146.	2.	1.414	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/11/69-10/07/70	4	0.01	0.015	0.04	0.	0.	0.019	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	09/11/69-10/07/70	4	0.03	0.033	0.07	0.	0.001	0.038	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/11/69-10/07/70	4	0.05	0.05	0.1	0.	0.003	0.058	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/11/69-10/07/70	4	0.06	0.053	0.06	0.03	0.	0.015	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/11/69-10/07/70	4	0.03	0.033	0.04	0.03	0.	0.005	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/11/69-10/07/70	4	0.02	0.018	0.02	0.01	0.	0.005	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/11/69-10/07/70	2	6350.	6350.	6400.	6300.	5000.	70.711	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/11/69-10/07/70	2	6250.	6250.	6300.	6200.	5000.	70.711	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/11/69-10/07/70	2	390.9	390.9	401.9	379.9	242.	15.556	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/11/69-10/07/70	2	1310.	1310.	1320.	1300.	200.	14.142	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	09/11/69-10/07/70	2	10100.	10100.	10800.	9400.	980000.	989.949	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/11/69-10/07/70	2	18050.	18050.	19100.	17000.	2205000.	1484.924	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	09/11/69-10/07/70	2	2600.	2600.	2700.	2500.	20000.	141.421	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/11/69-10/07/70	2	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/11/69-10/07/70	4	0.8	0.6	0.8	0.	0.16	0.4	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	09/11/69-10/07/70	2	4100.	4100.	4200.	4000.	20000.	141.421	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/11/69-09/11/69	2	0.	0.	0.	0.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/11/69-09/11/69	2	0.	0.	0.	0.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	09/11/69-09/11/69	2	39.	39.	43.	35.	32.	5.657	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	09/11/69-09/11/69	2	0.	0.	0.	0.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	09/11/69-09/11/69	2	6.	6.	7.	5.	2.	1.414	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/11/69-09/11/69	2	0.	0.	0.	0.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	09/11/69-09/11/69	2	7500.	7500.	7600.	7400.	20000.	141.421	**	**	**	**

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

Parameter Inventory for Station: PAIS0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01090	ZINC, DISSOLVED (UG/L AS ZN)	09/11/69-09/11/69	2	45.	45.	50.	40.	50.	7.071	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	09/11/69-09/11/69	2	160.	160.	160.	160.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/11/69-10/07/70	2	32700.	32700.	34400.	31000.	5780000.	2404.163	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/11/69-10/07/70	2	44.5	44.5	46.8	42.2	10.58	3.253	**	**	**	**
71865	IODIDE (MG/L AS I)	09/11/69-10/07/70	2	0.05	0.05	0.06	0.04	0.	0.014	**	**	**	**
71870	BROMIDE (MG/L AS BR)	09/11/69-10/07/70	2	53.5	53.5	56.	51.	12.5	3.536	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: PAIS0016

				Total	Exceed	Prop.	----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------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.	6	0	0.00	3	0	0.00	3	0	0.00						
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	30	0	0.00	30	0	0.00									
00400	PH	Marine Chronic	8.5	33	0	0.00	30	0	0.00	3	0	0.00						
		Other-Lo Lim.	6.5	33	0	0.00	30	0	0.00	3	0	0.00						
01025	CADMIUM, DISSOLVED	Marine Acute	43.	2	0	0.00	2	0	0.00									
01040	COPPER, DISSOLVED	Marine Acute	2.9	2	2	1.00	2	2	1.00									
01049	LEAD, DISSOLVED	Marine Acute	220.	2	0	0.00	2	0	0.00									
01090	ZINC, DISSOLVED	Marine Acute	95.	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

Seasonal Analysis for Season #1: 5/01 to 10/31 - Station PAIS0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/20/68-10/22/74	32	10.	10.875	25.	1.	60.629	7.786	1.	5.	15.	24.7
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/20/68-10/22/74	30	26.85	26.517	29.2	23.4	2.366	1.538	24.83	25.4	27.5	29.08
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/20/68-10/22/74	30	51000.	49633.333	58000.	38000.	38309195.402	6189.442	38000.	47000.	53000.	58000.
00300	OXYGEN, DISSOLVED MG/L	08/20/68-10/22/74	30	6.2	6.62	9.3	4.9	1.921	1.386	5.21	5.5	8.025	9.08
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/20/68-10/22/74	30	93.	98.63	128.9	73.	303.573	17.423	76.2	86.75	116.15	125.7
00400	PH (STANDARD UNITS)	08/20/68-10/22/74	30	8.15	8.06	8.4	7.5	0.08	0.284	7.6	7.9	8.3	8.3
00400	CONVERTED PH (STANDARD UNITS)	08/20/68-10/22/74	30	8.147	7.961	8.4	7.5	0.09	0.301	7.6	7.9	8.3	8.3
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/20/68-10/22/74	30	0.007	0.011	0.032	0.004	0.	0.008	0.005	0.005	0.013	0.025

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

Seasonal Analysis for Season #2: 11/01 to 4/30 - Station PAIS0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/20/68-10/22/74	3	10.	11.333	22.	2.	101.333	10.066	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/20/68-10/22/74	2	25.05	25.05	25.1	25.	0.005	0.071	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/20/68-10/22/74	3	49000.	48000.	49000.	46000.	3000000.	1732.051	**	**	**	**
00400	PH (STANDARD UNITS)	08/20/68-10/22/74	3	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/20/68-10/22/74	3	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/20/68-10/22/74	3	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed 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: PAIS0017

NPS Station ID: PAIS0017
LAT/LON: 26.566670/ -97.266670
Agency: 21TEXWR
Date Created: 12/15/79
Location: GULF OF MEXICO PORT MANSFIELD BEYOND JETTIES
FIPS State/County: 48993 TEXAS/
Station Type: /TYPA/AMBNT/OCEAN
STORET Station ID(s): 25010500 /2206 8
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC:
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: RIO GRANDE LOWER BELOW PECOS RIVER
ECO Region:
RF1 Index:
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110203056100.00
RF3 Mile Point: 0.00
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: PAIS0017

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: PAIS0018

NPS Station ID: PAIS0018 LAT/LON: 26.566670/ -97.266670 Agency: 21TXWQB Date Created: 06/28/97
Location: GULF OF MEXICO AT PORT MANSFIELD@ JUST BEYOND JE FIPS State/County: 48489 TEXAS/WILLACY
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): 13469
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110208 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: Gulf of Mexico ECO Region: 34M
RF1 Index: 12110208 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
GULF OF MEXICO AT PORT MANSFIELD@ JUST BEYOND JETTIES AT BELL BUOY

Parameter Inventory for Station: PAIS0018

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/09/69-08/30/94	156	5.	8.769	40.	1.	75.25	8.675	1.	1.	15.	20.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/09/69-08/30/94	108	25.	23.846	30.6	10.	26.951	5.191	15.56	20.25	27.95	29.
00011p	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	09/09/69-02/19/85	76	74.5	73.839	87.	49.5	89.616	9.467	59.82	68.	81.9	84.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	09/09/69-06/20/77	23	8.	8.304	50.	0.	99.312	9.966	0.	2.	10.	10.
00077	TRANSPARENCY, SECCHI DISC (INCHES)	06/26/75-07/20/88	15	48.	50.067	98.	22.	515.21	22.698	26.8	32.	58.	96.8
00078	TRANSPARENCY, SECCHI DISC (METERS)	08/17/89-08/30/94	8	1.5	1.711	3.4	0.64	1.039	1.019	**	**	**	**
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/23/70-08/30/94	101	49400.	49341.188	64260.	30000.	39669038.574	6298.336	40100.	46150.	54750.	56960.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/09/69-10/09/86	48	67900.	66320.25	82656.	43100.	127862242.191	11307.619	47494.	56532.	76608.	78489.1
00300p	OXYGEN, DISSOLVED MG/L	09/09/69-08/30/94	101	6.8	7.068	10.7	3.	1.929	1.389	5.42	6.2	7.9	9.26
00310	BOD, 5 DAY, 20 DEG C MG/L	09/09/69-07/11/73	13	1.	1.692	4.5	0.5	2.022	1.422	0.5	0.5	3.	4.1
00400p	PH (STANDARD UNITS)	10/07/70-08/30/94	91	8.1	8.086	8.8	6.8	0.118	0.344	7.7	7.9	8.3	8.4
00400p	CONVERTED PH (STANDARD UNITS)	10/07/70-08/30/94	91	8.1	7.901	8.8	6.8	0.153	0.391	7.7	7.9	8.3	8.4
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/07/70-08/30/94	91	0.008	0.013	0.158	0.002	0.	0.02	0.004	0.005	0.013	0.02
00403	PH, LAB, STANDARD UNITS SU	09/09/69-10/09/86	48	8.2	8.204	8.9	7.4	0.055	0.234	7.9	8.1	8.3	8.5
00403	CONVERTED PH, LAB, STANDARD UNITS	09/09/69-10/09/86	48	8.2	8.135	8.9	7.4	0.06	0.244	7.9	8.1	8.3	8.5
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/09/69-10/09/86	48	0.006	0.007	0.04	0.001	0.	0.006	0.003	0.005	0.008	0.013
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	02/06/78-08/30/94	34	120.5	124.382	169.	105.	188.183	13.718	110.5	114.	132.5	145.5
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	10/09/86-10/09/86	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	07/20/88-08/30/94	25	33.	34.412	38.4	30.	8.565	2.927	30.06	32.6	36.75	38.4
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/09/69-08/30/94	58	17.5	29.631	142.	0.6	948.394	30.796	5.	10.	40.25	79.2
00535p	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	01/13/70-08/30/94	55	7.	10.4	45.	1.	81.837	9.046	4.	5.	11.	26.
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/09/69-08/30/94	58	0.045	0.069	0.44	0.005	0.005	0.073	0.01	0.01	0.1	0.141
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/24/82-08/30/94	12	## 0.015	0.02	0.05	0.005	0.	0.014	0.005	0.011	0.028	0.047
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/09/69-08/30/94	58	0.02	0.022	0.08	0.005	0.	0.015	0.005	0.01	0.03	0.041
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/27/93-08/30/94	2	0.385	0.385	0.58	0.19	0.076	0.276	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	09/09/69-02/19/85	47	0.09	0.121	0.55	0.03	0.013	0.114	0.03	0.04	0.15	0.254
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/11/73-02/19/85	33	0.03	0.074	0.52	0.015	0.012	0.109	0.015	0.03	0.06	0.198
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	09/09/69-08/30/94	58	0.03	0.044	0.21	0.01	0.002	0.043	0.01	0.02	0.053	0.101
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/11/73-08/30/94	44	0.01	0.026	0.17	0.005	0.001	0.034	0.005	0.01	0.03	0.065
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	06/19/74-08/30/94	41	2.	2.622	10.	0.5	5.247	2.291	0.5	1.	3.	5.8
00940p	CHLORIDE,TOTAL IN WATER MG/L	09/09/69-08/30/94	58	18150.	18005.617	21900.	0.8	10105910.939	3178.98	15423.	16825.	20125.	20710.
00941	CHLORIDE, DISSOLVED IN WATER MG/L	12/04/75-09/08/76	3	17000.	16000.	18000.	13000.	7000000.	2645.751	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	07/23/70-08/30/94	55	2600.	2951.691	23500.	1680.	8046296.292	2836.599	2194.	2400.	2790.	2950.
01002	ARSENIC, TOTAL (UG/L AS AS)	10/07/70-10/07/70	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	10/07/70-10/07/70	1	200.	200.	200.	200.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	10/07/70-10/07/70	1	10.	10.	10.	10.	0.	0.	**	**	**	**

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

Parameter Inventory for Station: PAIS0018

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01034	CHROMIUM, TOTAL (UG/L AS CR)	10/07/70-10/07/70	1	1000.	1000.	1000.	1000.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	10/07/70-10/07/70	1	400.	400.	400.	400.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	10/07/70-10/07/70	1	50.	50.	50.	50.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/07/70-10/07/70	1	100.	100.	100.	100.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	10/07/70-10/07/70	1	100.	100.	100.	100.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	10/07/70-10/07/70	1	50.	50.	50.	50.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	10/07/70-10/07/70	1	100.	100.	100.	100.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	10/07/70-10/07/70	1	10.	10.	10.	10.	0.	0.	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	09/18/75-11/20/80	13	0.	5.231	40.	0.	139.526	11.812	0.	0.	3.5	32.
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	09/18/75-11/20/80	13	0.	0.3	1.602	0.	0.306	0.553	0.	0.	0.5	1.482
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			1.996								
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	05/11/71-03/21/73	4	2.	12.5	46.	0.	499.667	22.353	**	**	**	**
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	05/11/71-03/21/73	4	0.301	0.566	1.663	0.	0.555	0.745	**	**	**	**
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			3.683								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/19/79-08/30/94	22 ##	4.75	4.364	12.	0.5	4.314	2.077	2.5	3.5	5.	5.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/19/79-08/30/94	22 ##	0.676	0.589	1.079	-0.301	0.06	0.244	0.398	0.544	0.699	0.699
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			3.882								
31619	FECAL COLIFORM,MPN,BORIC ACID LACTOSE BR,43C,48HR	05/11/71-03/21/73	4	2.	12.5	46.	0.	499.667	22.353	**	**	**	**
31619	LOG FECAL COLIFORM,MPN,BORIC ACID LACTOSE BR,43C,4	05/11/71-03/21/73	4	0.301	0.566	1.663	0.	0.555	0.745	**	**	**	**
31619	GM FECAL COLIFORM,MPN,BORIC ACID LACTOSE BR,43C,48	GEOMETRIC MEAN =			3.683								
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	02/23/72-08/30/94	49	4.	5.204	40.	0.5	37.923	6.158	1.	2.25	5.69	10.
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	02/06/78-08/30/94	33 ##	1.	1.971	6.95	0.	3.	1.732	0.5	1.	2.5	4.72
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	02/06/78-08/30/94	7	34100.	34745.714	42000.	30320.	13163295.238	3628.126	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	10/07/70-10/07/70	1	1.	1.	1.	1.	0.	0.	**	**	**	**
72053	DAYS SINCE PRECIPITATION EVENT DAYS	05/15/91-05/27/93	4	0.75	0.625	1.	0.	0.229	0.479	**	**	**	**

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

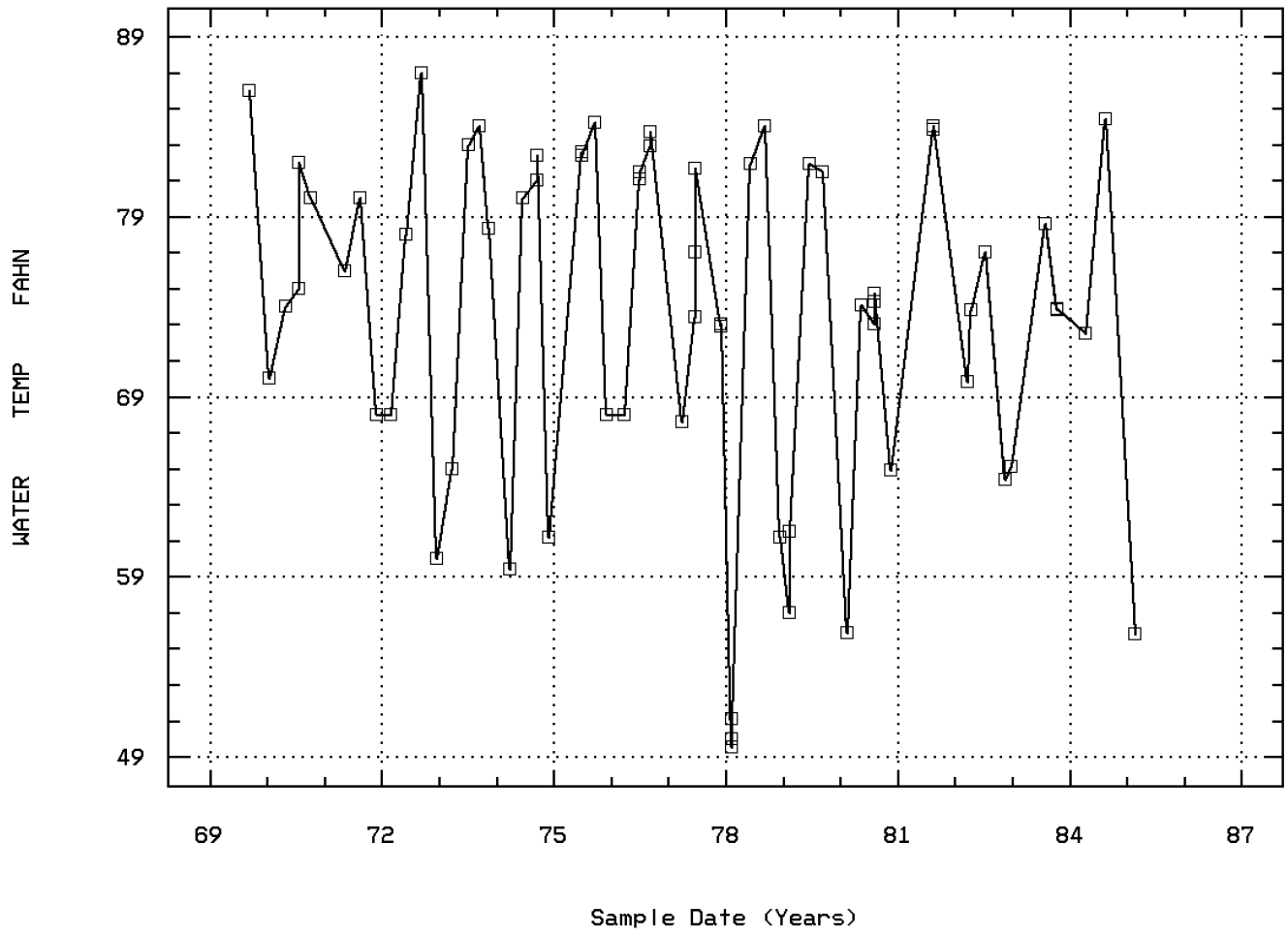
EPA Water Quality Criteria Analysis for Station: PAIS0018

				Total	Exceed	Prop.	----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------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.	23	1	0.04	14	0	0.00	9	1	0.11						
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	101	1	0.01	66	1	0.02	35	0	0.00						
00400	PH	Marine Chronic	8.5	91	8	0.09	59	4	0.07	32	4	0.13						
		Other-Lo Lim.	6.5	91	0	0.00	59	0	0.00	32	0	0.00						
00403	PH, LAB	Marine Chronic	8.5	48	5	0.10	25	3	0.12	23	2	0.09						
		Other-Lo Lim.	6.5	48	0	0.00	25	0	0.00	23	0	0.00						
01002	ARSENIC, TOTAL	Marine Acute	69.	1	0	0.00	1	0	0.00									
01027	CADMIUM, TOTAL	Marine Acute	43.	1	0	0.00	1	0	0.00									
01042	COPPER, TOTAL	Marine Acute	2.9	1	1	1.00	1	1	1.00									
01051	LEAD, TOTAL	Marine Acute	220.	1	0	0.00	1	0	0.00									
01067	NICKEL, TOTAL	Marine Acute	75.	1	1	1.00	1	1	1.00									
01077	SILVER, TOTAL	Marine Acute	0.12	1	1	1.00	1	1	1.00									
01092	ZINC, TOTAL	Marine Acute	95.	1	1	1.00	1	1	1.00									
01147	SELENIUM, TOTAL	Marine Acute	300.	1	0	0.00	1	0	0.00									
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	13	0	0.00	8	0	0.00	5	0	0.00						
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	4	0	0.00	3	0	0.00	1	0	0.00						
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	22	0	0.00	13	0	0.00	9	0	0.00						
71900	MERCURY, TOTAL	Marine Acute	2.1	1	0	0.00	1	0	0.00									

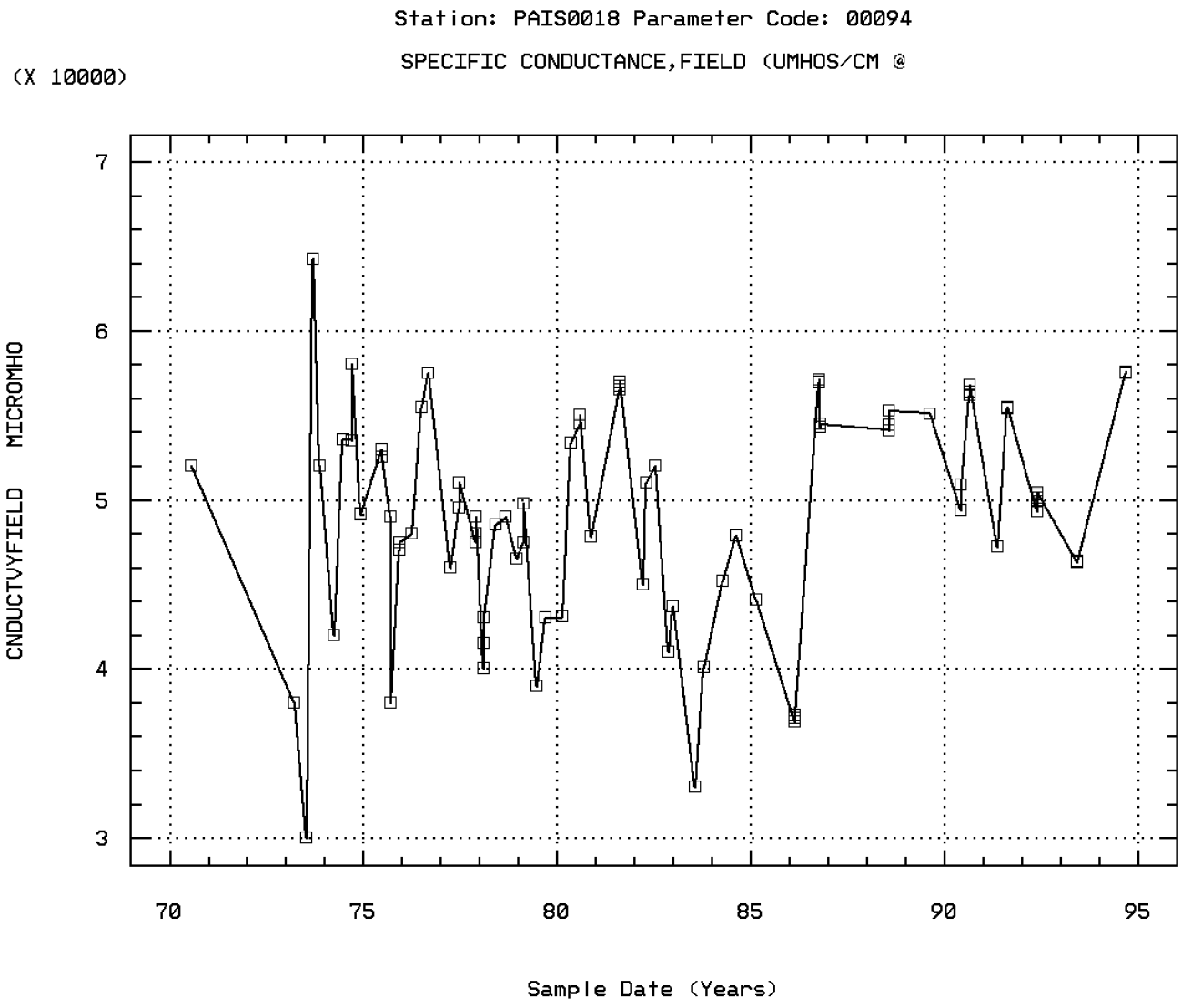
& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station: PAIS0018 Parameter Code: 00011

TEMPERATURE, WATER (DEGREES FAHRENHEIT)



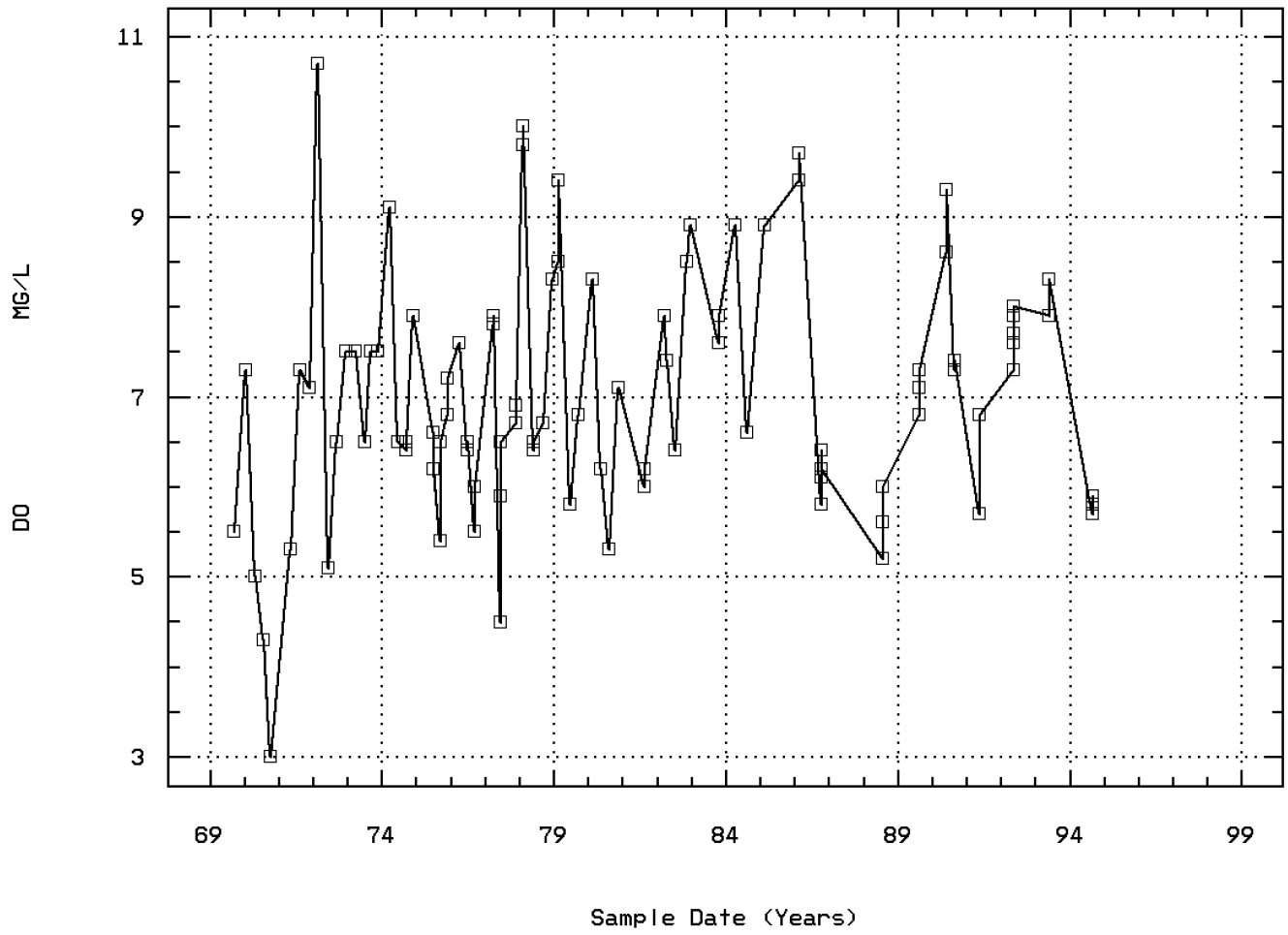
GULF OF MEXICO AT PORT MANSFIELD@ JUST



GULF OF MEXICO AT PORT MANSFIELD@ JUST

Station: PAIS0018 Parameter Code: 00300

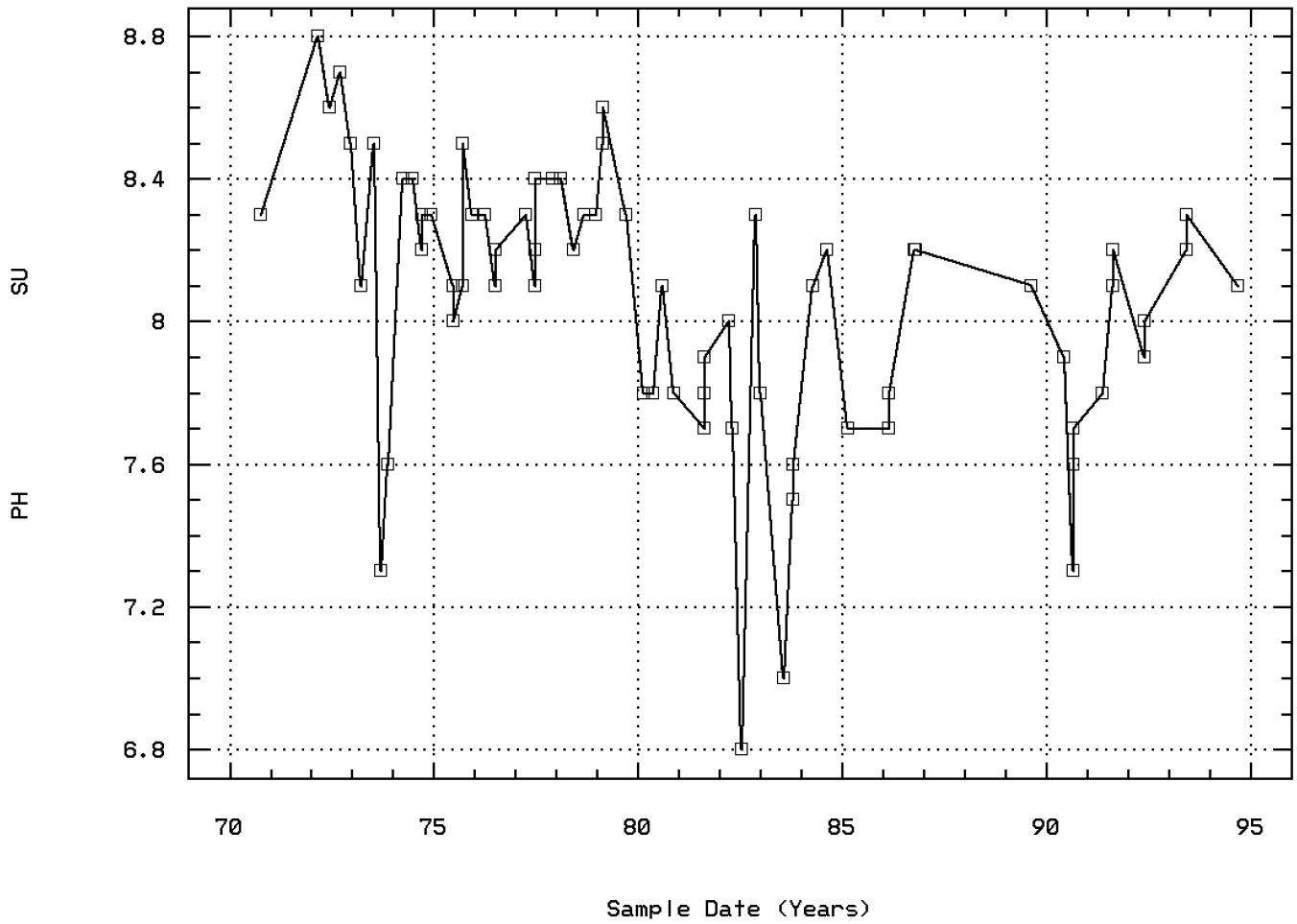
OXYGEN, DISSOLVED



GULF OF MEXICO AT PORT MANSFIELD@ JUST

Station: PAIS0018 Parameter Code: 00400

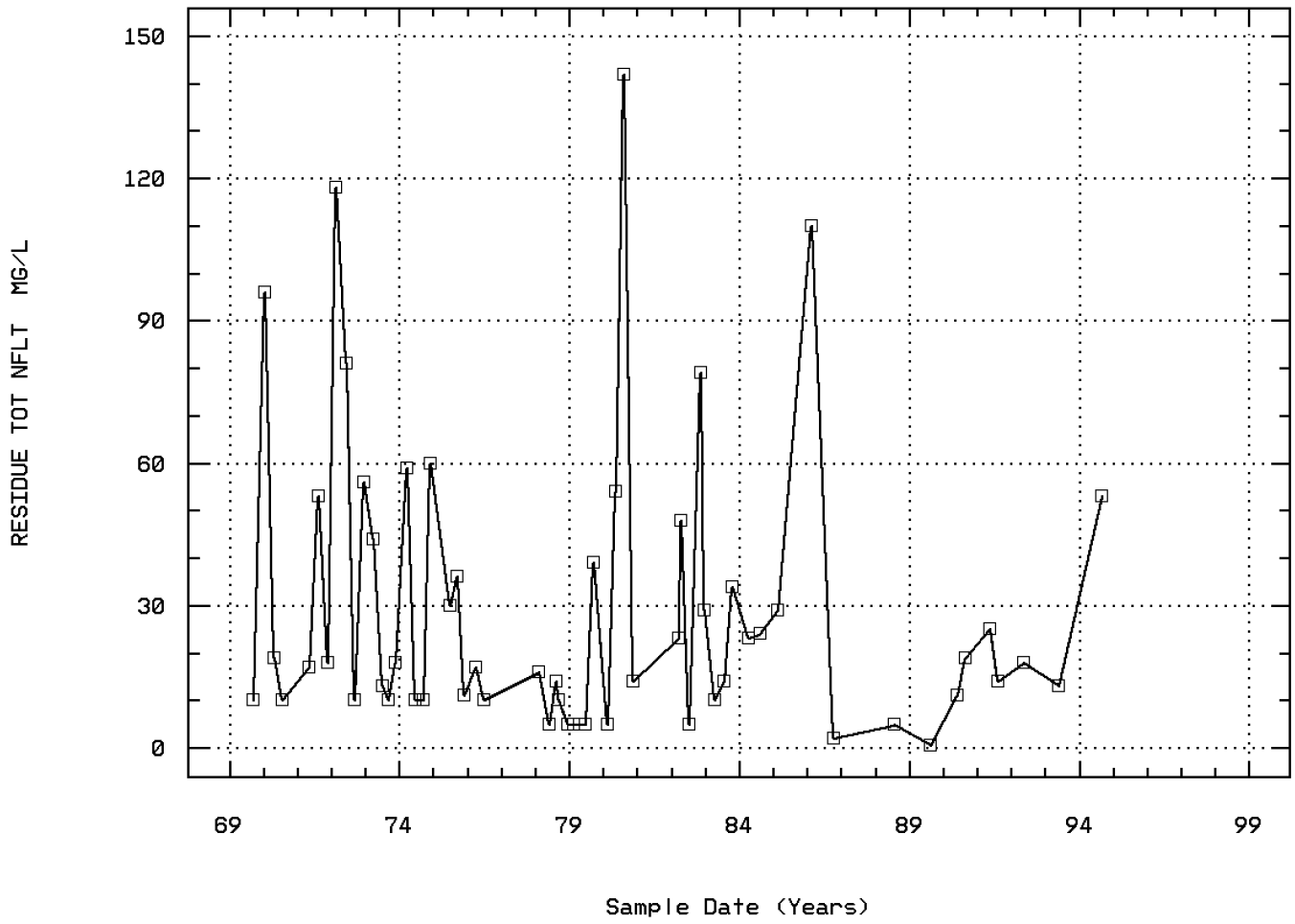
PH (STANDARD UNITS)



GULF OF MEXICO AT PORT MANSFIELD@ JUST

Station: PAIS0018 Parameter Code: 00530

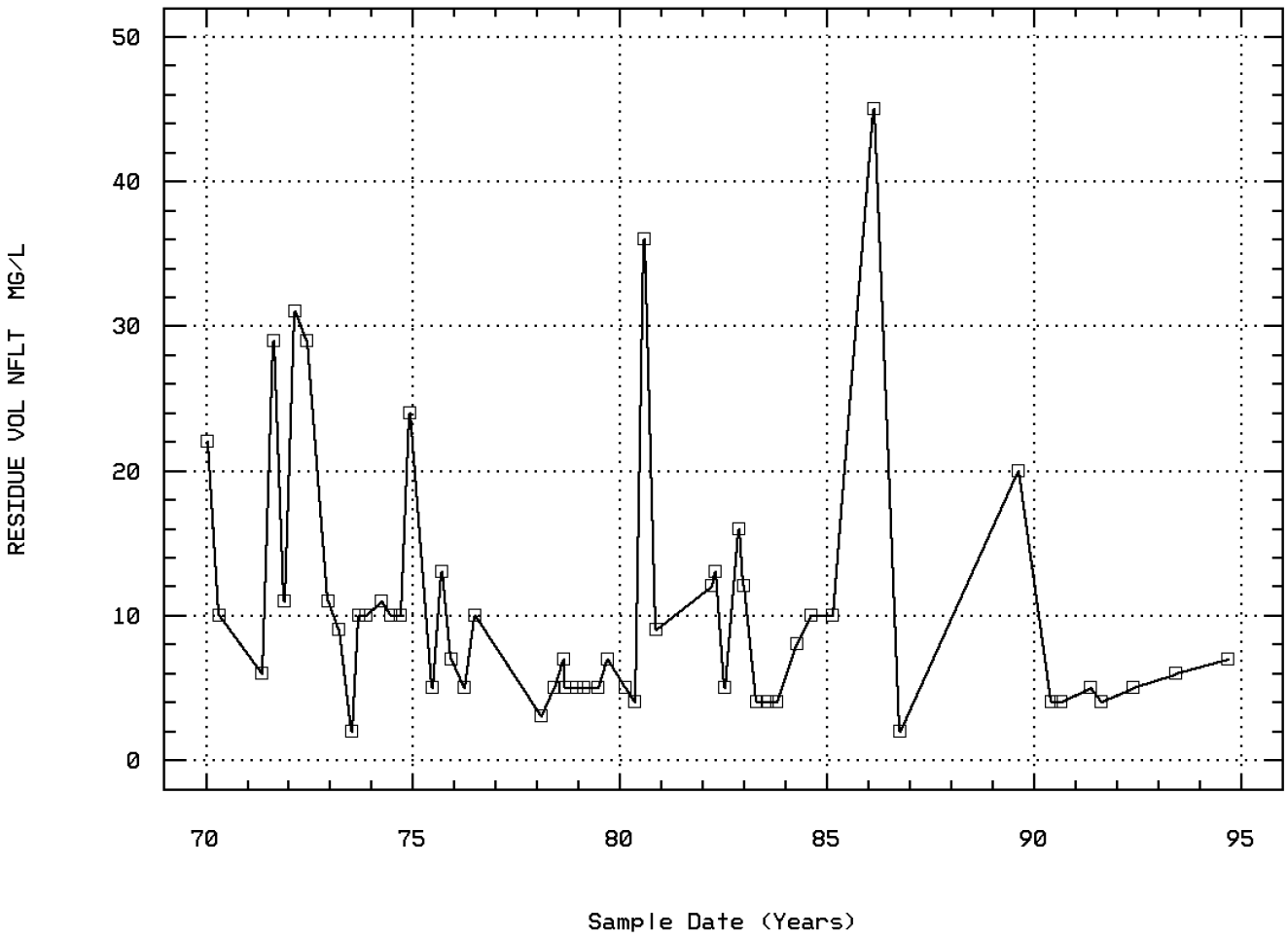
RESIDUE, TOTAL NONFILTRABLE (MG/L)



GULF OF MEXICO AT PORT MANSFIELD@ JUST

Station: PAIS0018 Parameter Code: 00535

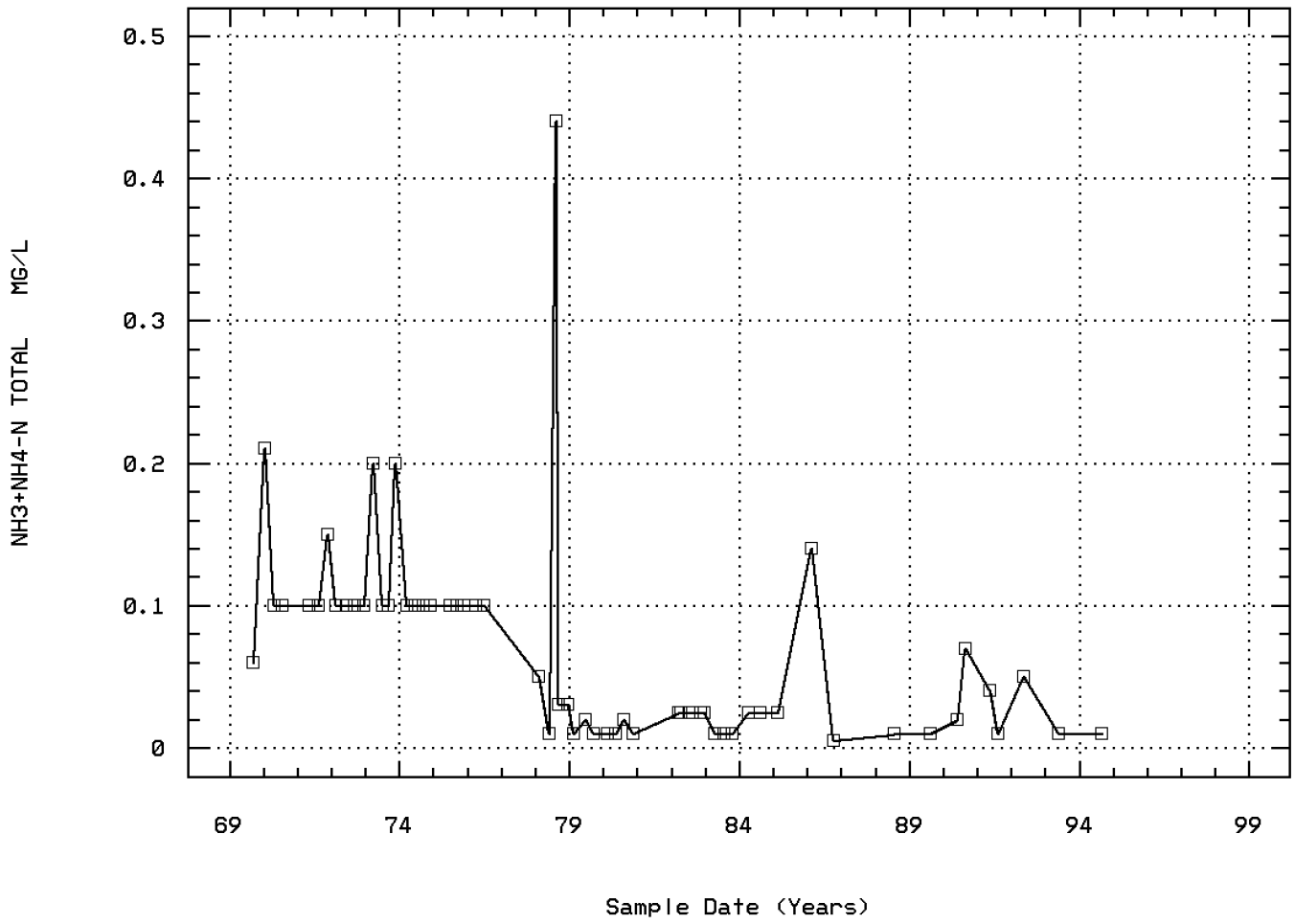
RESIDUE, VOLATILE NONFILTRABLE (MG/L)



GULF OF MEXICO AT PORT MANSFIELD@ JUST

Station: PAIS0018 Parameter Code: 00610

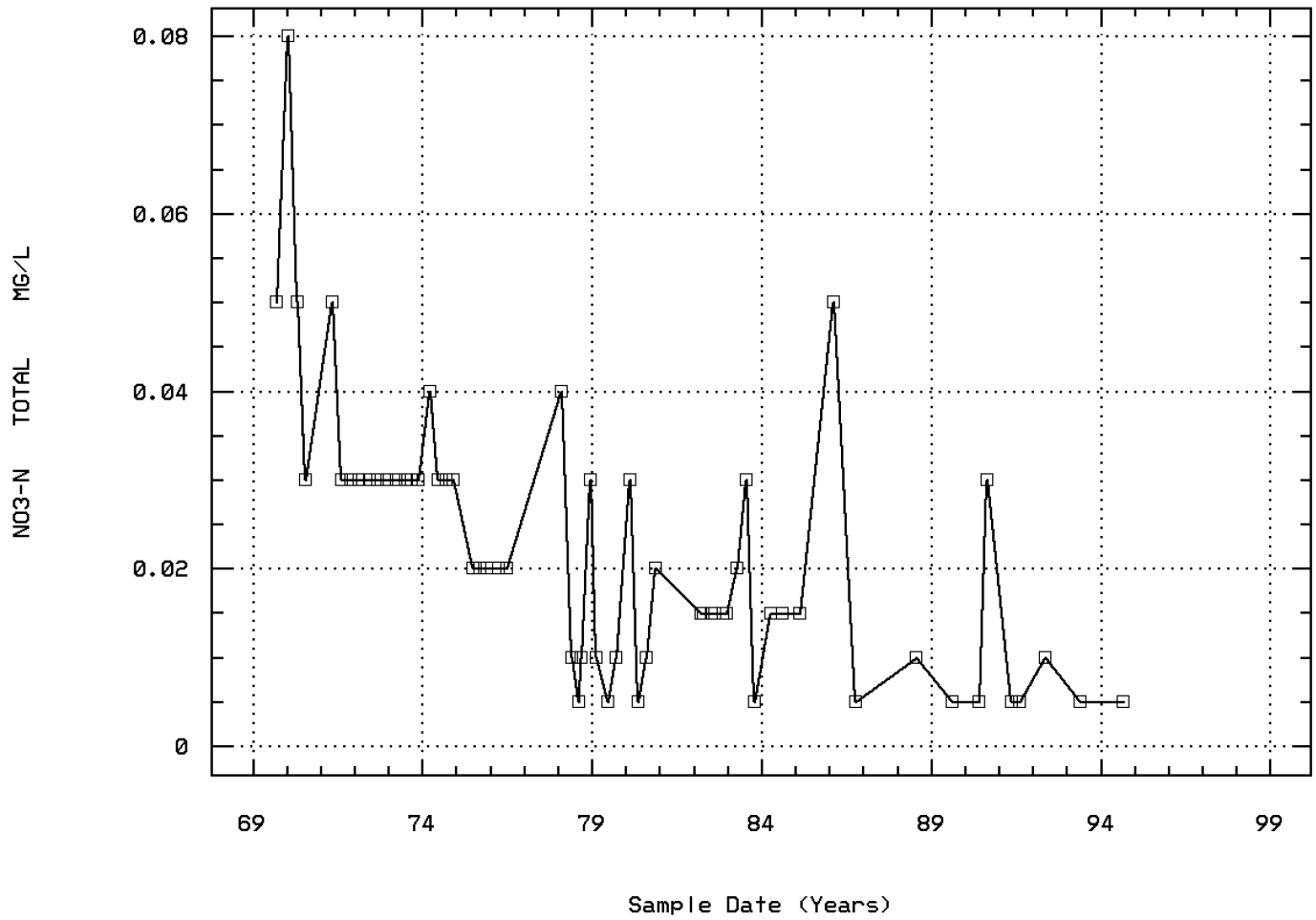
NITROGEN, AMMONIA, TOTAL (MG/L AS N)



GULF OF MEXICO AT PORT MANSFIELD@ JUST

Station: PAIS0018 Parameter Code: 00620

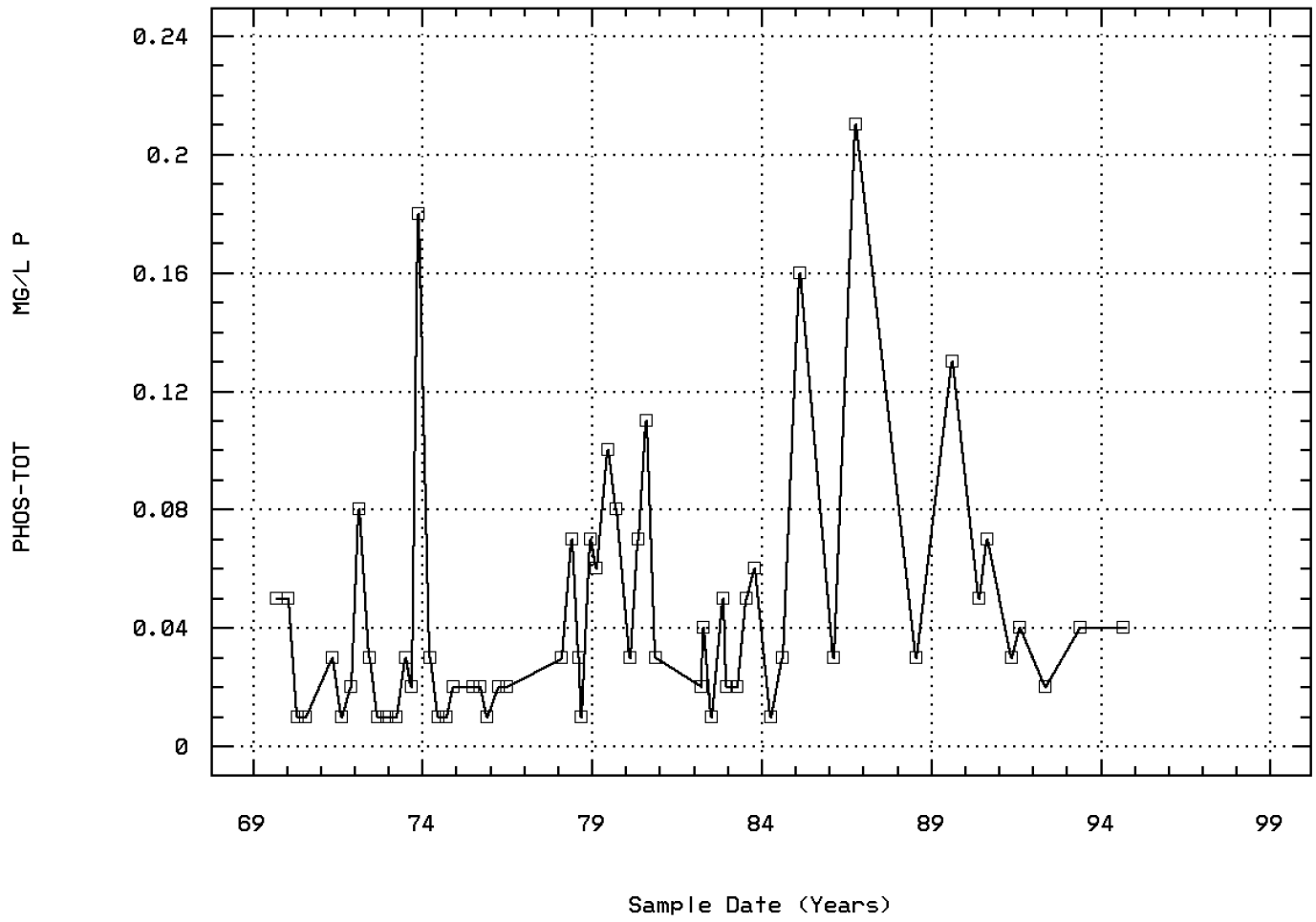
NITRATE NITROGEN, TOTAL (MG/L AS N)



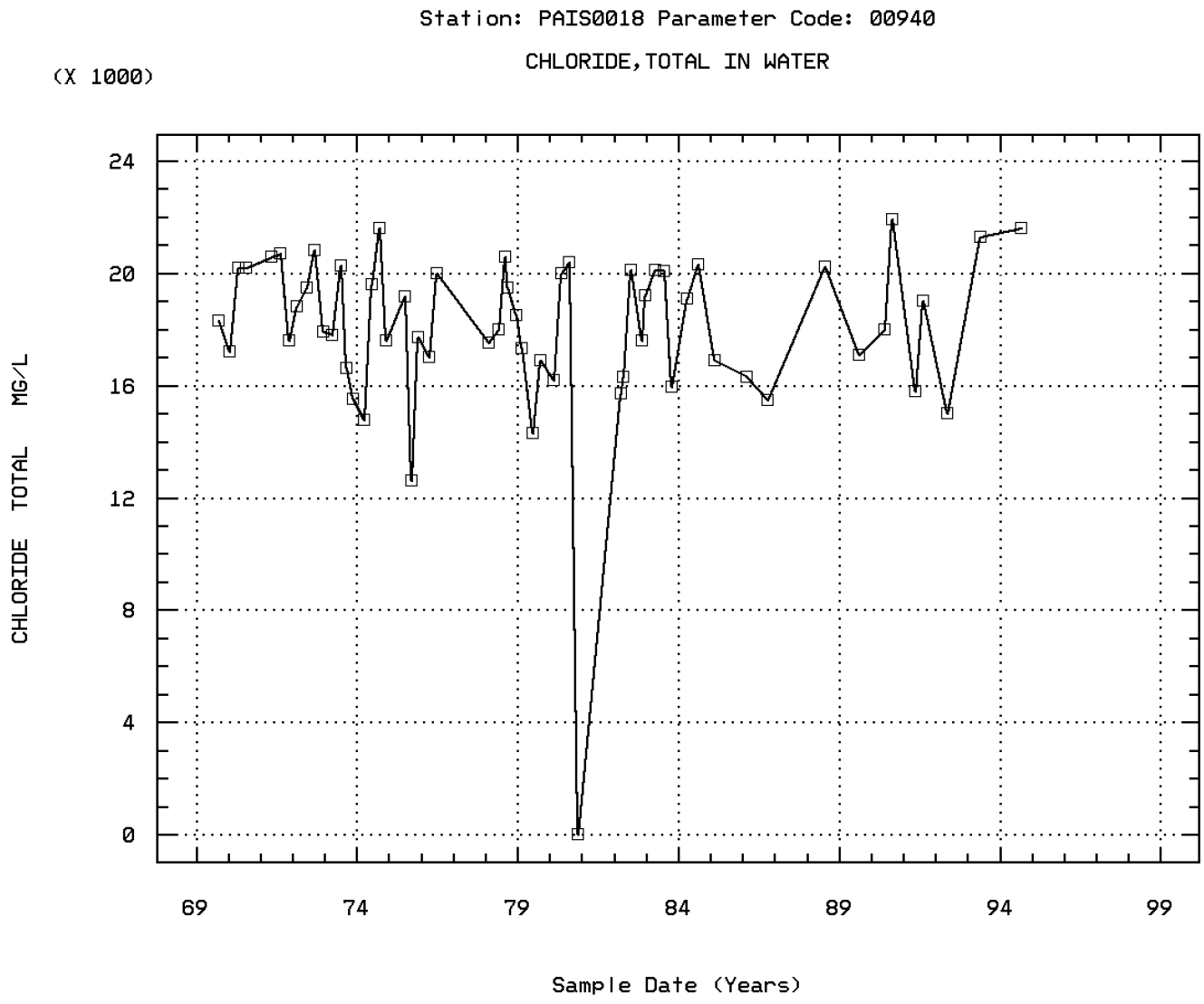
GULF OF MEXICO AT PORT MANSFIELD@ JUST

Station: PAIS0018 Parameter Code: 00665

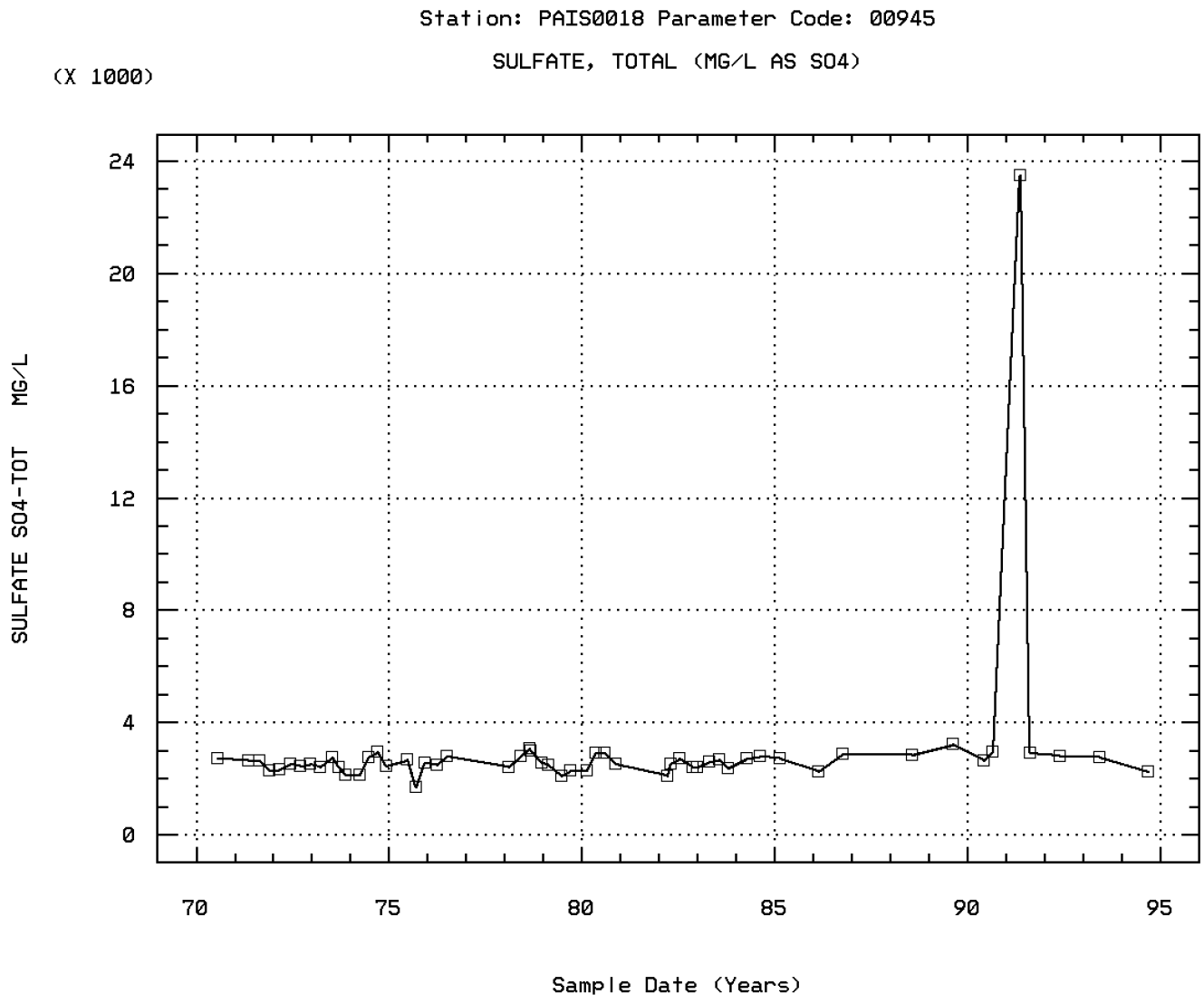
PHOSPHORUS, TOTAL (MG/L AS P)



GULF OF MEXICO AT PORT MANSFIELD@ JUST



GULF OF MEXICO AT PORT MANSFIELD@ JUST



GULF OF MEXICO AT PORT MANSFIELD@ JUST

Annual Analysis for 1969 - Station PAIS0018

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/09/69-08/30/94	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 box-and-whisker plot

Annual Analysis for 1970 - Station PAIS0018

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/09/69-08/30/94	6	1.	8.167	30.	1.	145.767	12.073	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 PAIS0018

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/09/69-08/30/94	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 box-and-whisker plot

Annual Analysis for 1972 - Station PAIS0018

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/09/69-08/30/94	4	1.	1.	1.	1.	0.	0.	**	**	**	**

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

Annual Analysis for 1973 - Station PAIS0018

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/09/69-08/30/94	4	1.	1.	1.	1.	0.	0.	**	**	**	**

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

Annual Analysis for 1974 - Station PAIS0018

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/09/69-08/30/94	7	1.	6.286	20.	1.	54.571	7.387	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 PAIS0018

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/09/69-08/30/94	8	5.5	7.125	20.	1.	52.411	7.24	**	**	**	**

** - 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 1976 - Station PAIS0018

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/09/69-08/30/94	9	10.	10.111	20.	1.	63.361	7.96	1.	1.	19.	20.

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

Annual Analysis for 1977 - Station PAIS0018

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/09/69-08/30/94	17	10.	11.941	25.	1.	67.434	8.212	1.	5.	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 1978 - Station PAIS0018

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/09/69-08/30/94	15	5.	8.	20.	1.	47.857	6.918	1.	1.	15.	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 1979 - Station PAIS0018

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/09/69-08/30/94	5	1.	6.6	20.	1.	71.3	8.444	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 PAIS0018

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/09/69-08/30/94	8	3.	6.75	20.	1.	55.643	7.459	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 PAIS0018

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/09/69-08/30/94	5	10.	10.2	20.	1.	57.7	7.596	**	**	**	**

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

Annual Analysis for 1982 - Station PAIS0018

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/09/69-08/30/94	6	1.	2.5	10.	1.	13.5	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 box-and-whisker plot

Annual Analysis for 1983 - Station PAIS0018

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/09/69-08/30/94	6	3.	5.5	15.	1.	34.3	5.857	**	**	**	**

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

Annual Analysis for 1984 - Station PAIS0018

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/09/69-08/30/94	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 box-and-whisker plot

Annual Analysis for 1985 - Station PAIS0018

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/09/69-08/30/94	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 box-and-whisker plot

Annual Analysis for 1986 - Station PAIS0018

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/09/69-08/30/94	11	10.	12.091	30.	1.	94.491	9.721	1.	1.	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 1988 - Station PAIS0018

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/09/69-08/30/94	4	7.5	9.	20.	1.	67.333	8.206	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 PAIS0018

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/09/69-08/30/94	4	12.5	11.5	20.	1.	65.667	8.103	**	**	**	**

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

Annual Analysis for 1990 - Station PAIS0018

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/09/69-08/30/94	9	20.	18.	40.	1.	185.75	13.629	1.	5.5	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

Annual Analysis for 1991 - Station PAIS0018

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/09/69-08/30/94	6	10.	10.333	20.	1.	72.267	8.501	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 PAIS0018

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/09/69-08/30/94	6	7.5	8.667	20.	1.	60.267	7.763	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 PAIS0018

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/09/69-08/30/94	4	15.	15.25	30.	1.	156.917	12.527	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 PAIS0018

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/09/69-08/30/94	5	10.	10.2	20.	1.	57.7	7.596	**	**	**	**

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

Seasonal Analysis for Season #1: 5/01 to 10/31 - Station PAIS0018

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/09/69-08/30/94	107	10.	9.551	40.	1.	81.816	9.045	1.	1.	15.	20.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/09/69-08/30/94	72	27.55	26.838	30.6	23.	4.226	2.056	23.7	24.925	28.45	29.07
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	09/09/69-02/19/85	43	81.9	80.507	87.	73.	14.976	3.87	73.98	77.	83.8	84.2
00070	TURBIDITY, (JACKSON CANDLE UNITS)	09/09/69-06/20/77	14	8.	6.143	10.	0.	16.747	4.092	0.	1.5	10.	10.
00077	TRANSPARENCY, SECCHI DISC (INCHES)	06/26/75-07/20/88	9	48.	53.444	98.	22.	736.778	27.144	22.	31.	77.	98.
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/23/70-08/30/94	69	52500.	51299.42	64260.	30000.	38267576.13	6186.079	40100.	48750.	55500.	57500.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/09/69-10/09/86	25	76160.	69968.28	80136.	43400.	121094173.627	11004.28	51440.	63616.	78036.	79427.4
00300p	OXYGEN, DISSOLVED MG/L	09/09/69-08/30/94	66	6.45	6.488	9.3	3.	1.204	1.097	5.3	5.8	7.3	7.9
00400p	PH (STANDARD UNITS)	10/07/70-08/30/94	59	8.1	8.025	8.7	6.8	0.123	0.351	7.6	7.9	8.2	8.4
00400p	CONVERTED PH (STANDARD UNITS)	10/07/70-08/30/94	59	8.1	7.826	8.7	6.8	0.163	0.404	7.6	7.9	8.2	8.4
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/07/70-08/30/94	59	0.008	0.015	0.158	0.002	0.001	0.024	0.004	0.006	0.013	0.025
00403	PH, LAB, STANDARD UNITS SU	09/09/69-10/09/86	25	8.3	8.248	8.9	7.4	0.073	0.269	7.9	8.2	8.3	8.54
00403	CONVERTED PH, LAB, STANDARD UNITS	09/09/69-10/09/86	25	8.3	8.147	8.9	7.4	0.083	0.288	7.9	8.2	8.3	8.54
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/09/69-10/09/86	25	0.005	0.007	0.04	0.001	0.	0.007	0.003	0.005	0.006	0.013
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	02/06/78-08/30/94	21	120.	121.857	169.	105.	197.829	14.065	106.8	114.	126.	138.8
00480	SALINITY - PARTS PER THOUSAND	07/20/88-08/30/94	25	33.	34.412	38.4	30.	8.565	2.927	30.06	32.6	36.75	38.4
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/09/69-08/30/94	34	13.5	23.724	142.	0.6	761.302	27.592	5.	10.	31.	53.5
00535p	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	01/13/70-08/30/94	31	5.	8.839	36.	1.	70.806	8.415	2.4	4.	10.	27.2
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/09/69-08/30/94	34	0.035	0.062	0.44	0.005	0.006	0.078	0.01	0.01	0.1	0.1
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/09/69-08/30/94	34 ##	0.013	0.018	0.05	0.005	0.	0.013	0.005	0.005	0.03	0.03
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	09/09/69-02/19/85	24	0.09	0.114	0.34	0.03	0.008	0.09	0.03	0.04	0.173	0.275
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/11/73-02/19/85	16	0.03	0.058	0.21	0.015	0.003	0.058	0.015	0.03	0.082	0.189
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	09/09/69-08/30/94	34	0.03	0.046	0.21	0.01	0.002	0.042	0.01	0.02	0.063	0.105
00671p	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/11/73-08/30/94	26	0.01	0.024	0.1	0.005	0.001	0.023	0.005	0.01	0.03	0.063
00680p	CARBON, TOTAL ORGANIC (MG/L AS C)	06/19/74-08/30/94	25	2.	2.14	10.	0.5	4.365	2.089	0.5	0.5	3.	4.4
00940p	CHLORIDE,TOTAL IN WATER MG/L	09/09/69-08/30/94	34	19810.	18866.853	21900.	12600.	5416942.19	2327.433	15235.	17050.	20450.	21450.
00945p	SULFATE, TOTAL (MG/L AS SO4)	07/23/70-08/30/94	33	2760.	3309.182	23500.	1680.	13230255.466	3637.342	2254.	2570.	2895.	3038.
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/19/79-08/30/94	13 ##	3.5	4.	5.	2.5	0.917	0.957	2.5	3.5	5.	5.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/19/79-08/30/94	13 ##	0.544	0.59	0.699	0.398	0.012	0.111	0.398	0.544	0.699	0.699
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			3.887								
32211p	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	02/23/72-08/30/94	29	4.	4.499	16.1	0.5	12.029	3.468	1.	2.25	5.	9.
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	02/06/78-08/30/94	21 ##	1.	2.217	6.95	0.	4.215	2.053	0.5	1.	3.9	6.2

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

Seasonal Analysis for Season #2: 11/01 to 4/30 - Station PAIS0018

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/09/69-08/30/94	49	1.	7.061	25.	1.	57.975	7.614	1.	1.	12.5	20.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/09/69-08/30/94	36	19.1	17.864	25.7	10.	18.602	4.313	10.67	15.05	20.75	23.06
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	09/09/69-02/19/85	33	67.6	65.152	78.3	49.5	52.804	7.267	52.98	60.6	69.9	73.48
00070	TURBIDITY, (JACKSON CANDLE UNITS)	09/09/69-06/20/77	9	10.	11.667	50.	0.	225.	15.	0.	2.5	10.	50.
00077	TRANSPARENCY, SECCHI DISC (INCHES)	06/26/75-07/20/88	6	42.	45.	72.	30.	212.4	14.574	**	**	**	**
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/23/70-08/30/94	32	46000.	45118.75	52000.	36900.	17083508.065	4133.22	37510.	42250.	48000.	49620.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/09/69-10/09/86	23	65464.	62355.	82656.	43100.	109496744.091	10464.069	45616.	51000.	69440.	73897.6
00300p	OXYGEN, DISSOLVED MG/L	09/09/69-08/30/94	35	7.9	8.163	10.7	5.	1.483	1.218	6.86	7.3	9.1	9.88
00400p	PH (STANDARD UNITS)	10/07/70-08/30/94	32	8.3	8.197	8.8	7.6	0.093	0.305	7.7	7.85	8.4	8.5
00400p	CONVERTED PH (STANDARD UNITS)	10/07/70-08/30/94	32	8.3	8.086	8.8	7.6	0.106	0.326	7.7	7.85	8.4	8.5
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/07/70-08/30/94	32	0.005	0.008	0.025	0.002	0.	0.006	0.003	0.004	0.014	0.02
00403	PH, LAB, STANDARD UNITS SU	09/09/69-10/09/86	23	8.1	8.157	8.6	7.8	0.033	0.183	7.94	8.	8.2	8.46
00403	CONVERTED PH, LAB, STANDARD UNITS	09/09/69-10/09/86	23	8.1	8.122	8.6	7.8	0.035	0.186	7.94	8.	8.2	8.46
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/09/69-10/09/86	23	0.008	0.008	0.016	0.003	0.	0.003	0.003	0.006	0.01	0.012
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	02/06/78-08/30/94	13	121.	128.462	147.	114.	158.603	12.594	114.8	119.	142.	146.6
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/09/69-08/30/94	24	23.	38.	118.	5.	1133.391	33.666	5.	14.5	58.25	103.
00535p	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	01/13/70-08/30/94	24	10.	12.417	45.	3.	92.254	9.605	4.5	5.5	12.75	27.5
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/09/69-08/30/94	24	0.075	0.078	0.21	0.01	0.004	0.065	0.01	0.025	0.1	0.2
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/09/69-08/30/94	24	0.03	0.028	0.08	0.01	0.	0.016	0.015	0.015	0.03	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

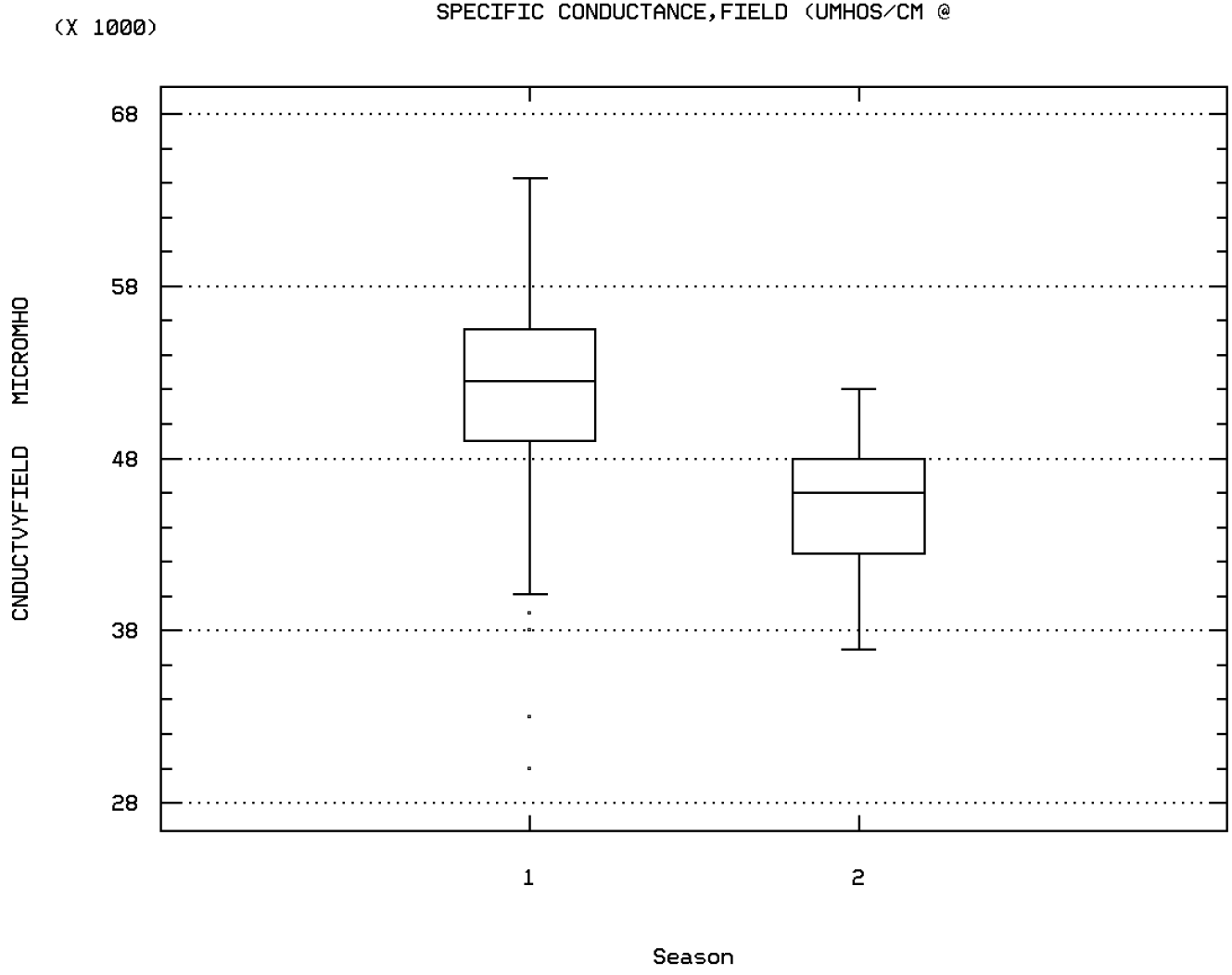
Seasonal Analysis for Season #2: 11/01 to 4/30 - Station PAIS0018

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	09/09/69-02/19/85	23	0.09	0.129	0.55	0.03	0.019	0.137	0.03	0.05	0.15	0.39
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/11/73-02/19/85	17	0.03	0.089	0.52	0.015	0.02	0.142	0.015	0.015	0.06	0.4
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	09/09/69-08/30/94	24	0.03	0.042	0.18	0.01	0.002	0.044	0.01	0.02	0.05	0.12
00671p	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/11/73-08/30/94	18	0.01	0.029	0.17	0.005	0.002	0.045	0.005	0.005	0.023	0.125
00680p	CARBON, TOTAL ORGANIC (MG/L AS C)	06/19/74-08/30/94	16	2.5	3.375	10.	1.	6.017	2.453	1.7	2.	3.	8.6
00940p	CHLORIDE,TOTAL IN WATER MG/L	09/09/69-08/30/94	24	17550.	16785.533	20200.	0.8	14623156.601	3824.024	15150.	16300.5	18350.	19650.
00945p	SULFATE, TOTAL (MG/L AS SO4)	07/23/70-08/30/94	22	2420.	2415.455	2700.	2100.	28016.45	167.381	2140.	2292.5	2527.5	2670.
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/19/79-08/30/94	9 ##	5.	4.889	12.	0.5	9.424	3.07	0.5	3.25	5.	12.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/19/79-08/30/94	9 ##	0.699	0.588	1.079	-0.301	0.138	0.372	-0.301	0.511	0.699	1.079
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			3.875								
32211p	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	02/23/72-08/30/94	20	4.	6.225	40.	0.5	76.223	8.731	1.	2.125	6.75	14.5
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	02/06/78-08/30/94	12 ##	1.	1.542	2.5	0.5	0.748	0.865	0.5	1.	2.5	2.5

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

Station: PAIS0018 Parameter Code: 00094

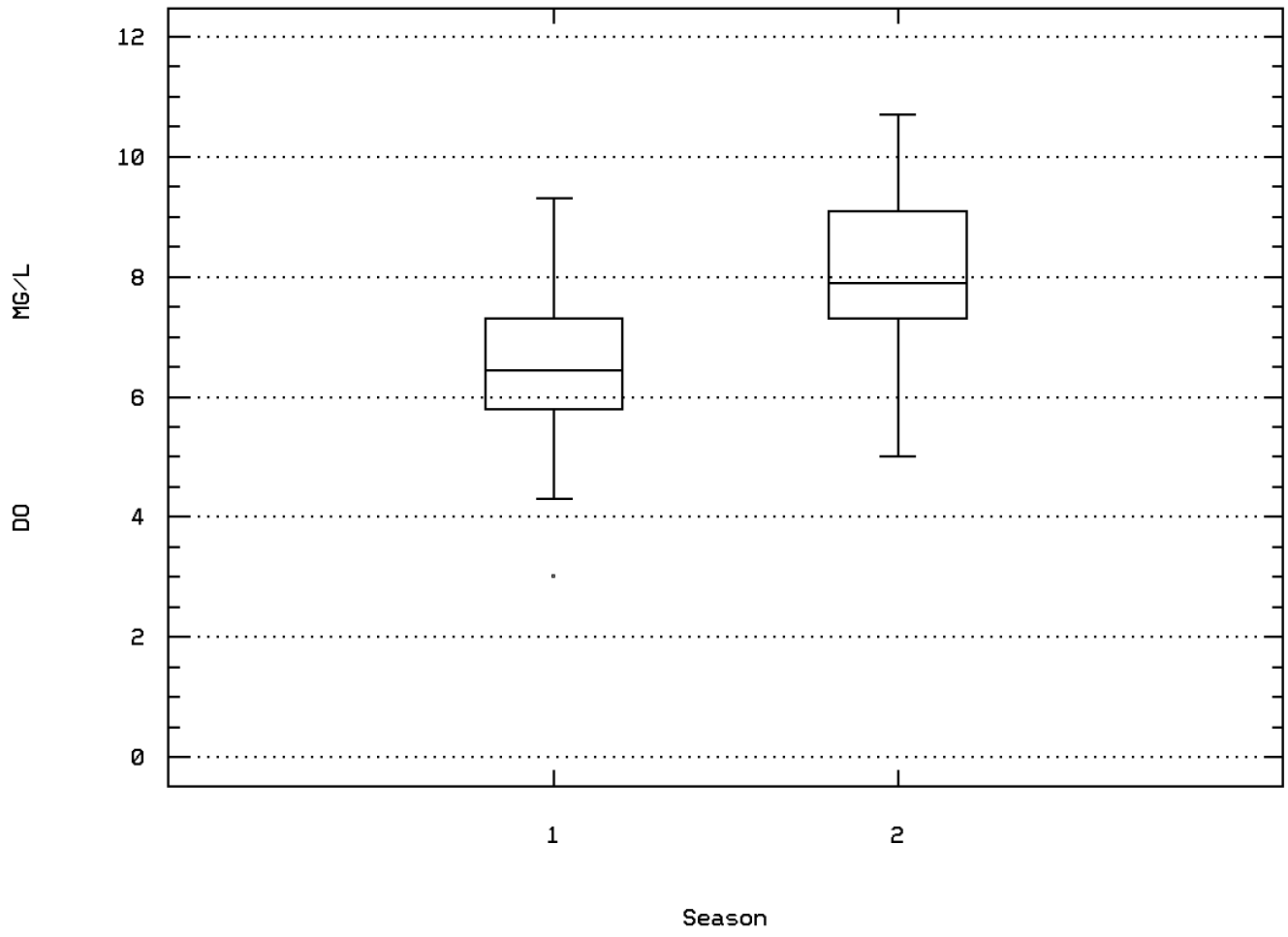
SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @



GULF OF MEXICO AT PORT MANSFIELD@ JUST

Station: PAIS0018 Parameter Code: 00300

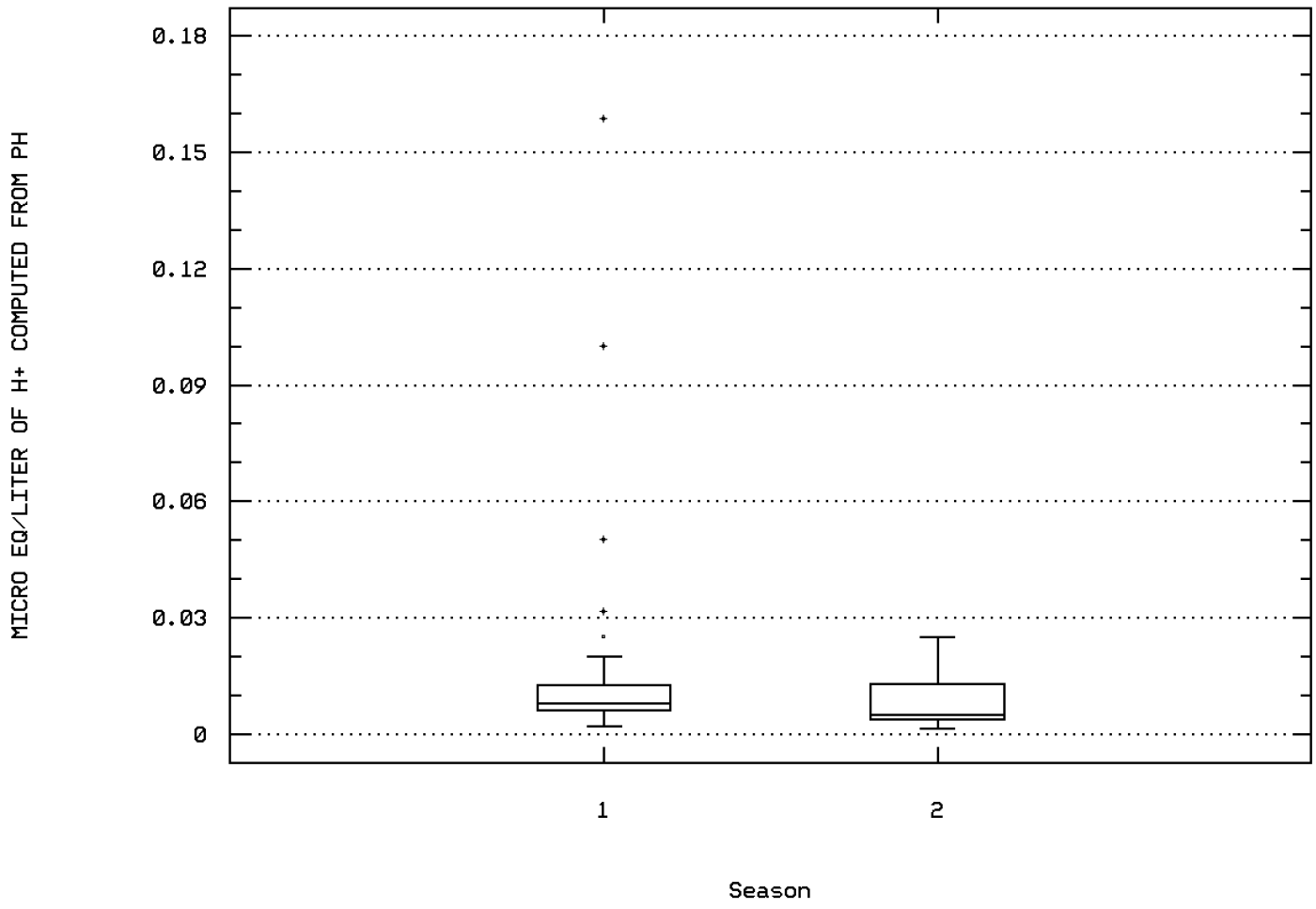
OXYGEN, DISSOLVED



GULF OF MEXICO AT PORT MANSFIELD@ JUST

Station: PAIS0018 Parameter Code: 00400

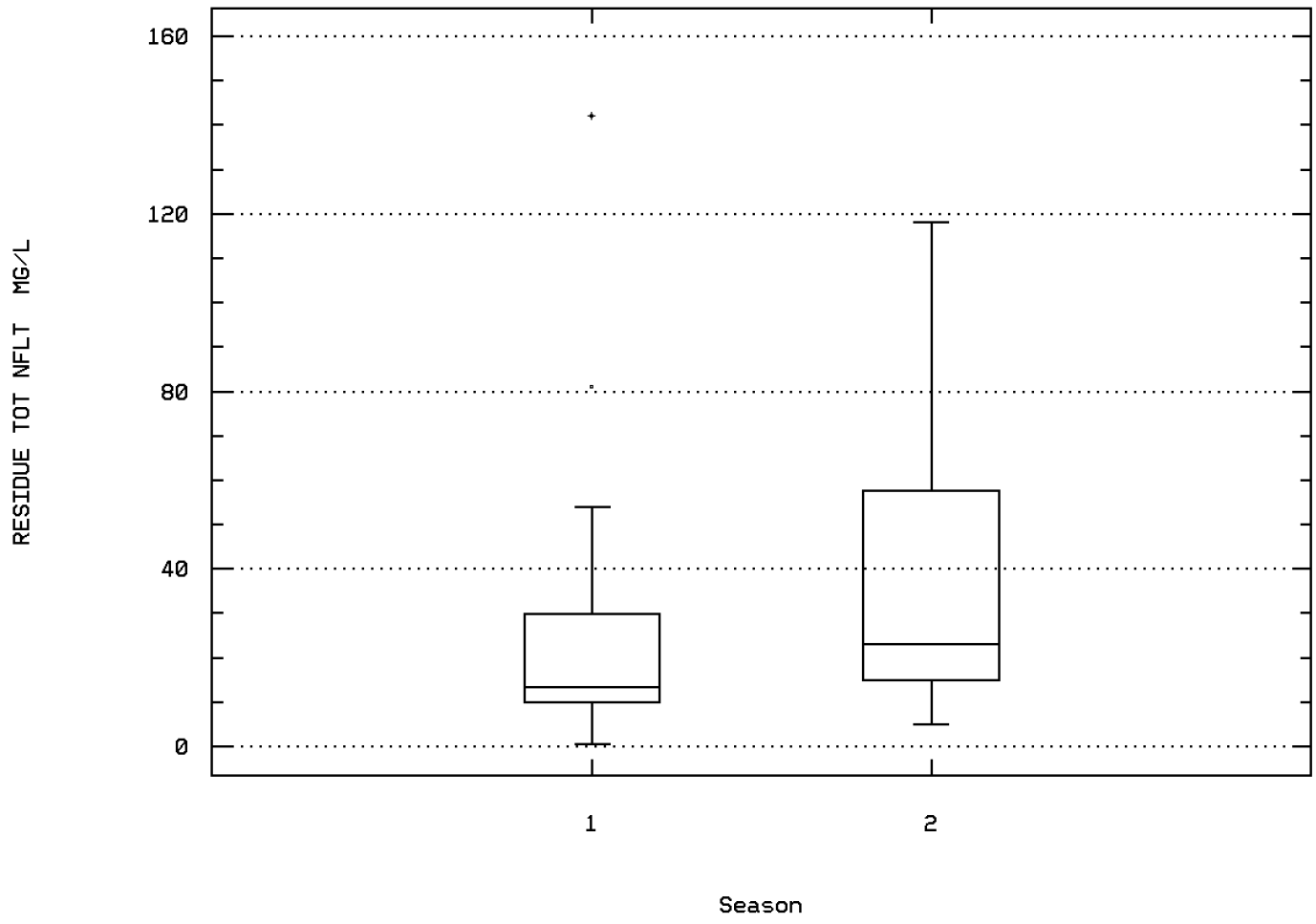
MICRO EQ/LITER OF H+ COMPUTED FROM PH



GULF OF MEXICO AT PORT MANSFIELD@ JUST

Station: PAIS0018 Parameter Code: 00530

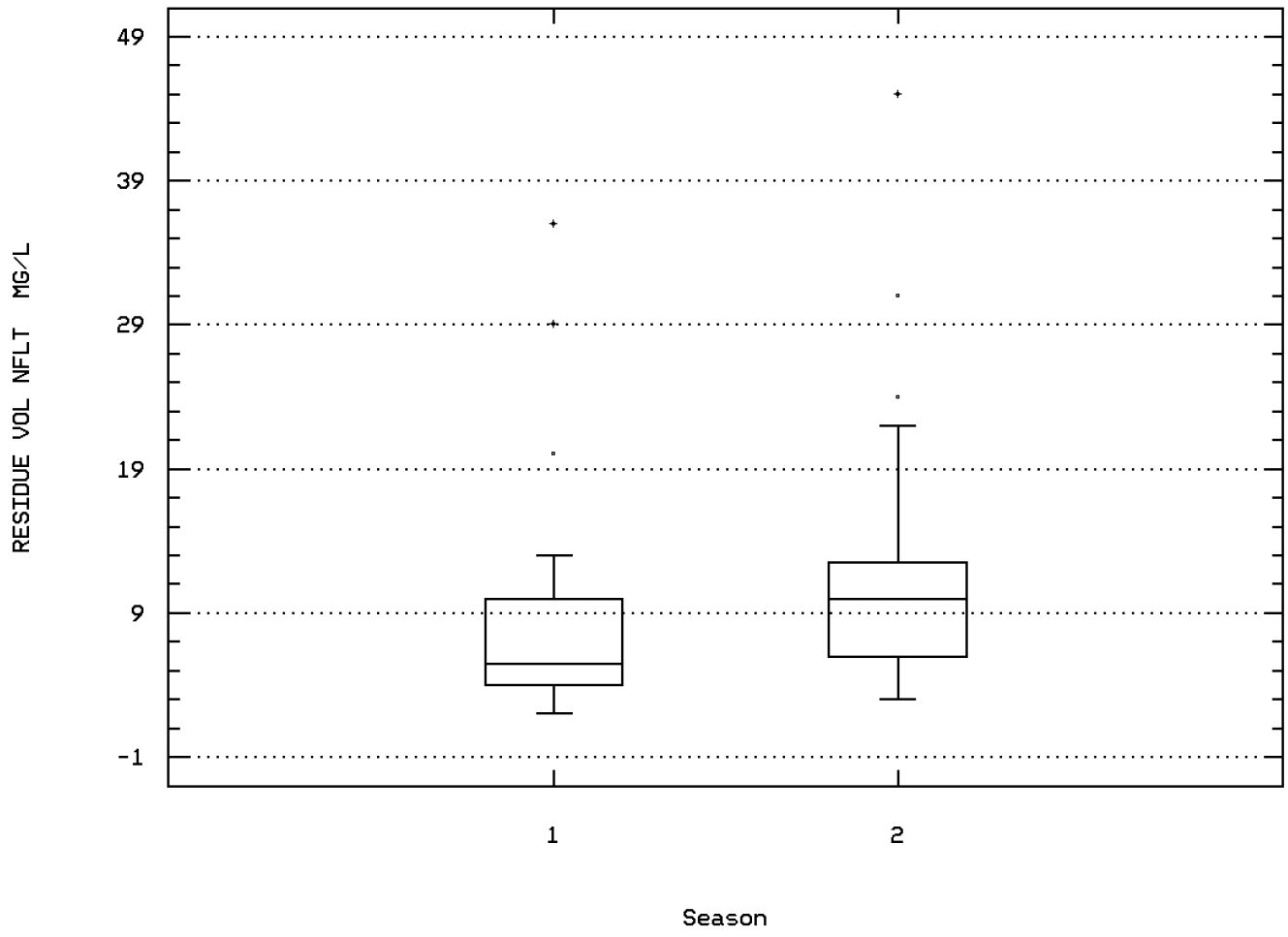
RESIDUE, TOTAL NONFILTRABLE (MG/L)



GULF OF MEXICO AT PORT MANSFIELD@ JUST

Station: PAIS0018 Parameter Code: 00535

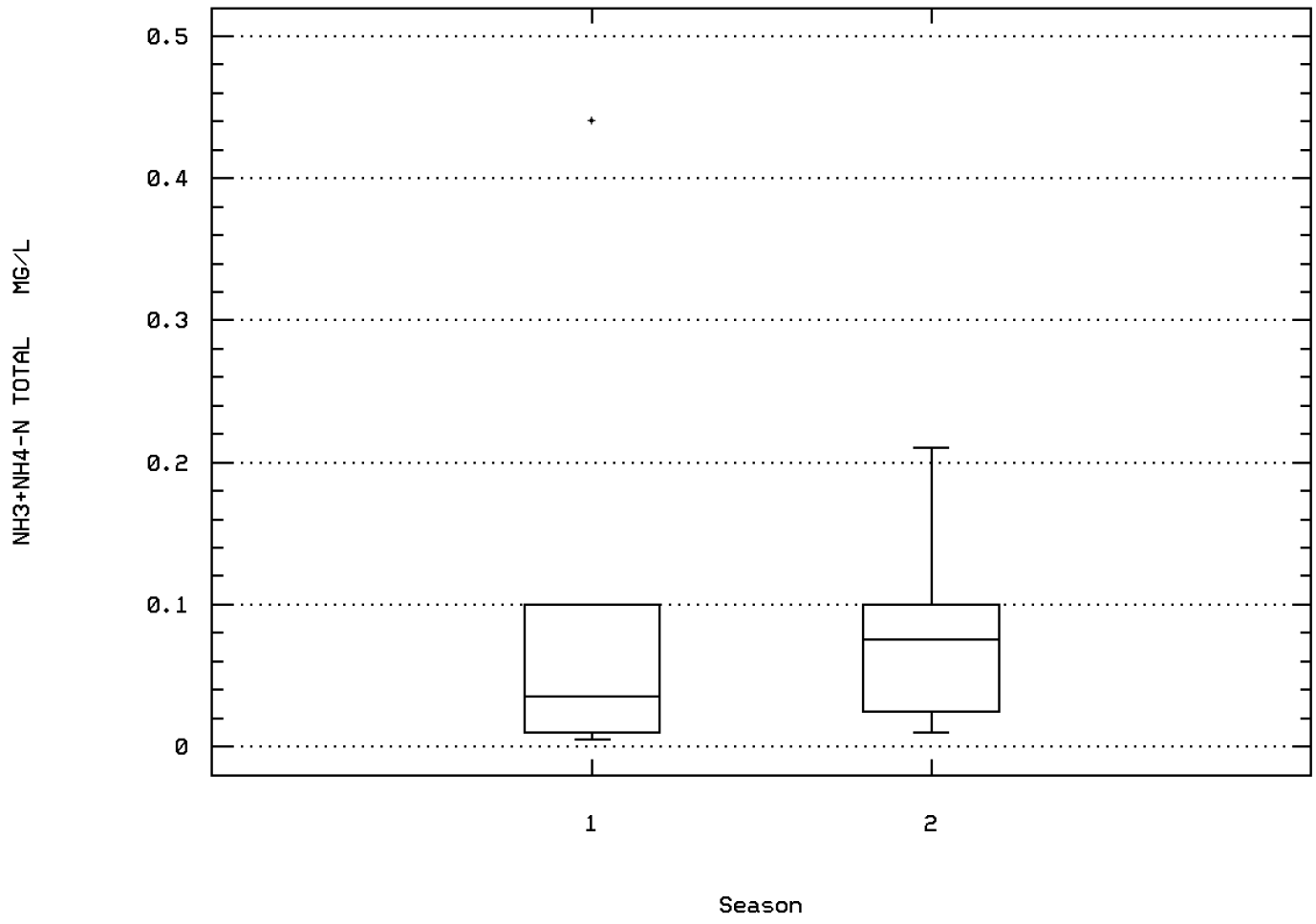
RESIDUE, VOLATILE NONFILTRABLE (MG/L)



GULF OF MEXICO AT PORT MANSFIELD@ JUST

Station: PAIS0018 Parameter Code: 00610

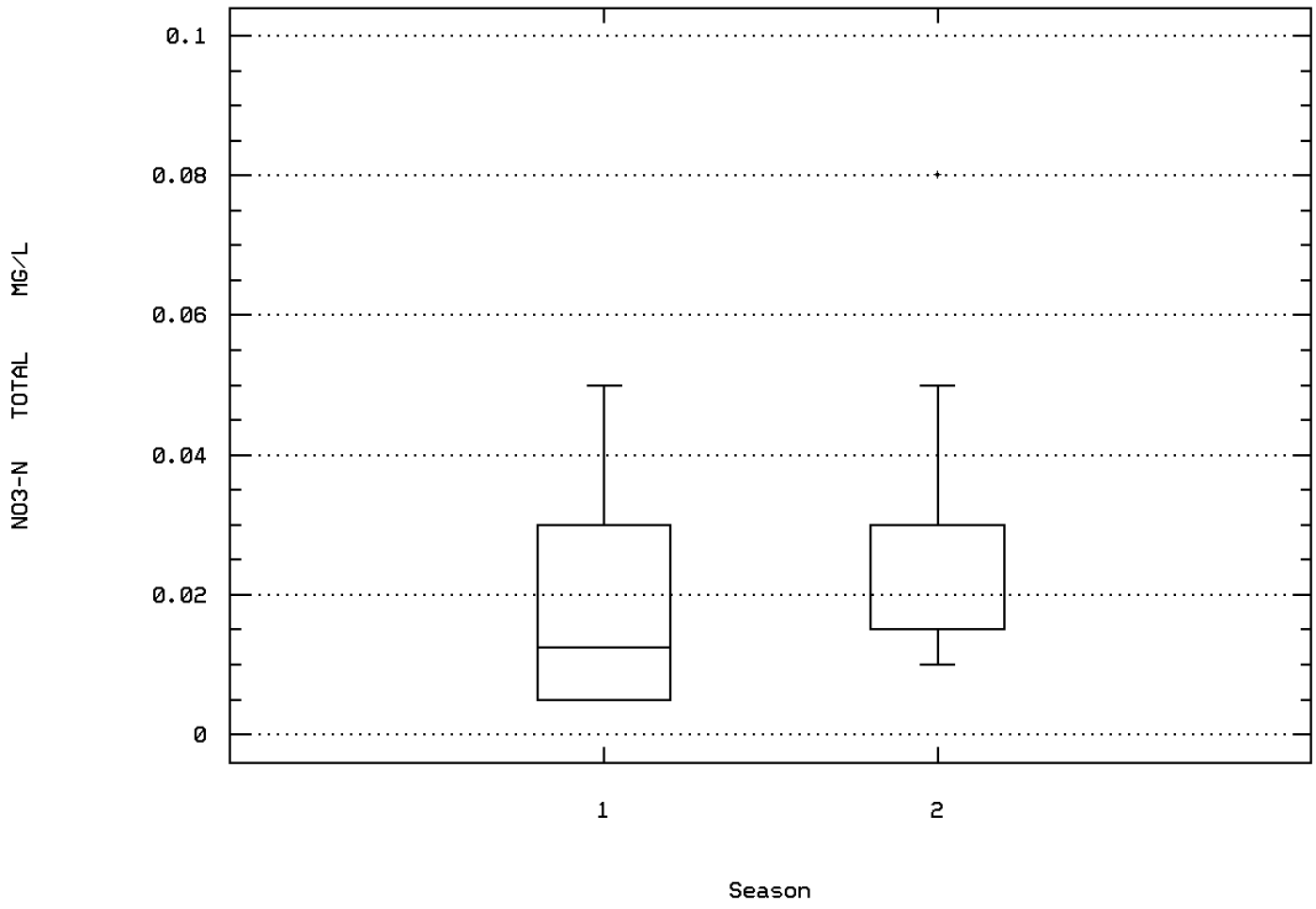
NITROGEN, AMMONIA, TOTAL (MG/L AS N)



GULF OF MEXICO AT PORT MANSFIELD@ JUST

Station: PAIS0018 Parameter Code: 00620

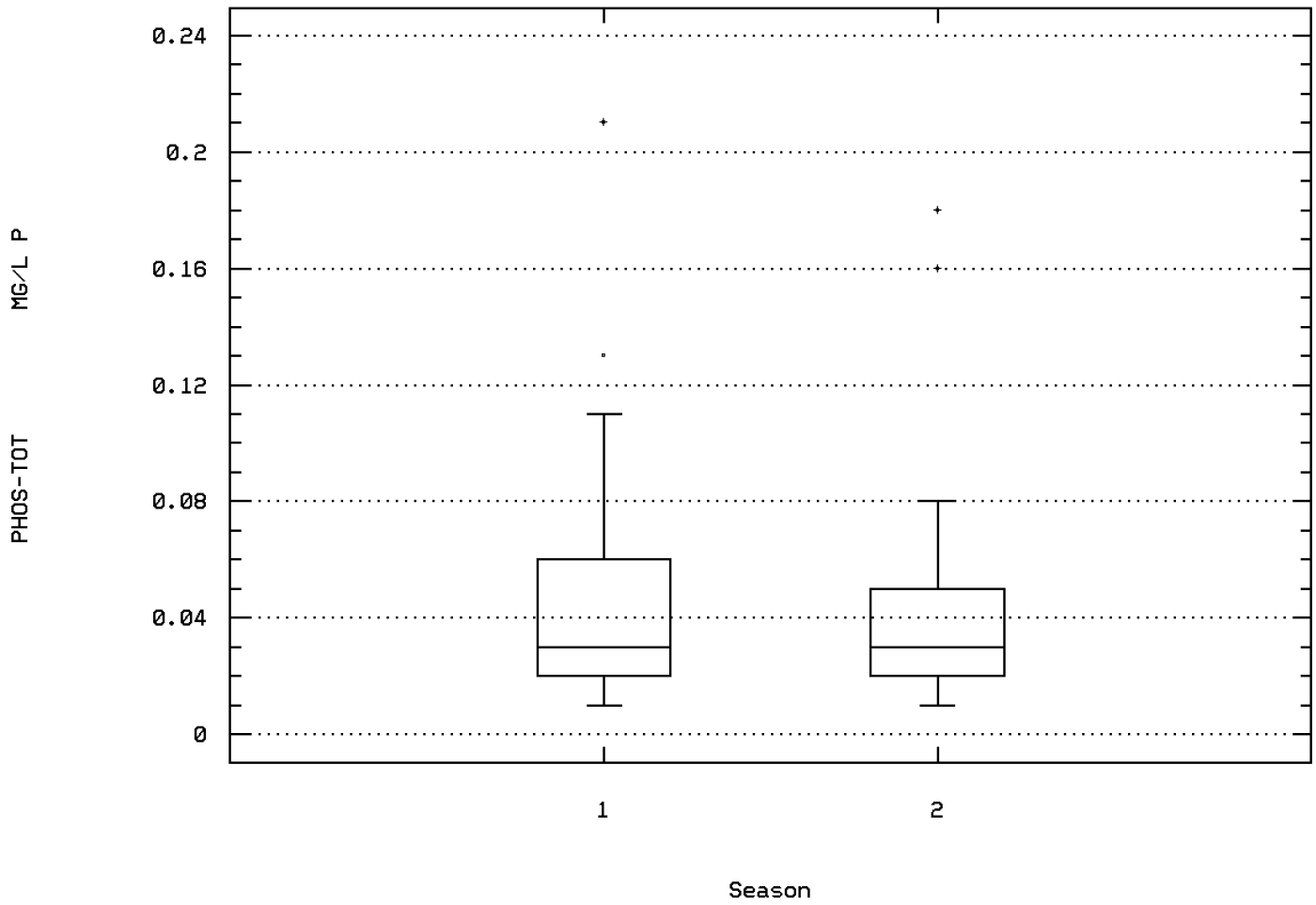
NITRATE NITROGEN, TOTAL (MG/L AS N)



GULF OF MEXICO AT PORT MANSFIELD@ JUST

Station: PAIS0018 Parameter Code: 00665

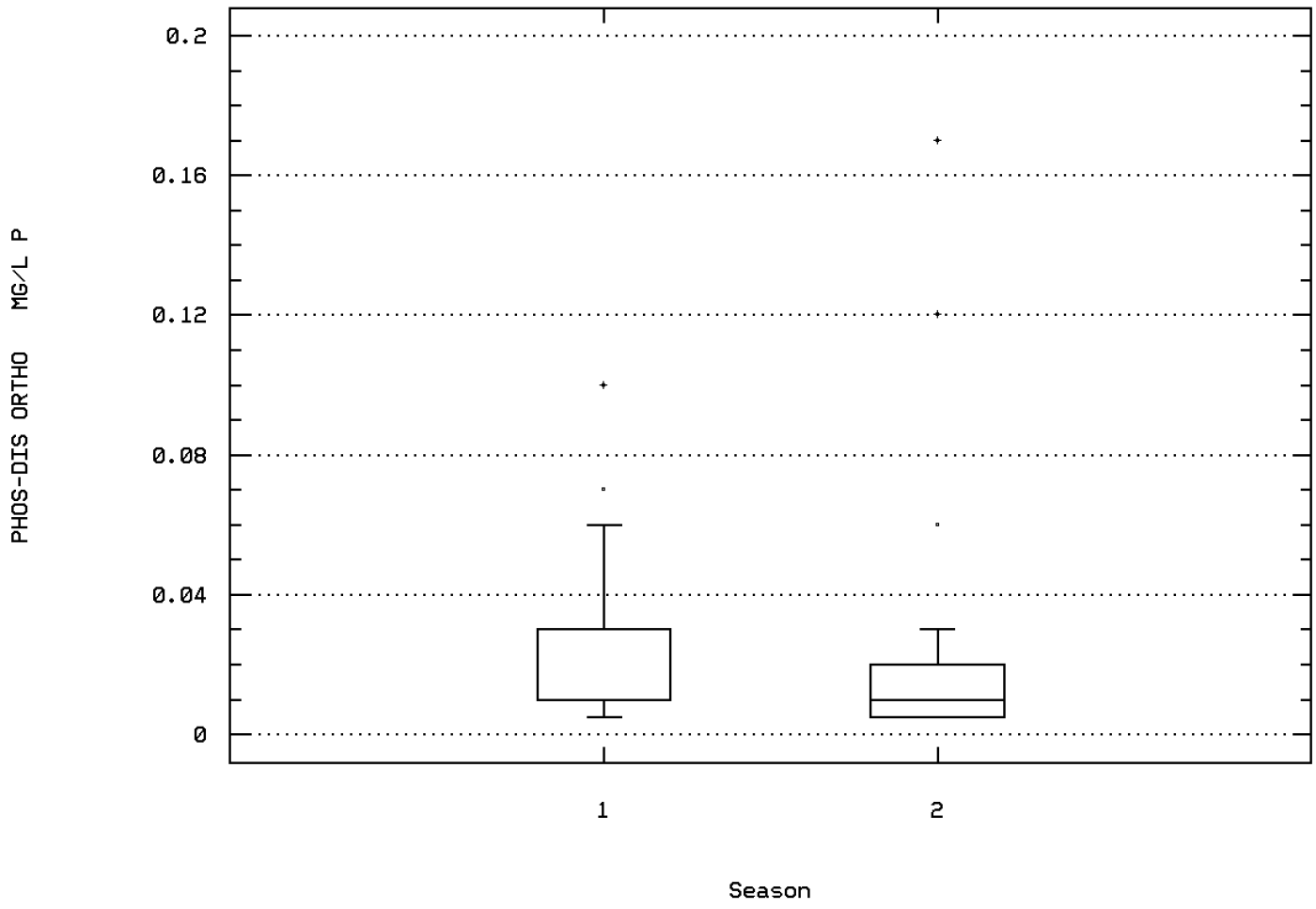
PHOSPHORUS, TOTAL (MG/L AS P)



GULF OF MEXICO AT PORT MANSFIELD@ JUST

Station: PAIS0018 Parameter Code: 00671

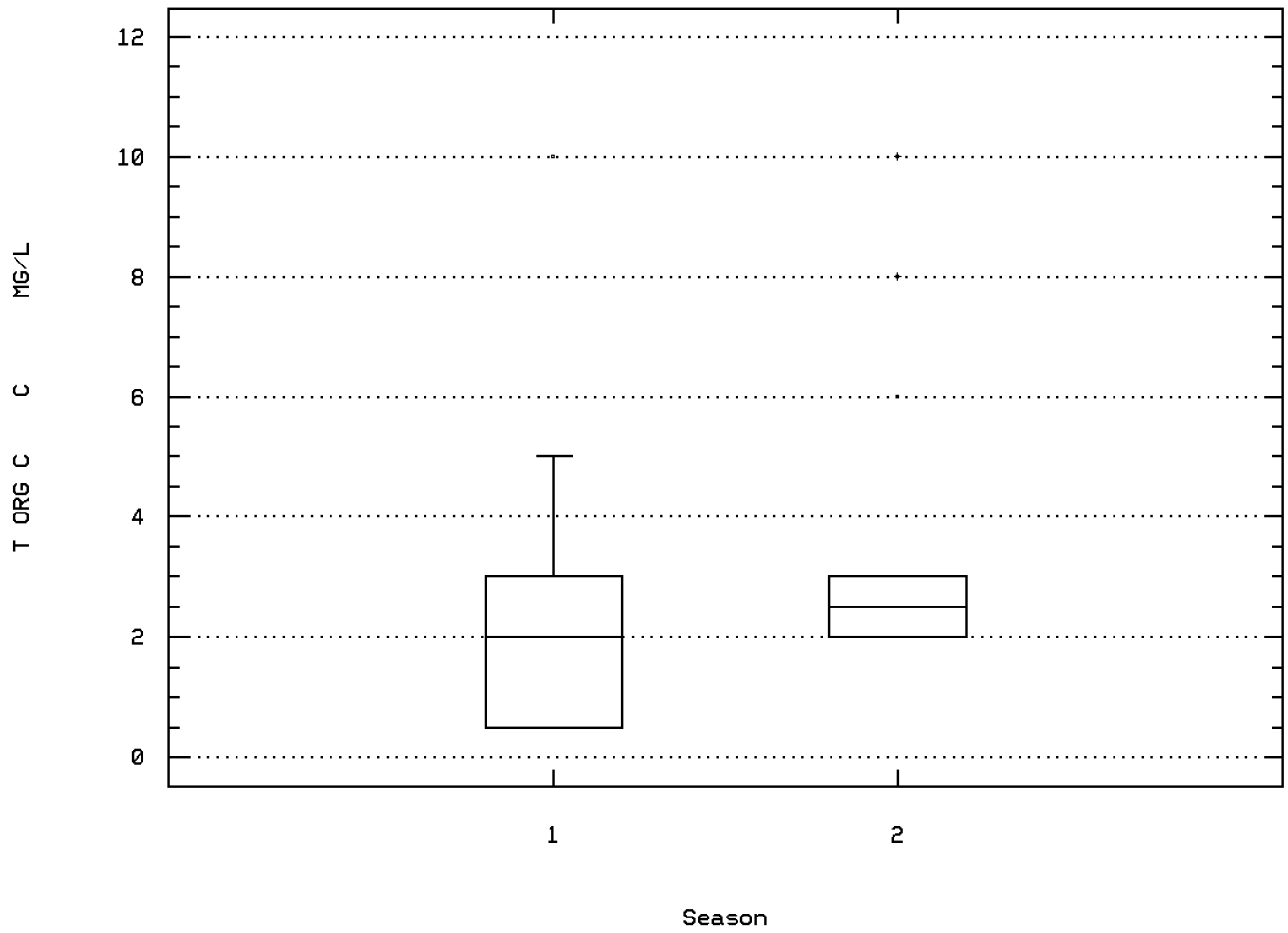
PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (M



GULF OF MEXICO AT PORT MANSFIELD@ JUST

Station: PAIS0018 Parameter Code: 00680

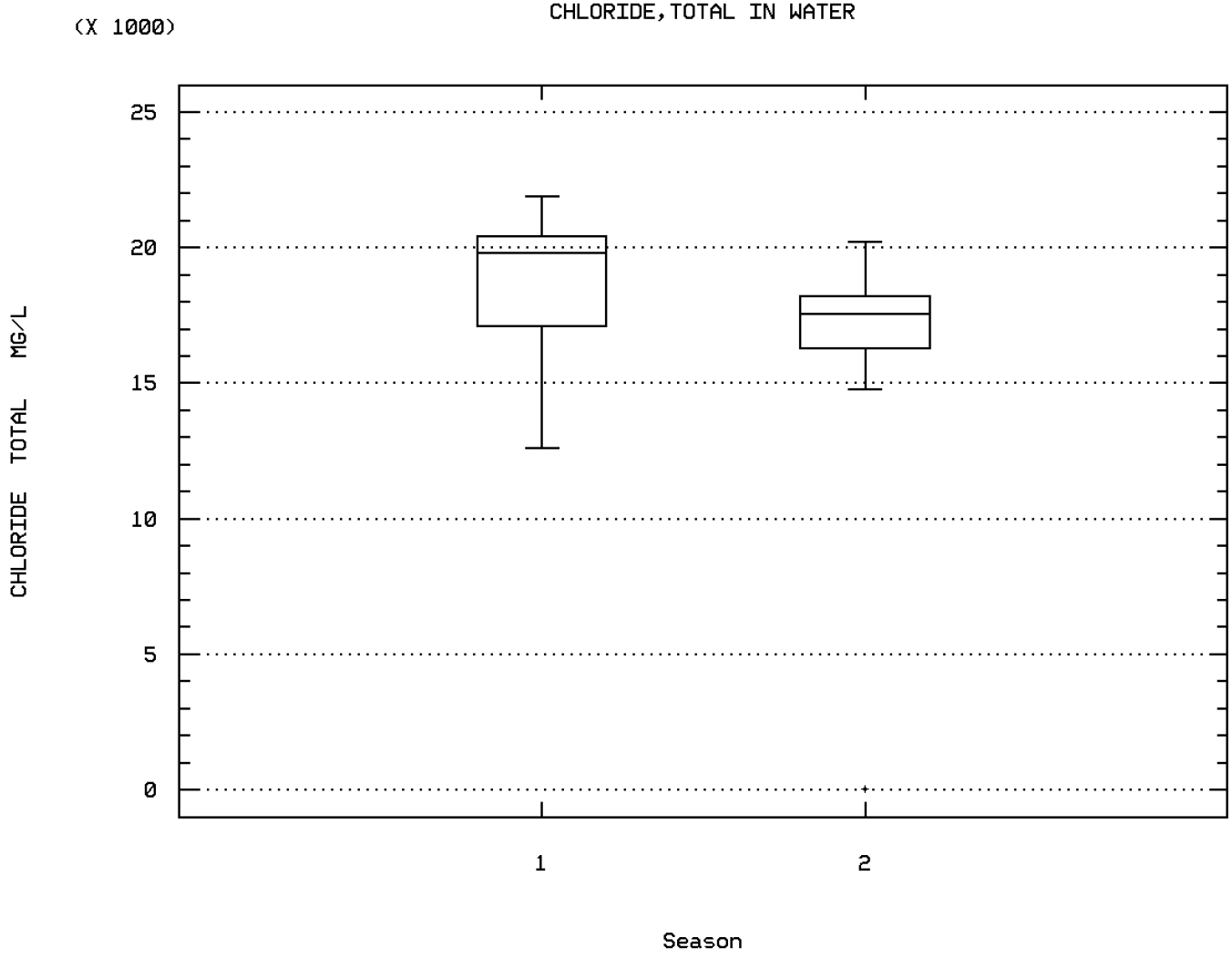
CARBON, TOTAL ORGANIC (MG/L AS C)



GULF OF MEXICO AT PORT MANSFIELD@ JUST

Station: PAIS0018 Parameter Code: 00940

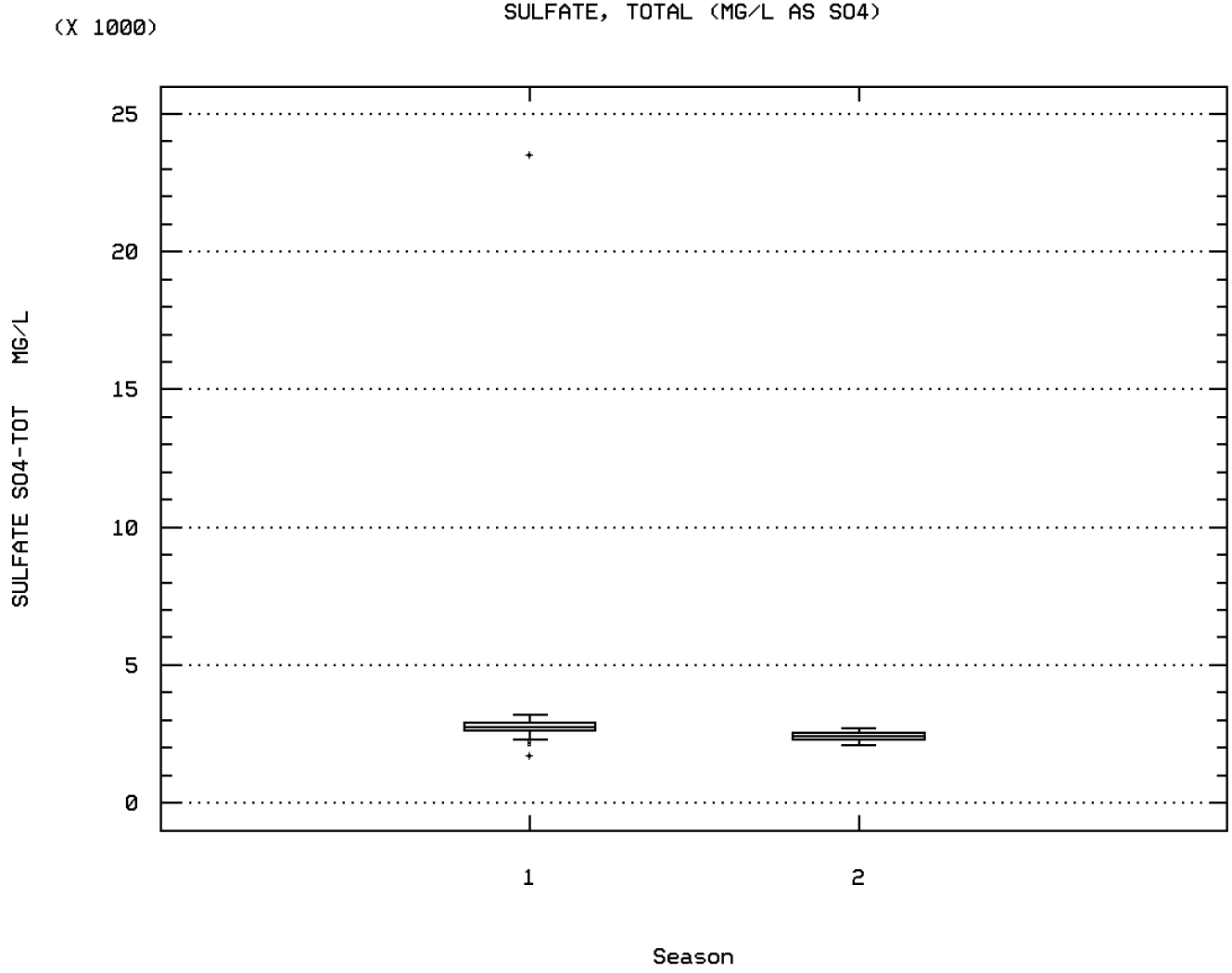
CHLORIDE,TOTAL IN WATER



GULF OF MEXICO AT PORT MANSFIELD@ JUST

Station: PAIS0018 Parameter Code: 00945

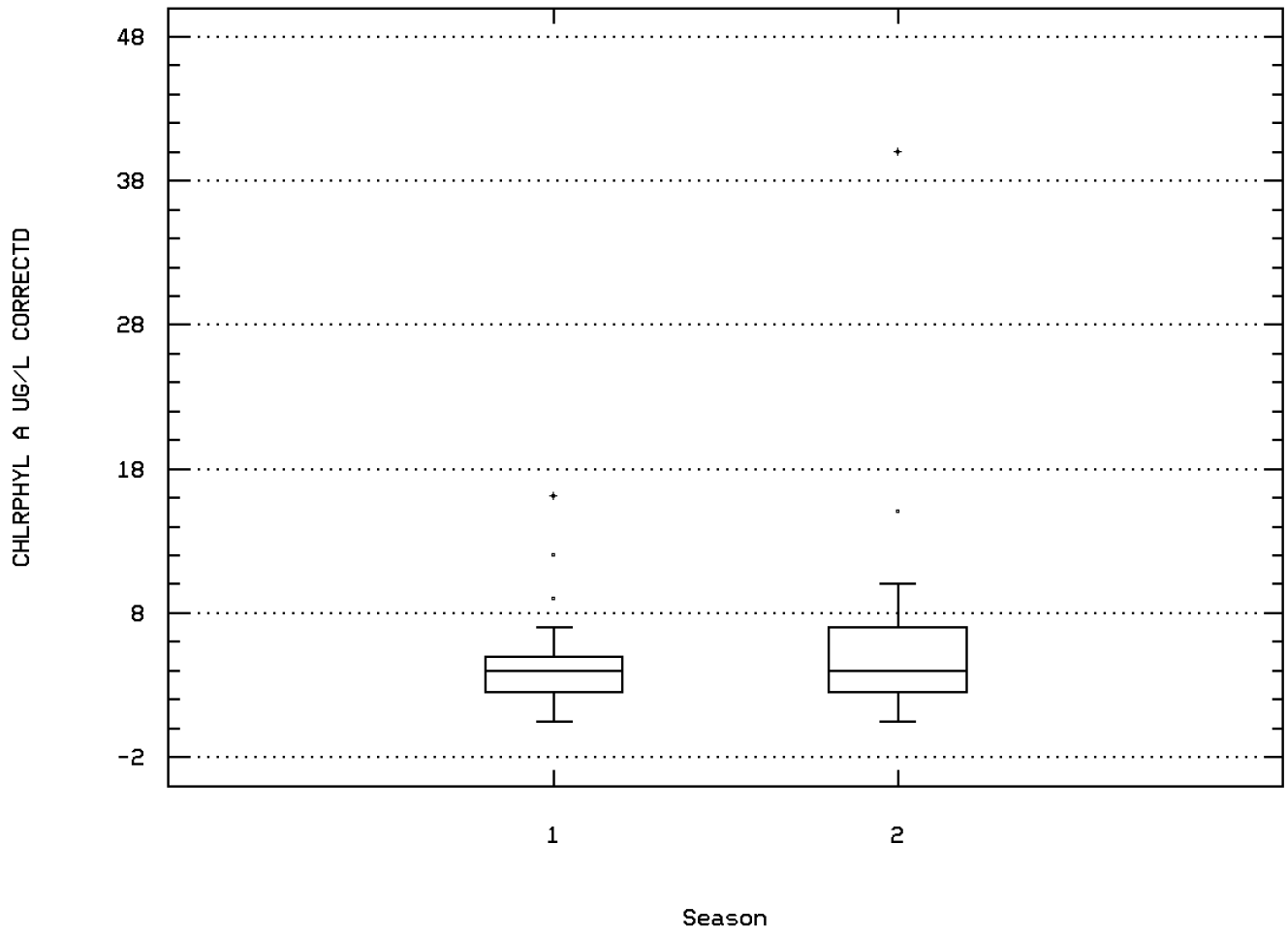
SULFATE, TOTAL (MG/L AS SO4)



GULF OF MEXICO AT PORT MANSFIELD@ JUST

Station: PAIS0018 Parameter Code: 32211

CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC A



GULF OF MEXICO AT PORT MANSFIELD@ JUST

Station Inventory for Station: PAIS0019

NPS Station ID: PAIS0019
LAT/LON: 26.566670/ -97.400004
Agency: 21TXWQB
Date Created: 07/23/94
Location: LAGUNA MADRE AT GIWW
FIPS State/County: 48489 TEXAS/WILLACY
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): 13448 /2491.0500 /2491.5000
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110207
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin: Bays and Estuaries
ECO Region: 34M
RF1 Index: 12110207
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
LAGUNA MADRE INTERSECTION OF INTRACOASTAL CANAL AND PORT MANSFIELD CHAN EL

Parameter Inventory for Station: PAIS0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/09/69-07/16/96	260	5.	5.112	15.	0.	19.814	4.451	1.	1.	10.	10.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/09/69-07/16/96	155	25.4	23.983	33.9	8.2	29.827	5.461	15.38	21.1	28.7	29.4
00011p	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	09/09/69-10/09/85	89	75.9	74.797	93.	49.5	105.252	10.259	57.	69.8	83.6	85.5
00070	TURBIDITY, (JACKSON CANDLE UNITS)	09/09/69-02/12/80	25	10.	15.24	80.	0.	300.273	17.328	0.	5.	24.	33.8
00077	TRANSPARENCY, SECCHI DISC (INCHES)	09/18/75-12/06/88	35	28.	28.229	60.	12.	87.887	9.375	16.2	23.	32.	39.
00078	TRANSPARENCY, SECCHI DISC (METERS)	08/17/89-07/16/96	19	0.61	0.716	1.5	0.2	0.099	0.315	0.38	0.58	0.8	1.4
00080	COLOR (PLATINUM-COBALT UNITS)	10/07/70-10/07/70	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/23/70-07/16/96	162	50000.	48797.84	65500.	11625.	84564696.856	9195.907	37240.	44585.	54350.	59640.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/09/69-07/07/87	56	64596.	61390.857	91280.	33200.	218516776.125	14782.313	40320.	48040.	73920.	79850.4
00300p	OXYGEN, DISSOLVED MG/L	09/09/69-07/16/96	156	6.8	6.844	11.5	1.5	2.19	1.48	5.17	5.925	7.675	8.63
00310	BOD, 5 DAY, 20 DEG C MG/L	09/09/69-06/28/73	13	2.5	3.385	14.	0.5	11.423	3.38	0.9	1.75	4.	10.2
00400p	PH (STANDARD UNITS)	10/07/70-07/16/96	139	8.3	8.178	8.8	6.8	0.135	0.367	7.7	8.	8.4	8.6
00400p	CONVERTED PH (STANDARD UNITS)	10/07/70-07/16/96	139	8.3	7.961	8.8	6.8	0.183	0.427	7.7	8.	8.4	8.6
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/07/70-07/16/96	139	0.005	0.011	0.158	0.002	0.	0.02	0.003	0.004	0.01	0.02
00403p	PH, LAB, STANDARD UNITS SU	09/09/69-07/07/87	56	8.3	8.304	8.7	7.4	0.056	0.236	8.	8.2	8.4	8.53
00403p	CONVERTED PH, LAB, STANDARD UNITS	09/09/69-07/07/87	56	8.3	8.221	8.7	7.4	0.063	0.25	8.	8.2	8.4	8.53
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/09/69-07/07/87	56	0.005	0.006	0.04	0.002	0.	0.006	0.003	0.004	0.006	0.01
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	02/06/78-05/15/96	56	137.	136.054	178.	102.	356.779	18.889	109.4	120.25	149.5	160.6
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	10/09/86-10/09/86	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	10/21/87-07/16/96	64	31.75	31.713	43.5	15.	34.447	5.869	23.85	27.775	36.1	38.85
00496	LOSS ON IGNITION, BOTTOM DEPOSITS (MG/KG)	10/13/83-10/13/83	1	111300.	111300.	111300.	111300.	0.	0.	**	**	**	**
00510	RESIDUE, TOTAL FIXED (MG/L)	10/07/70-10/07/70	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/09/69-05/15/96	81	26.	33.469	154.	5.	625.477	25.01	11.2	18.	40.5	68.2
00535p	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	09/09/69-05/15/96	80	8.	10.319	47.	1.	59.533	7.716	3.	5.	13.75	19.
00557	OIL & GREASE,SED,DRY WT,FREON EXTR-GRAV METH,MG/KG	10/13/83-10/13/83	1	575.	575.	575.	575.	0.	0.	**	**	**	**
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/09/69-05/15/96	82	0.04	0.084	1.	0.005	0.025	0.157	0.01	0.024	0.1	0.1
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/07/70-05/24/94	17	0.015	0.019	0.05	0.005	0.	0.011	0.009	0.013	0.02	0.042
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/09/69-05/24/94	75	0.02	0.048	0.65	0.005	0.011	0.107	0.005	0.01	0.03	0.08
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/27/93-05/15/96	10	0.87	0.84	1.48	0.4	0.096	0.309	0.411	0.578	1.02	1.434
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	11/28/94-05/15/96	6	0.02	0.031	0.11	0.005	0.002	0.039	**	**	**	**
00650p	PHOSPHATE, TOTAL (MG/L AS PO4)	09/09/69-10/09/85	53	0.15	0.164	0.8	0.03	0.016	0.127	0.06	0.085	0.21	0.28
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/11/73-10/09/85	39	0.03	0.048	0.21	0.015	0.003	0.052	0.015	0.015	0.03	0.15
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	09/09/69-05/15/96	82	0.05	0.061	0.34	0.01	0.002	0.048	0.02	0.03	0.07	0.107
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	10/13/83-10/13/83	1	500.	500.	500.	500.	0.	0.	**	**	**	**
00671p	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/11/73-05/15/96	67	0.01	0.024	0.07	0.005	0.	0.019	0.005	0.01	0.04	0.052
00680p	CARBON, TOTAL ORGANIC (MG/L AS C)	06/19/74-05/15/96	60	4.5	4.85	18.	0.5	16.664	4.082	0.5	1.25	6.	10.9

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

Parameter Inventory for Station: PAIS0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00940p	CHLORIDE,TOTAL IN WATER MG/L	09/09/69-05/15/96	81	17900.	18167.667	37000.	4620.	22853068.4	4780.488	11820.	16091.5	20126.	22500.
00941	CHLORIDE, DISSOLVED IN WATER MG/L	12/04/75-03/17/77	4	14525.	12950.	17500.	5250.	28351666.667	5324.628	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	07/23/70-05/15/96	79	2630.	2487.873	3780.	26.	467828.779	683.98	1480.	2180.	2910.	3230.
01002	ARSENIC, TOTAL (UG/L AS AS)	10/07/70-10/07/70	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	10/13/83-10/13/83	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01004	ARSENIC TOTAL IN FISH OR ANIMAL WET WT MG/KG	07/26/83-07/26/83	2 ##	2.525	2.525	3.9	1.15	3.781	1.945	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	10/07/70-10/07/70	1	200.	200.	200.	200.	0.	0.	**	**	**	**
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	10/13/83-10/13/83	1	110.	110.	110.	110.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	10/07/70-10/07/70	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	10/13/83-10/13/83	1 ##	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	10/13/83-10/13/83	1	13.	13.	13.	13.	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	10/07/70-10/07/70	1	1000.	1000.	1000.	1000.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	10/07/70-10/07/70	1	400.	400.	400.	400.	0.	0.	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	10/13/83-10/13/83	1	14.	14.	14.	14.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	10/07/70-10/07/70	1	50.	50.	50.	50.	0.	0.	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	10/13/83-10/13/83	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	10/13/83-10/13/83	1	610.	610.	610.	610.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/07/70-10/07/70	1	100.	100.	100.	100.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	10/07/70-10/07/70	1	100.	100.	100.	100.	0.	0.	**	**	**	**
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	10/13/83-10/13/83	1	15.	15.	15.	15.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	10/07/70-10/07/70	1	50.	50.	50.	50.	0.	0.	**	**	**	**
01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	10/13/83-10/13/83	1 ##	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	10/07/70-10/07/70	1	100.	100.	100.	100.	0.	0.	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	10/13/83-10/13/83	1	58.	58.	58.	58.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	10/07/70-10/07/70	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	10/13/83-10/13/83	1 ##	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	03/17/75-08/05/81	18	0.	4.611	50.	0.	143.31	11.971	0.	0.	2.75	19.4
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	03/17/75-08/05/81	18	0.	0.289	1.699	0.	0.24	0.49	0.	0.	0.401	1.254
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			1.946								
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	10/07/70-03/21/73	6	2.	16.667	94.	0.	1436.267	37.898	**	**	**	**
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	10/07/70-03/21/73	6	0.301	0.479	1.973	0.	0.557	0.747	**	**	**	**
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			3.016								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	03/17/75-07/16/96	46 ##	4.5	4.565	12.	1.5	3.073	1.753	3.5	3.5	5.	7.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	03/17/75-07/16/96	46 ##	0.653	0.635	1.079	0.176	0.02	0.142	0.544	0.544	0.699	0.845
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			4.318								
31619	FECAL COLIFORM,MPN,BORIC ACID LACTOSE BR,43C,48HR	10/07/70-08/22/95	24	2.	5.104	63.	0.	171.521	13.097	0.	2.	2.	12.5
31619	LOG FECAL COLIFORM,MPN,BORIC ACID LACTOSE BR,43C,4	10/07/70-08/22/95	24	0.301	0.345	1.799	-0.301	0.172	0.415	0.	0.301	0.301	0.831
31619	GM FECAL COLIFORM,MPN,BORIC ACID LACTOSE BR,43C,48	GEOMETRIC MEAN =			2.213								
32211p	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	02/23/72-05/15/96	66	5.	9.79	66.	0.5	155.541	12.472	1.38	3.75	10.225	24.99
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	02/06/78-05/15/96	49	2.	2.973	31.2	0.	23.613	4.859	0.	1.	2.755	6.7
32734	PHENOLICS,TISSUE,WET WEIGHT,MG/KG	07/26/83-07/26/83	2 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
34204	ACENAPHTHYLENE WET WGTTISMG/KG	07/26/83-07/26/83	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34209	ACENAPHTHENE WET WGTTISMG/KG	07/26/83-07/26/83	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34224	ANTHRACENE WET WGTTISMG/KG	07/26/83-07/26/83	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34241	BENZIDINE WET WGTTISMG/KG	07/26/83-07/26/83	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34246	BENZO(K)FLUORANTHENE, WET WT, TISSUE MG/KG	07/26/83-07/26/83	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34251	BENZO-A-PYRENE WET WGTTISMG/KG	07/26/83-07/26/83	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34258	B-BHC-BETA WET WGTTISMG/KG	07/26/83-07/26/83	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34263	DELTA BENZENE HEXACHLORIDE WET WGTTISMG/KG	07/26/83-07/26/83	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34277	BIS (2-CHLOROETHYL) ETHER WET WGTTISMG/KG	07/26/83-07/26/83	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34282	BIS (2-CHLOROETHOXY) METHANE WET WGTTISMG/KG	07/26/83-07/26/83	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34287	BIS (2-CHLOROISOPROPYL) ETHER WET WGTTISMG/KG	07/26/83-07/26/83	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34324	CHRYSENE WET WGTTISMG/KG	07/26/83-07/26/83	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34340	DIETHYL PHTHALATE WET WGTTISMG/KG	07/26/83-07/26/83	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34345	DIMETHYL PHTHALATE WET WGTTISMG/KG	07/26/83-07/26/83	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34350	1,2-DIPHENYLHYDRAZINE WET WGTTISMG/KG	07/26/83-07/26/83	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34355	ENDOSULFAN SULFATE WET WGTTISMG/KG	07/26/83-07/26/83	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34360	ENDOSULFAN, BETA WET WGTTISMG/KG	07/26/83-07/26/83	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34370	ENDRIN ALDEHYDE WET WGTTISMG/KG	07/26/83-07/26/83	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34380	FLUORANTHENE WET WGTTISMG/KG	07/26/83-07/26/83	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34385	FLUORENE WET WGTTISMG/KG	07/26/83-07/26/83	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34390	HEXACHLOROCYCLOPENTADIENE WET WGTTISMG/KG	07/26/83-07/26/83	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34400	HEXACHLOROETHANE WET WGTTISMG/KG	07/26/83-07/26/83	2 ##	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

Parameter Inventory for Station: PAIS0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
34407	INDENO (1,2,3-CD) PYRENE WET WGTTISMG/KG	07/26/83-07/26/83	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34412	ISOPHORONE WET WGTTISMG/KG	07/26/83-07/26/83	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34432	N-NITROSODI-N-PROPYLAMINE WET WGTTISMG/KG	07/26/83-07/26/83	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34437	N-NITROSODIPHENYLAMINE WET WGTTISMG/KG	07/26/83-07/26/83	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34442	N-NITROSODIMETHYLAMINE WET WGTTISMG/KG	07/26/83-07/26/83	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34446	NAPHTHALENE WET WGTTISMG/KG	07/26/83-07/26/83	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34451	NITROBENZENE WET WGTTISMG/KG	07/26/83-07/26/83	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34465	PHENANTHRENE WET WGTTISMG/KG	07/26/83-07/26/83	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34473	PYRENE WET WGTTISMG/KG	07/26/83-07/26/83	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34530	BENZO(A)ANTHRACENE1,2-BENZANTHRACENWET WGTTISMG/KG	07/26/83-07/26/83	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34540	1,2-DICHLOROBENZENE WET WGTTISMG/KG	07/26/83-07/26/83	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34555	1,2,4-TRICHLOROBENZENE WET WGTTISMG/KG	07/26/83-07/26/83	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34570	1,3-DICHLOROBENZENE WET WGTTISMG/KG	07/26/83-07/26/83	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34575	1,4-DICHLOROBENZENE WET WGTTISMG/KG	07/26/83-07/26/83	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34585	2-CHLORONAPHTHALENE WET WGTTISMG/KG	07/26/83-07/26/83	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34595	2-NITROPHENOL WET WGTTISMG/KG	07/26/83-07/26/83	2 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
34600	DI-N-OCTYL PHTHALATE WET WGTTISMG/KG	07/26/83-07/26/83	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34605	2,4-DICHLOROPHENOL WET WGTTISMG/KG	07/26/83-07/26/83	2 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
34610	2,4-DIMETHYLPHENOL WET WGTTISMG/KG	07/26/83-07/26/83	2 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
34615	2,4-DINITROTOLUENE WET WGTTISMG/KG	07/26/83-07/26/83	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34620	2,4-DINITROPHENOL WET WGTTISMG/KG	07/26/83-07/26/83	2 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
34625	2,4,6-TRICHLOROPHENOL WET WGTTISMG/KG	07/26/83-07/26/83	2 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
34630	2,6-DINITROTOLUENE WET WGTTISMG/KG	07/26/83-07/26/83	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34635	3,3'-DICHLOROBENZIDINE WET WGTTISMG/KG	07/26/83-07/26/83	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34640	4-BROMOPHENYL PHENYL ETHER WET WGTTISMG/KG	07/26/83-07/26/83	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34645	4-CHLOROPHENYL PHENYL ETHER WET WGTTISMG/KG	07/26/83-07/26/83	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34650	4-NITROPHENOL WET WGTTISMG/KG	07/26/83-07/26/83	2 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
34680	ALDRIN IN FISH TISSUE WET WEIGHT MG/KG	07/26/83-07/26/83	2 ##	0.5	0.5	1.	0.	0.5	0.707	**	**	**	**
34682	CHLORDANE(TECH MIX & METABS),TISSUEWET WGTT,MG/KG	07/26/83-07/26/83	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34683	DI-N-BUTYL PHTHALATE,TISSUE,WET WGTWET WGT	07/26/83-07/26/83	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34685	ENDRIN WET WGTTISMG/KG	07/26/83-07/26/83	2 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
34686	HEPTACHLOR EPOXIDE WET WGTTISMG/KG	07/26/83-07/26/83	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34687	HEPTACHLOR WET WGTTISMG/KG	07/26/83-07/26/83	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34688	HEXACHLOROBENZENE WET WGTTISMG/KG	07/26/83-07/26/83	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34691	TOXAPHENE WET WGTTISMG/KG	07/26/83-07/26/83	2 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39060	PCP (PENTACHLOROPHENOL) IN TISSUE WET WGT UG/G	07/26/83-07/26/83	2 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
39063	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	07/26/83-07/26/83	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	07/26/83-07/26/83	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39072	CHLORDANE-NONACHLOR,TRANS ISO,TISSUE,WET WT,UG/G	07/26/83-07/26/83	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39074	BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	07/26/83-07/26/83	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39075	BHC- GAMMA ISOMER, TISSUE WET WGT (UG/G)	07/26/83-07/26/83	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39099	BIS(2-ETHYLHEXYL)PHTHALATE,TISSUE,WET WGT,MG/KG	07/26/83-07/26/83	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
39302	P P DDT IN TISSUE WET WGT (UG/G)	07/26/83-07/26/83	2 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39307	O P DDT IN TISSUE WET WGT (UG/G)	07/26/83-07/26/83	2 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39312	P P DDD IN TISSUE WET WGT (UG/G)	07/26/83-07/26/83	2 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39322	P,P'-DDE IN TISSUE WET WGT MG/KG	07/26/83-07/26/83	2 ##	0.01	0.01	0.02	0.	0.	0.014	**	**	**	**
39325	O,P DDD IN TISSUE WET WGT (UG/G)	07/26/83-07/26/83	2 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39329	O,P DDE IN TISSUE, WET WGT(UG/G)	07/26/83-07/26/83	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39376	DDT SUM ANALOGS INTISSUE WET WGT BASIS	07/26/83-07/26/83	2 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39406	DIELDRIN IN AQ ORGANISMS WT WGT BASIS (UG/G)	07/26/83-07/26/83	2 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39515	PCBS (MG/KG) FISH TISSUE MG/KG	07/26/83-07/26/83	2 ##	0.01	0.01	0.02	0.	0.	0.014	**	**	**	**
39704	HEXACHLOROBUTADIENE IN FISH OR ANIMAL WET WGT UG/K	07/26/83-07/26/83	2 ##	100.	100.	100.	100.	0.	0.	**	**	**	**
70211	TIDE, HIGH OR LOW,BEFORE OR AFTER,HOUR,MINUTE	09/11/73-12/04/74	4	0.5	0.5	1.	0.	0.333	0.577	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	02/06/78-05/15/96	14	35875.	37393.571	66600.	26000.	96548424.725	9825.906	28100.	31475.	40265.	55700.
71900	MERCURY, TOTAL (UG/L AS HG)	10/07/70-10/07/70	1	1.	1.	1.	1.	0.	0.	**	**	**	**
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	10/13/83-10/13/83	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	07/26/83-07/26/83	2	0.11	0.11	0.14	0.08	0.002	0.042	**	**	**	**
71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	07/26/83-07/26/83	2 ##	0.325	0.325	0.35	0.3	0.001	0.035	**	**	**	**
71937	COPPER,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	07/26/83-07/26/83	2	0.89	0.89	1.1	0.68	0.088	0.297	**	**	**	**
71939	CHROMIUM,TOT IN FISH OR ANIMALS-WET WEIGHT BASIS	07/26/83-07/26/83	2 ##	0.325	0.325	0.35	0.3	0.001	0.035	**	**	**	**
71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	07/26/83-07/26/83	2 ##	0.175	0.175	0.2	0.15	0.001	0.035	**	**	**	**
72053	DAYS SINCE PRECIPITATION EVENT DAYS	05/15/91-06/21/95	3	1.	1.167	2.	0.5	0.583	0.764	**	**	**	**
78877	DIPHENYLAMINE IN TISSUE, WET WEIGHT MG/KG	07/26/83-07/26/83	2 ##	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

Parameter Inventory for Station: PAIS0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
79035	CHLOROPHENOL TISWETWTMG/KG	07/26/83-07/26/83	2 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
79036	4-CHLORO-3-CRESOL TISWETWTMG/KG	07/26/83-07/26/83	2 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
79037	2,6-DINITRO-2-CRESOL TISWETWTMG/KG	07/26/83-07/26/83	2 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
79038	BUTYLBENZYL PHTHALATE TISWETWTMG/KG	07/26/83-07/26/83	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
79039	BENZO(J)FLUORANTHENE TISWETWTMG/KG	07/26/83-07/26/83	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
79040	DIBENZ(A,H)ANTHRACENE TISWETWTMG/KG	07/26/83-07/26/83	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
79041	BENZO(GHI)PERYLENE TISWETWTMG/KG	07/26/83-07/26/83	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	07/26/83-07/26/83	2	5.	5.	5.	5.	0.	0.	**	**	**	**
81615	NUMBER OF DIFFERENT SPECIES IN THE SAMPLE	07/26/83-07/26/83	2	1.	1.	1.	1.	0.	0.	**	**	**	**
81644	METHOXYCHLOR IN FISH TISSUE,UG/G WET WEIGHT	07/26/83-07/26/83	2 ##	0.015	0.015	0.015	0.015	0.	0.	**	**	**	**
81896	DDE TOTAL IN TISSUE WET WEIGHT MG/KG	07/26/83-07/26/83	2 ##	0.005	0.005	0.01	0.	0.	0.007	**	**	**	**
81897	DDD TOTAL IN TISSUE WET WEIGHT MG/KG	07/26/83-07/26/83	2 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**

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

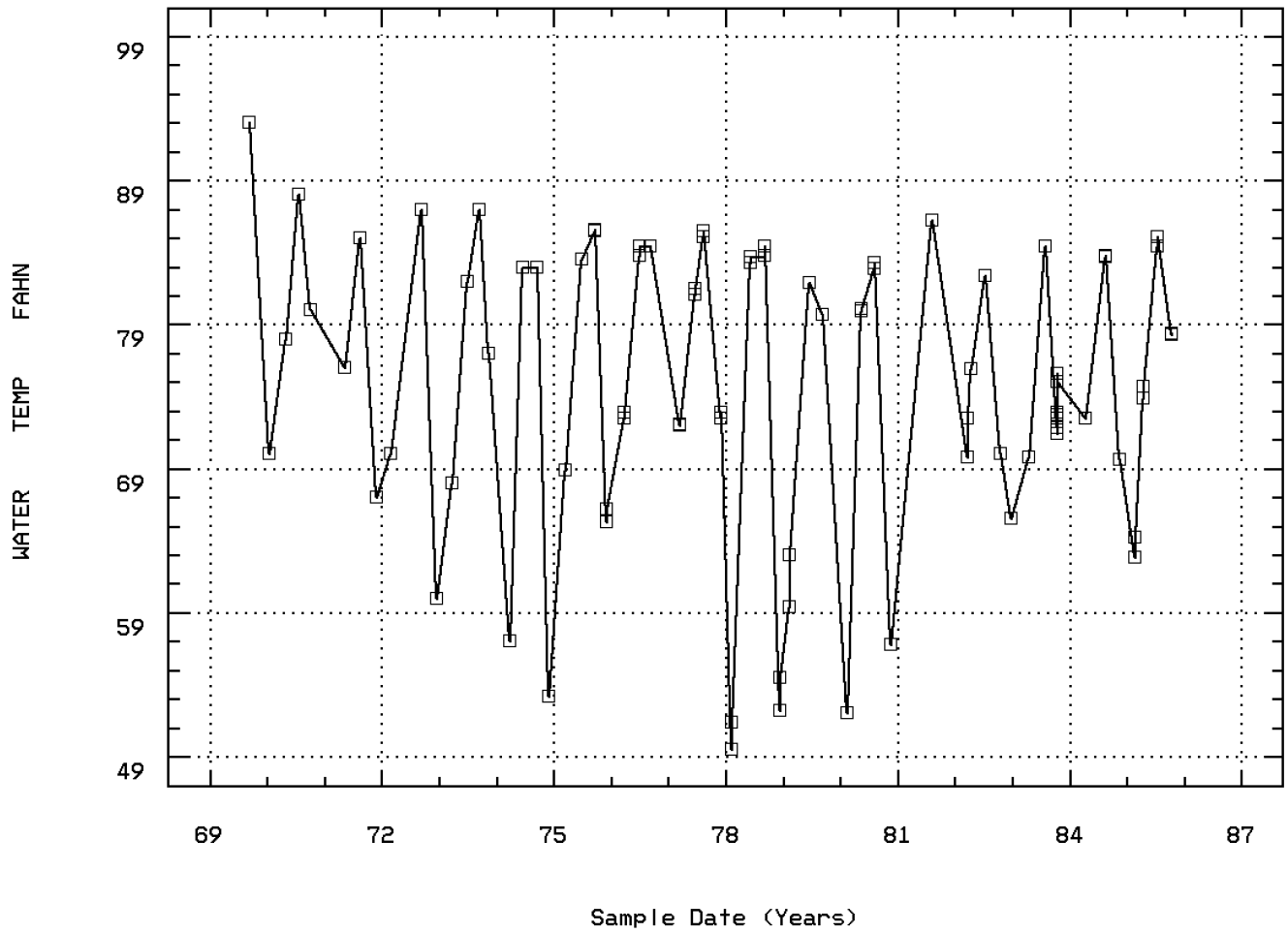
EPA Water Quality Criteria Analysis for Station: PAIS0019

				Total	Exceed	Prop.	----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------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.	25	1	0.04	13	0	0.00	12	1	0.08						
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	156	5	0.03	95	3	0.03	61	2	0.03						
00400	PH	Marine Chronic	8.5	139	29	0.21	85	22	0.26	54	7	0.13						
		Other-Lo Lim.	6.5	139	0	0.00	85	0	0.00	54	0	0.00						
00403	PH, LAB	Marine Chronic	8.5	56	13	0.23	30	10	0.33	26	3	0.12						
		Other-Lo Lim.	6.5	56	0	0.00	30	0	0.00	26	0	0.00						
01002	ARSENIC, TOTAL	Marine Acute	69.	1	0	0.00	1	0	0.00									
01027	CADMIUM, TOTAL	Marine Acute	43.	1	0	0.00	1	0	0.00									
01042	COPPER, TOTAL	Marine Acute	2.9	1	1	1.00	1	1	1.00									
01051	LEAD, TOTAL	Marine Acute	220.	1	0	0.00	1	0	0.00									
01067	NICKEL, TOTAL	Marine Acute	75.	1	1	1.00	1	1	1.00									
01077	SILVER, TOTAL	Marine Acute	0.12	1	1	1.00	1	1	1.00									
01092	ZINC, TOTAL	Marine Acute	95.	1	1	1.00	1	1	1.00									
01147	SELENIUM, TOTAL	Marine Acute	300.	1	0	0.00	1	0	0.00									
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	18	0	0.00	11	0	0.00	7	0	0.00						
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	6	0	0.00	5	0	0.00	1	0	0.00						
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	46	0	0.00	25	0	0.00	21	0	0.00						
71900	MERCURY, TOTAL	Marine Acute	2.1	1	0	0.00	1	0	0.00									

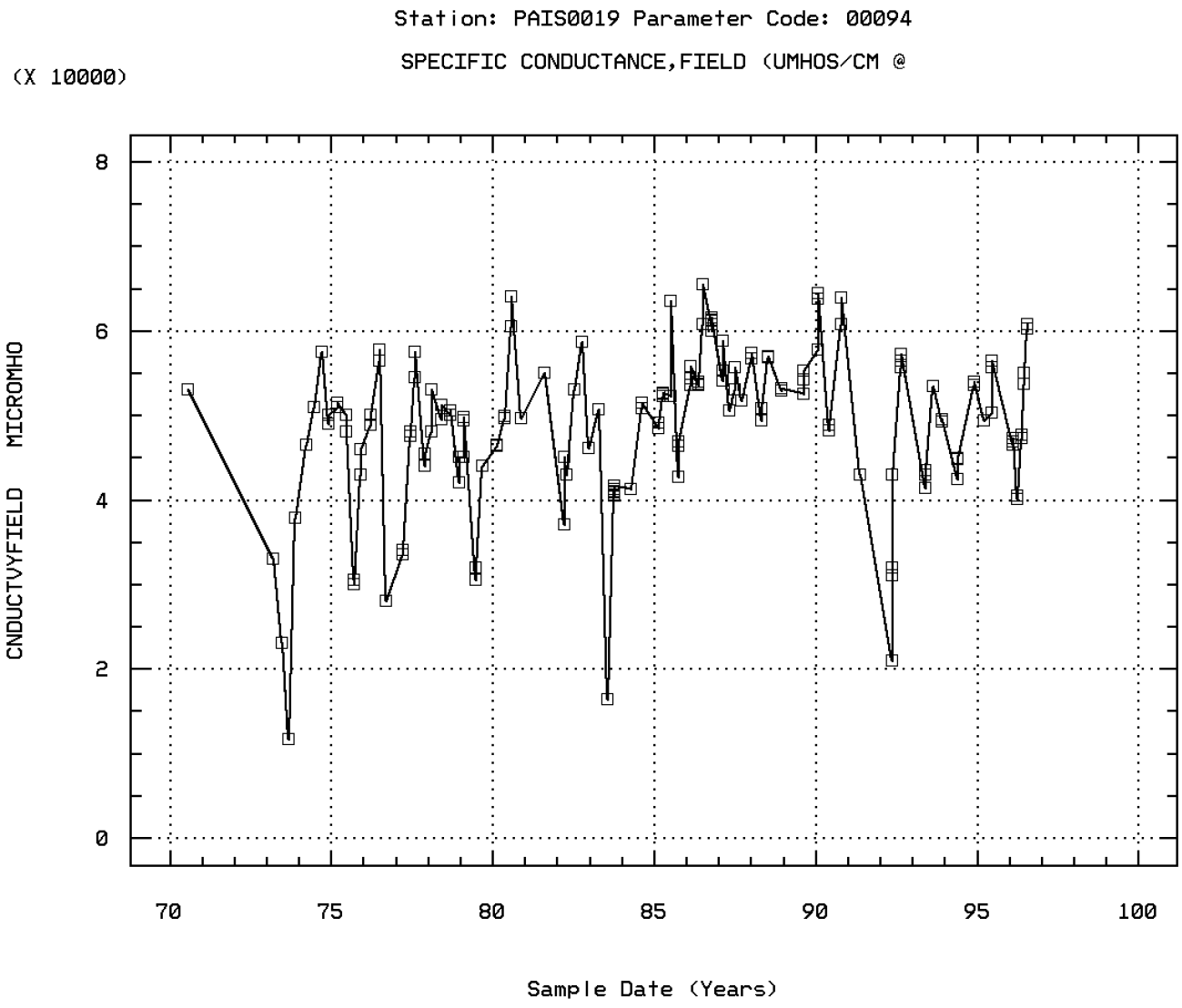
& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station: PAIS0019 Parameter Code: 00011

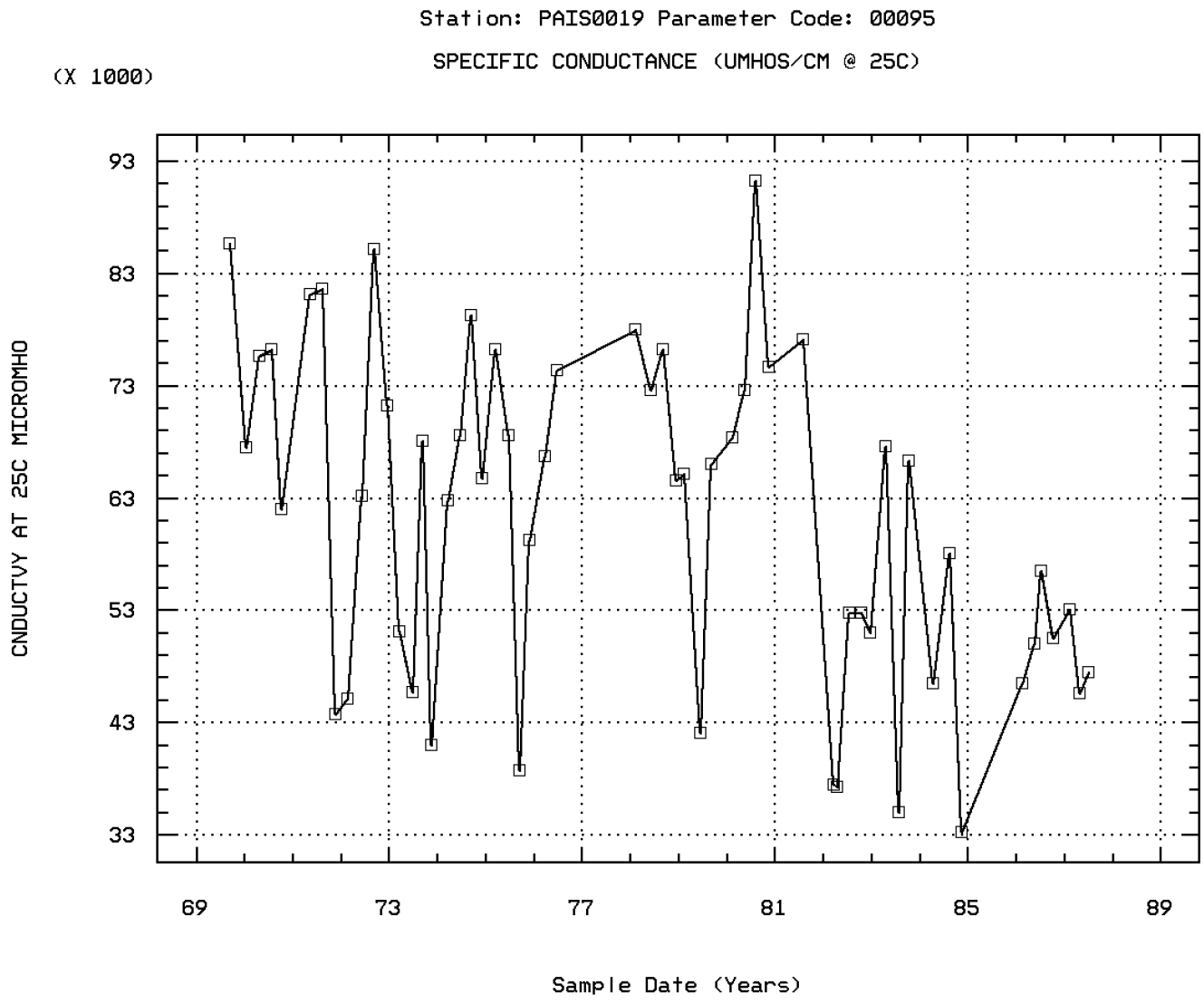
TEMPERATURE, WATER (DEGREES FAHRENHEIT)



LAGUNA MADRE AT GIWW



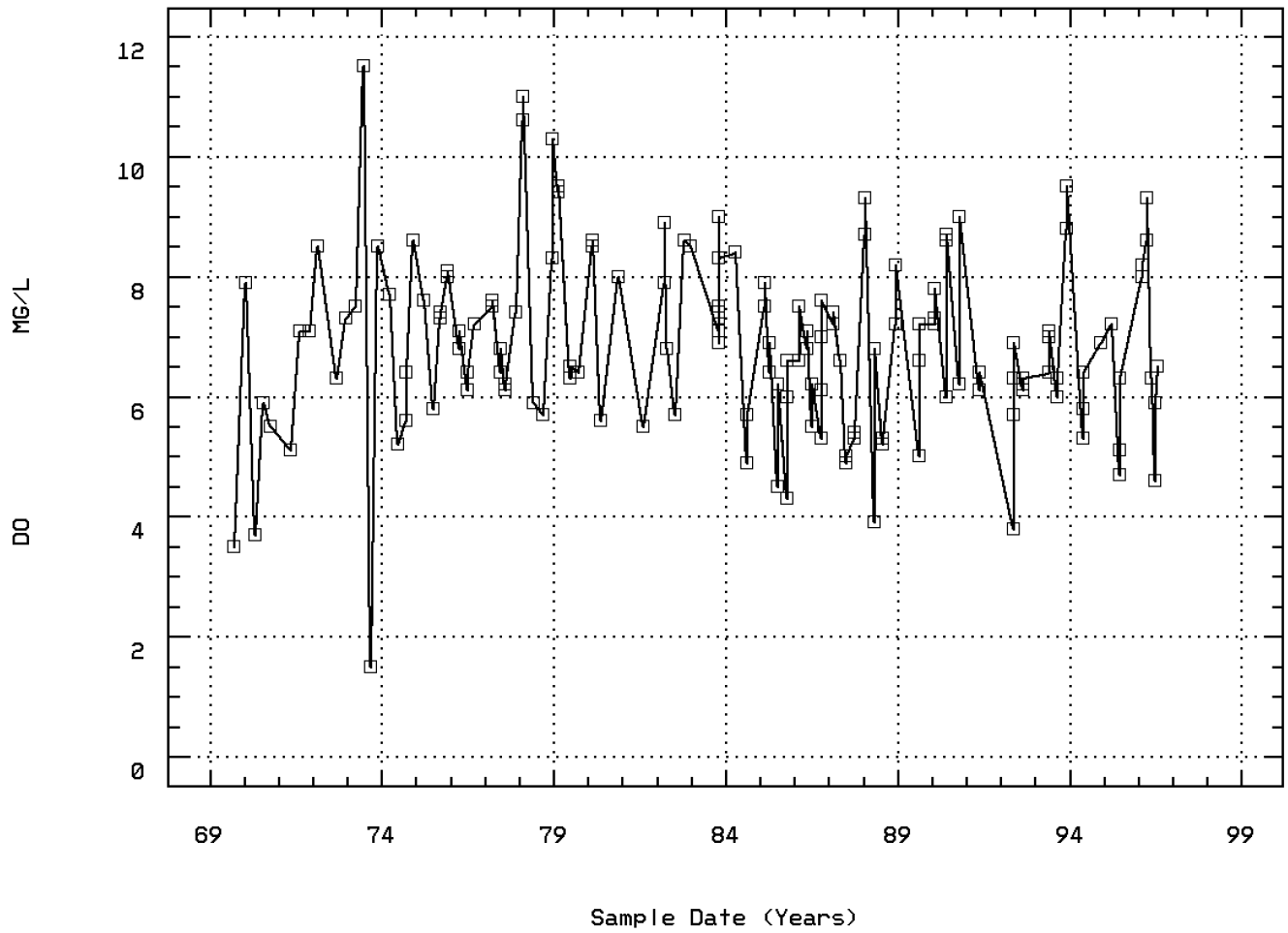
LAGUNA MADRE AT GIWW



LAGUNA MADRE AT GIWW

Station: PAIS0019 Parameter Code: 00300

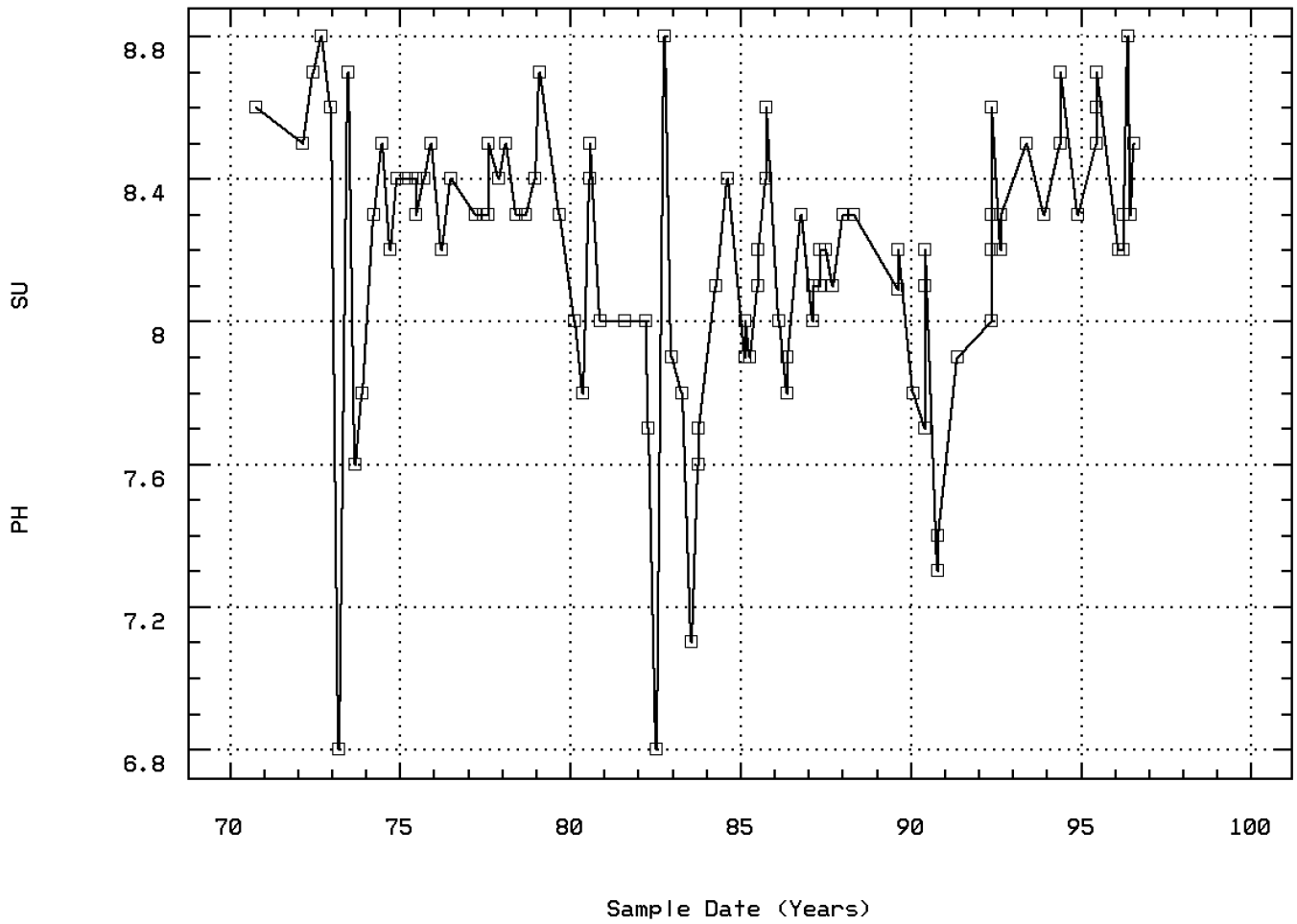
OXYGEN, DISSOLVED



LAGUNA MADRE AT GIWW

Station: PAIS0019 Parameter Code: 00400

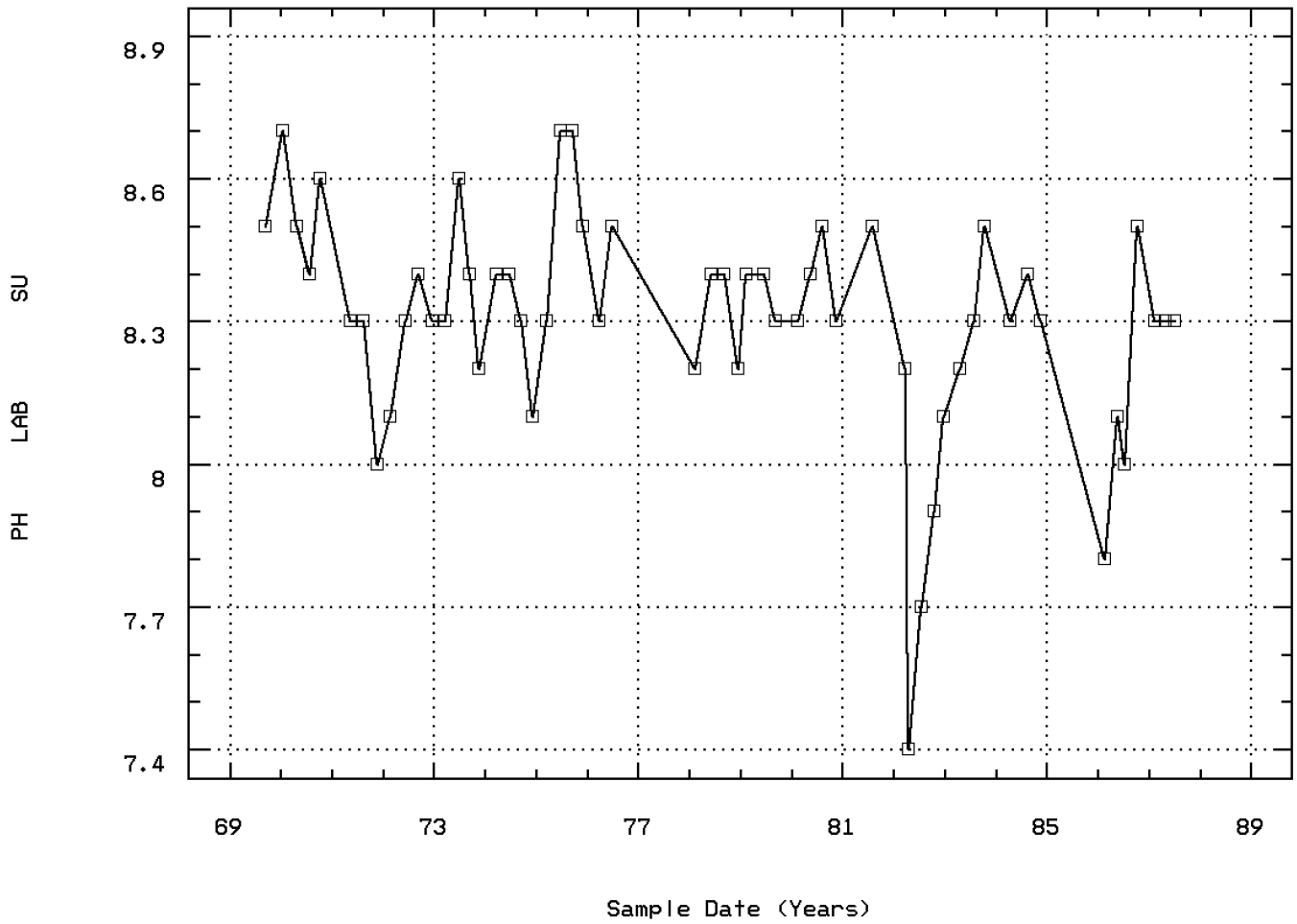
PH (STANDARD UNITS)



LAGUNA MADRE AT GIWW

Station: PAIS0019 Parameter Code: 00403

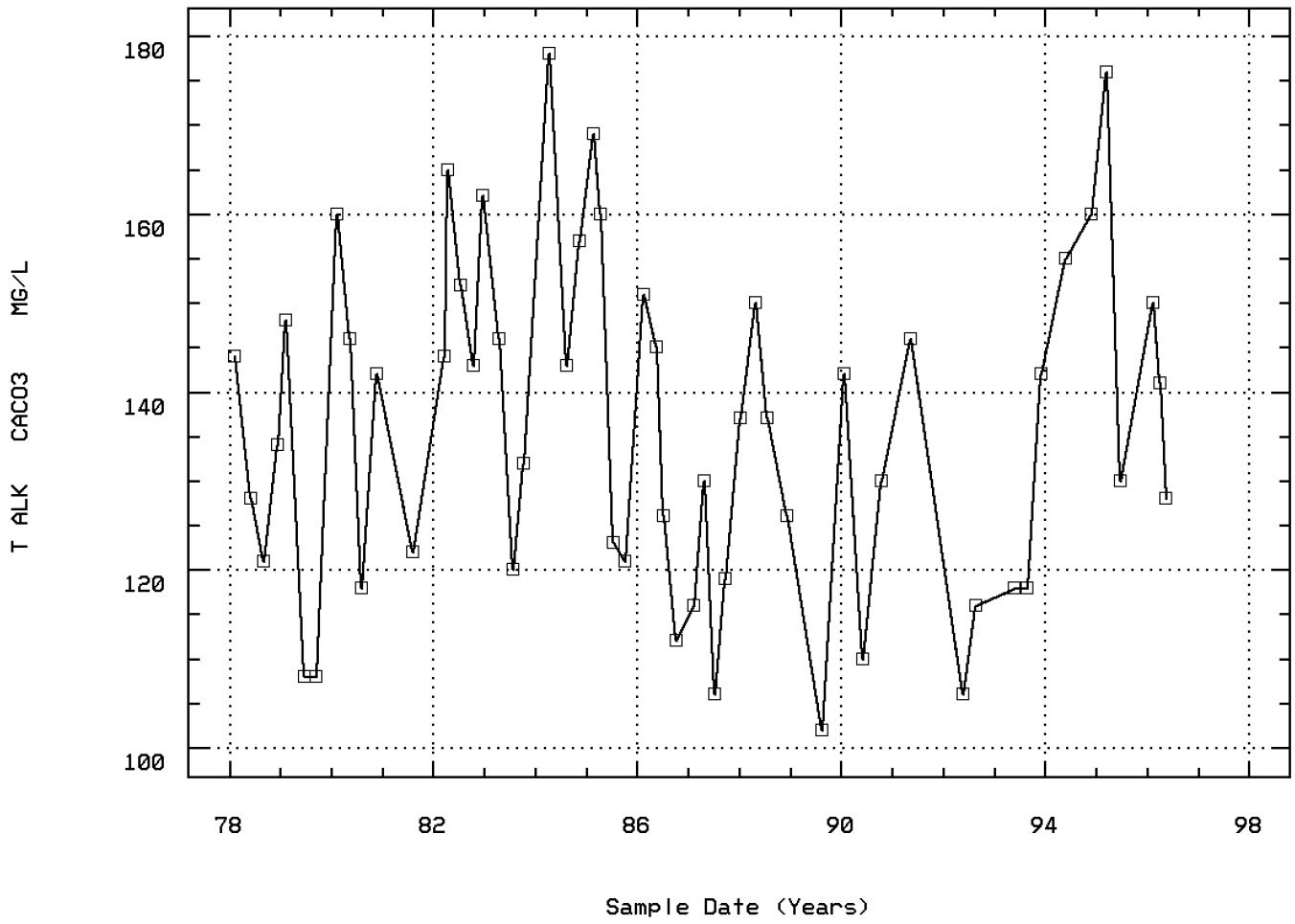
PH, LAB, STANDARD UNITS



LAGUNA MADRE AT GIWW

Station: PAIS0019 Parameter Code: 00410

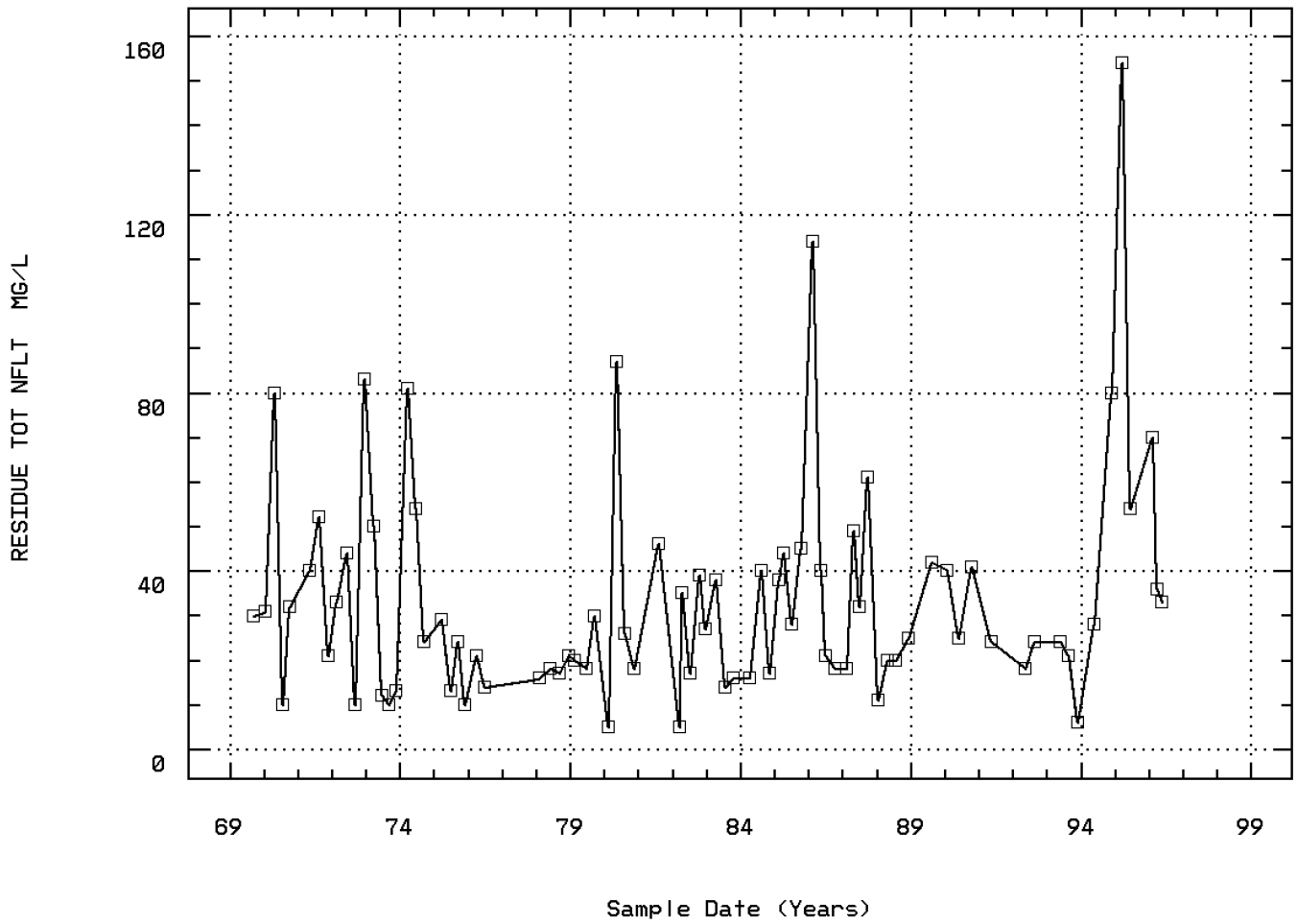
ALKALINITY, TOTAL (MG/L AS CACO3)



LAGUNA MADRE AT GIWW

Station: PAIS0019 Parameter Code: 00530

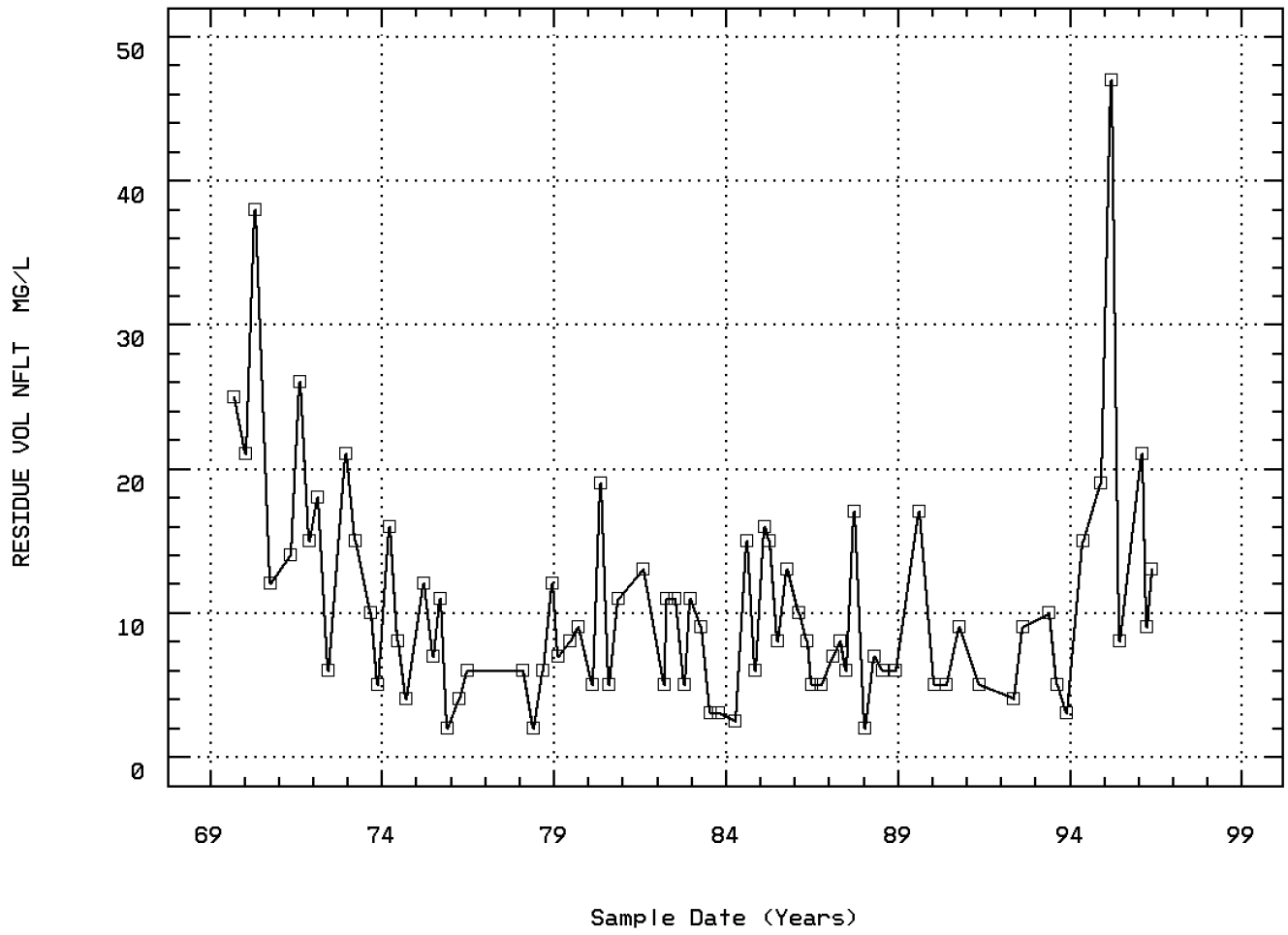
RESIDUE, TOTAL NONFILTRABLE (MG/L)



LAGUNA MADRE AT GIWW

Station: PAIS0019 Parameter Code: 00535

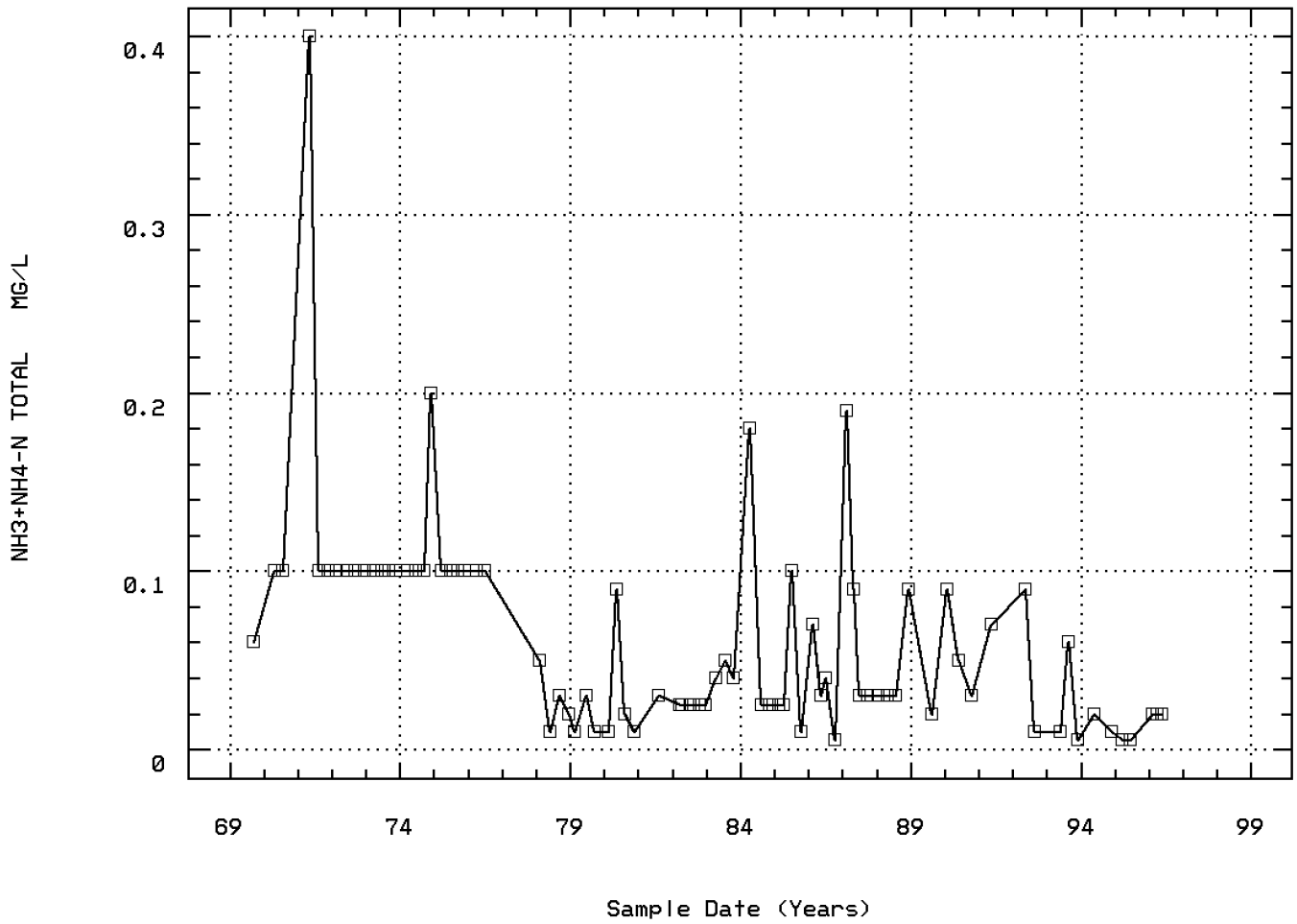
RESIDUE, VOLATILE NONFILTRABLE (MG/L)



LAGUNA MADRE AT GIWW

Station: PAIS0019 Parameter Code: 00610

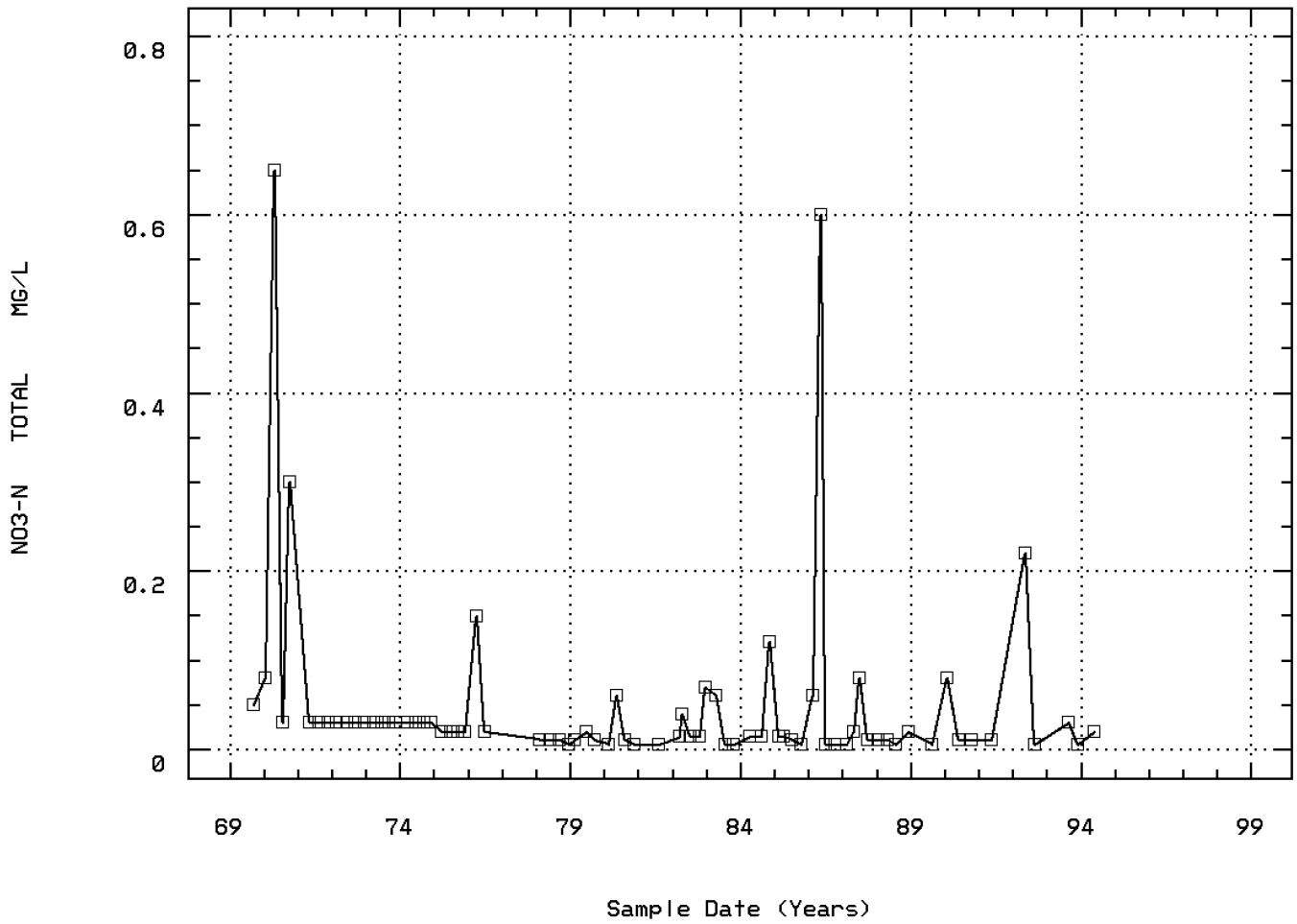
NITROGEN, AMMONIA, TOTAL (MG/L AS N)



LAGUNA MADRE AT GIWW

Station: PAIS0019 Parameter Code: 00620

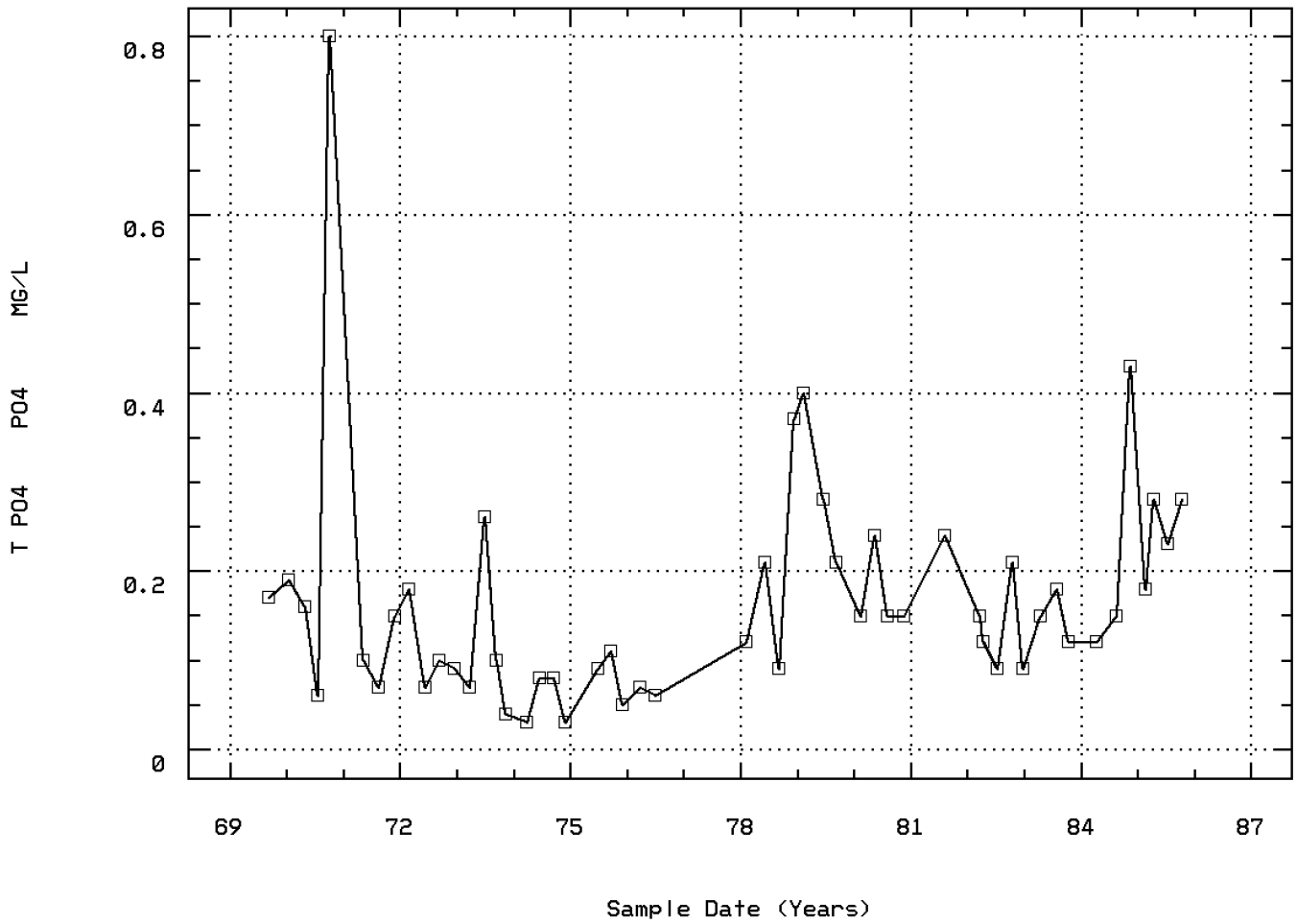
NITRATE NITROGEN, TOTAL (MG/L AS N)



LAGUNA MADRE AT GIWW

Station: PAIS0019 Parameter Code: 00650

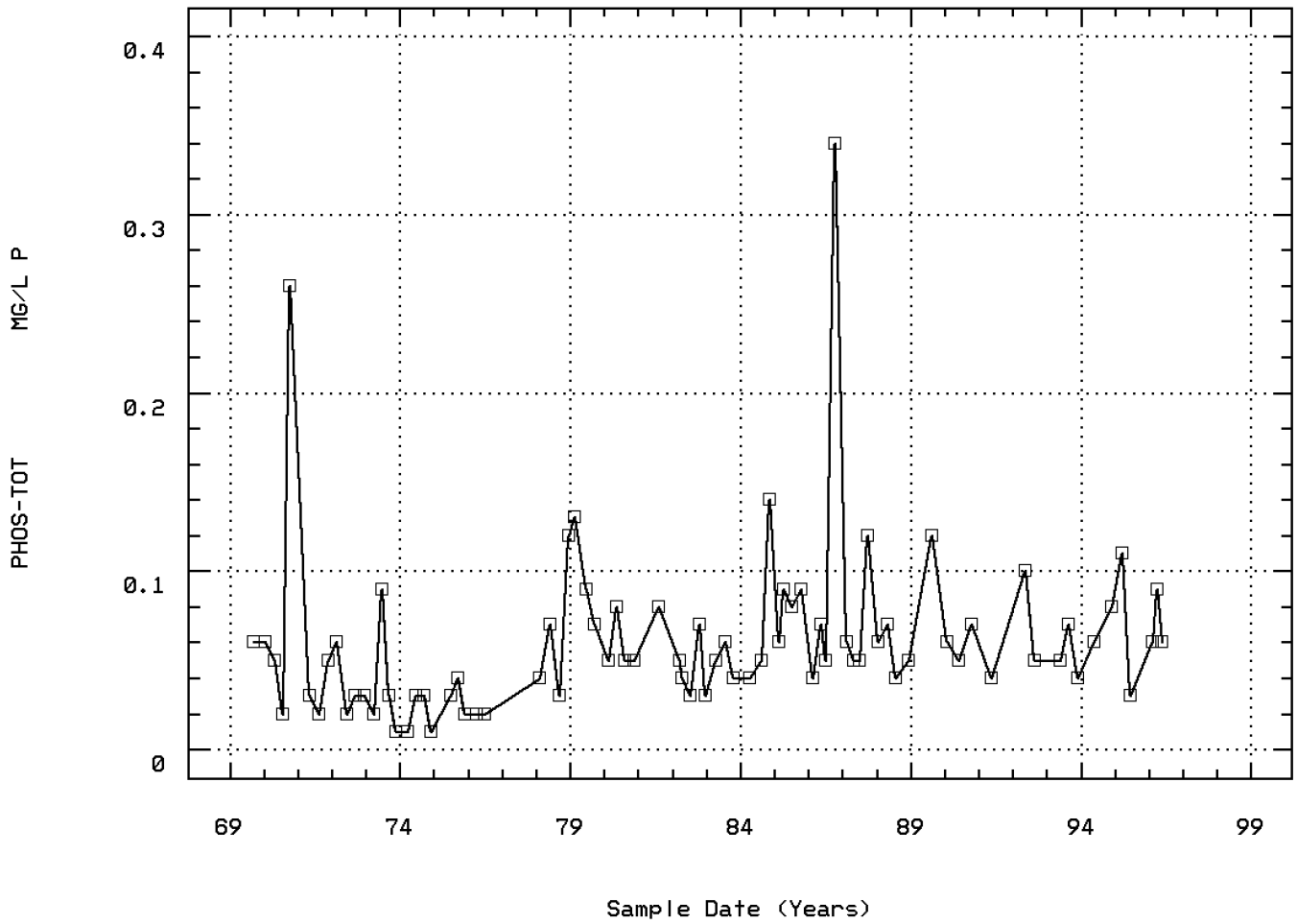
PHOSPHATE, TOTAL (MG/L AS PO4)



LAGUNA MADRE AT GIWW

Station: PAIS0019 Parameter Code: 00665

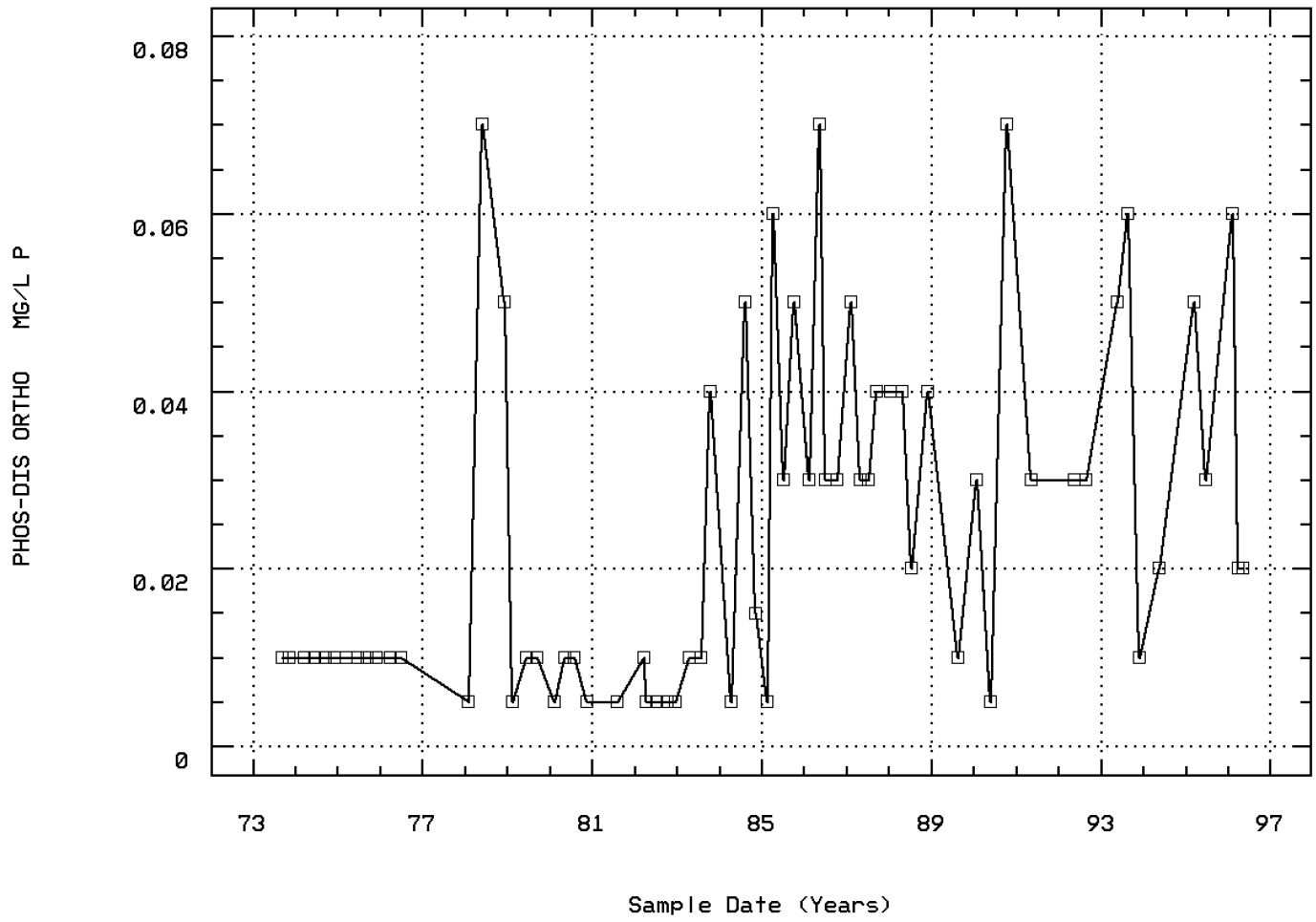
PHOSPHORUS, TOTAL (MG/L AS P)



LAGUNA MADRE AT GIWW

Station: PAIS0019 Parameter Code: 00671

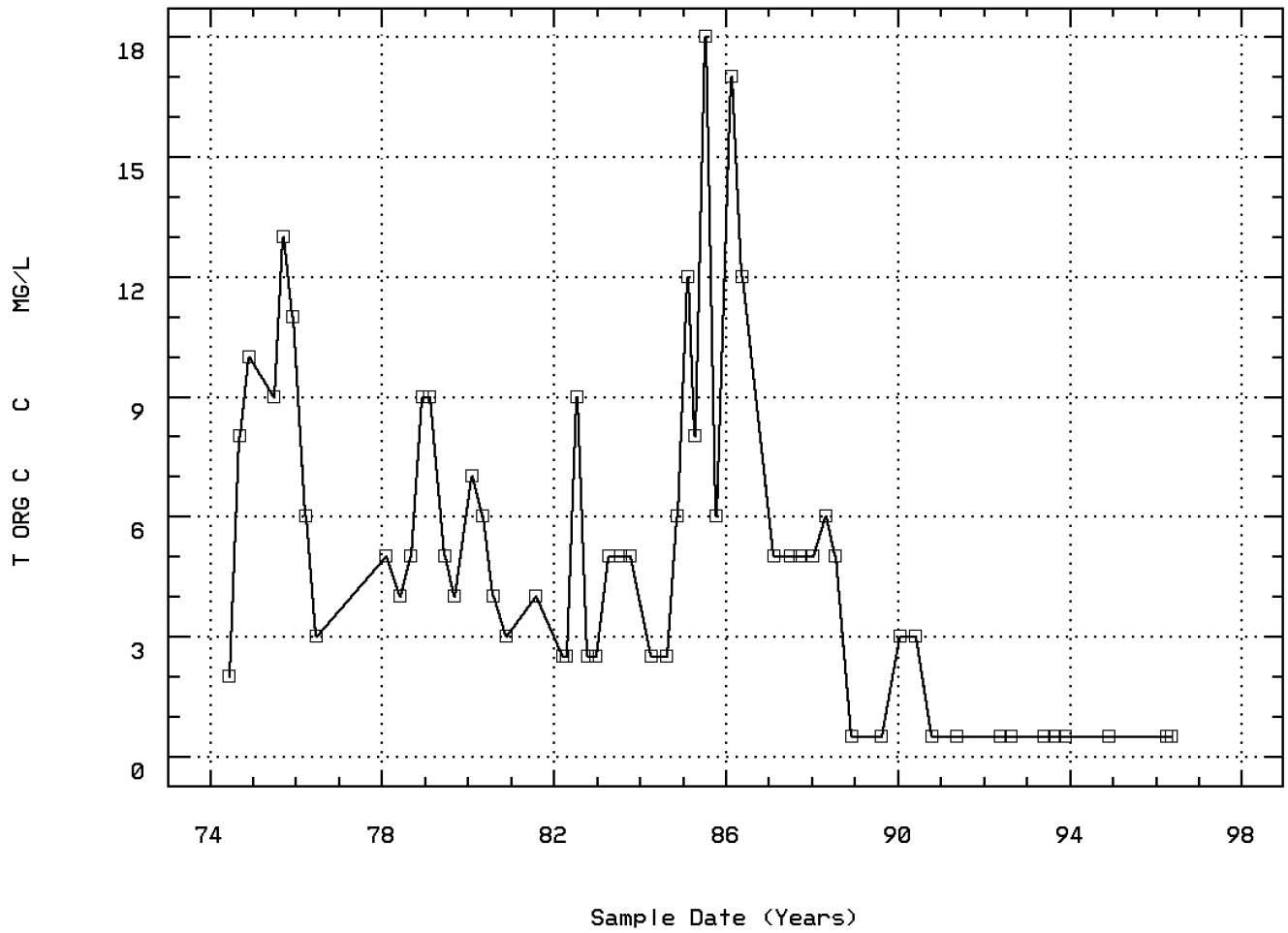
PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (M



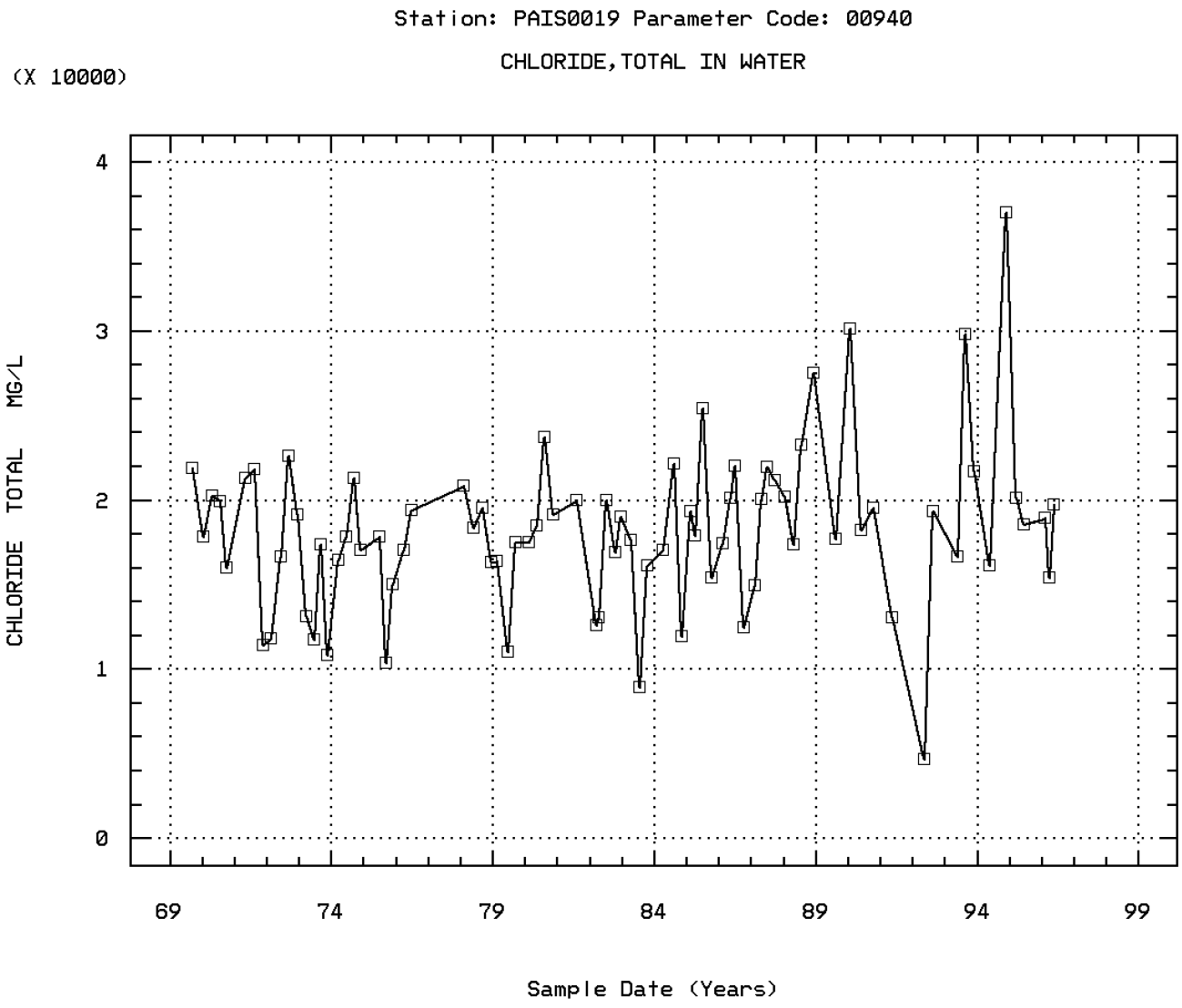
LAGUNA MADRE AT GIWW

Station: PAIS0019 Parameter Code: 00680

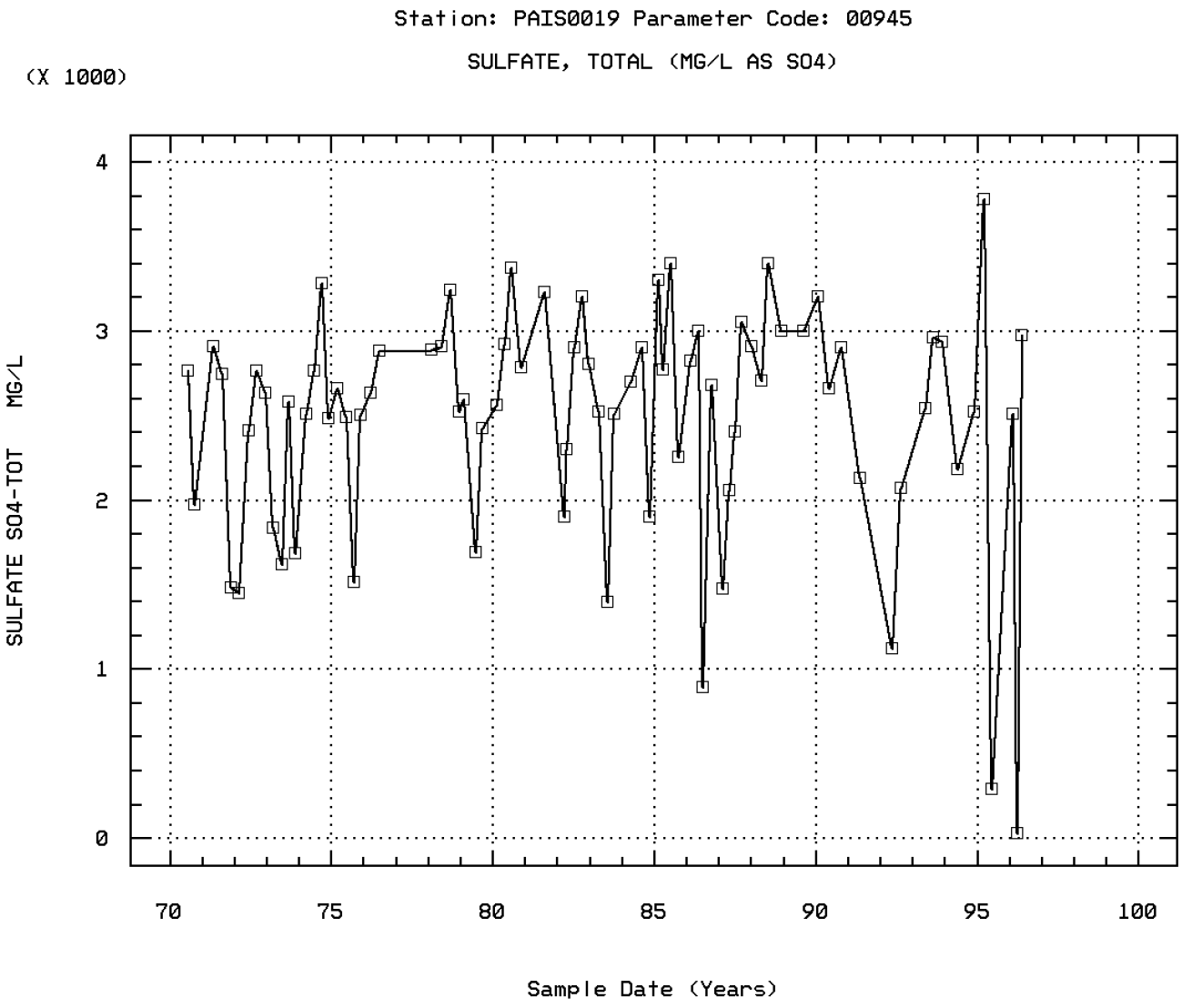
CARBON, TOTAL ORGANIC (MG/L AS C)



LAGUNA MADRE AT GIWW



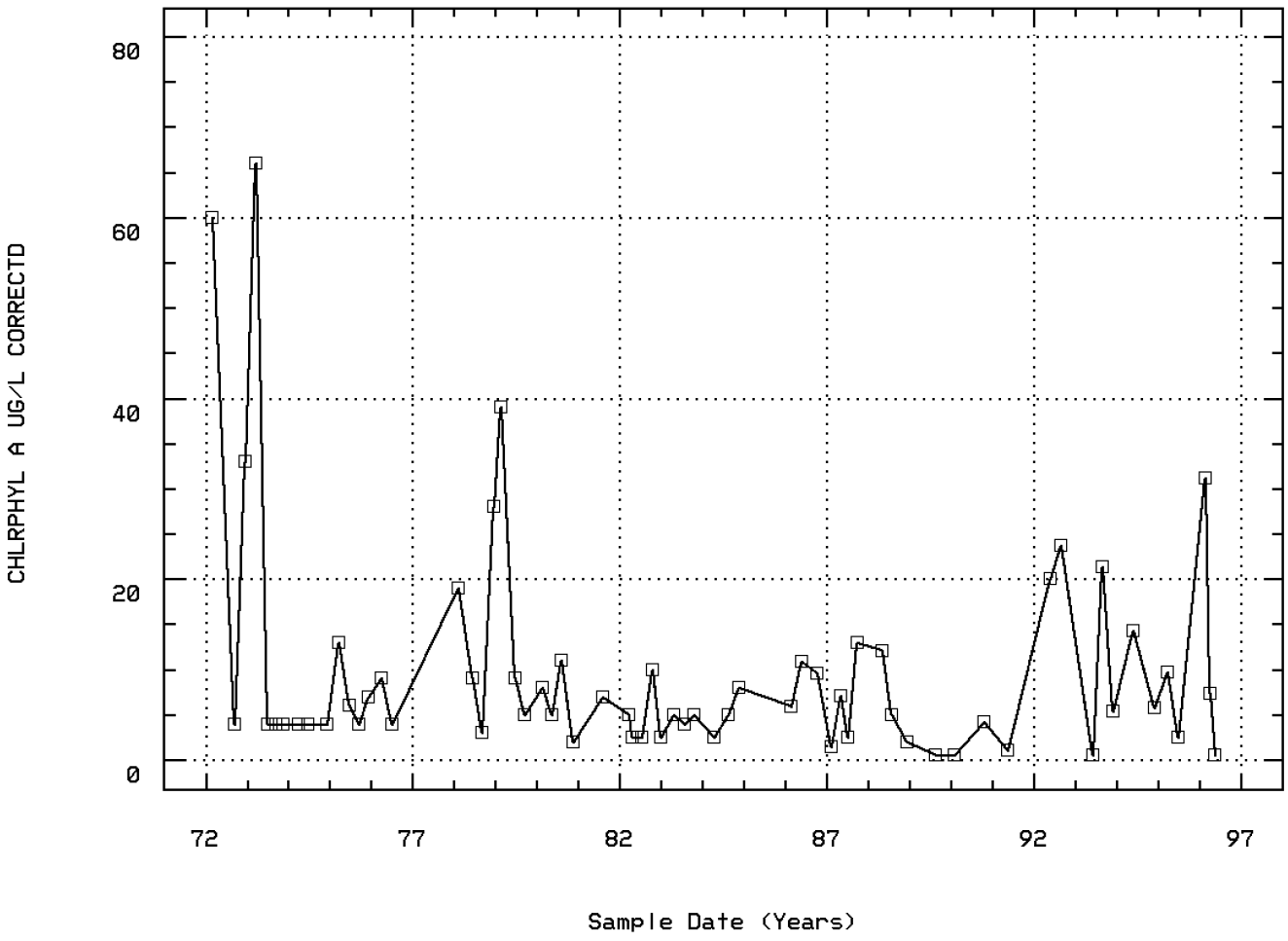
LAGUNA MADRE AT GIWW



LAGUNA MADRE AT GIWW

Station: PAIS0019 Parameter Code: 32211

CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC A



LAGUNA MADRE AT GIWW

Annual Analysis for 1969 - Station PAIS0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/09/69-07/16/96	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 box-and-whisker plot

Annual Analysis for 1970 - Station PAIS0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/09/69-07/16/96	5	1.	3.2	12.	1.	24.2	4.919	**	**	**	**
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/23/70-07/16/96	2	53000.	53000.	53000.	53000.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 PAIS0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/09/69-07/16/96	4	1.	1.	1.	1.	0.	0.	**	**	**	**

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

Annual Analysis for 1972 - Station PAIS0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/09/69-07/16/96	4	1.	1.	1.	1.	0.	0.	**	**	**	**

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

Annual Analysis for 1973 - Station PAIS0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/09/69-07/16/96	4	1.	1.	1.	1.	0.	0.	**	**	**	**
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/23/70-07/16/96	4	28000.	26356.25	37800.	11625.	134457656.25	11595.588	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 PAIS0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/09/69-07/16/96	6	1.	2.333	5.	1.	4.267	2.066	**	**	**	**
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/23/70-07/16/96	5	50000.	50800.	57500.	46500.	16825000.	4101.829	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 PAIS0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/09/69-07/16/96	10	5.	5.	14.	1.	19.333	4.397	1.	1.	7.75	13.6
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/23/70-07/16/96	8	47000.	43750.	51500.	30000.	77142857.143	8783.101	**	**	**	**

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

Annual Analysis for 1976 - Station PAIS0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/09/69-07/16/96	9	5.	4.222	10.	1.	11.694	3.42	1.	1.	7.	10.
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/23/70-07/16/96	5	50000.	48220.	57800.	28000.	143172000.	11965.45	**	**	**	**

** - 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 1977 - Station PAIS0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/09/69-07/16/96	12	5.	5.	10.	1.	12.	3.464	1.	1.	8.	10.
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/23/70-07/16/96	8	46500.	45562.5	57500.	33500.	73388392.857	8566.703	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 PAIS0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/09/69-07/16/96	12	5.	5.167	10.	1.	13.424	3.664	1.	1.	9.5	10.
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/23/70-07/16/96	8	49750.	48650.	53000.	42000.	12765714.286	3572.914	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 PAIS0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/09/69-07/16/96	9	5.	6.444	15.	1.	31.778	5.637	1.	1.	12.5	15.
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/23/70-07/16/96	7	44000.	40171.429	49800.	30500.	78282380.952	8847.733	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 PAIS0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/09/69-07/16/96	11	5.	4.455	10.	1.	9.873	3.142	1.	1.	7.	9.6
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/23/70-07/16/96	7	49600.	52342.857	64000.	46300.	49016190.476	7001.156	**	**	**	**

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

Annual Analysis for 1981 - Station PAIS0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/09/69-07/16/96	3	5.	5.333	10.	1.	20.333	4.509	**	**	**	**
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/23/70-07/16/96	2	55000.	55000.	55000.	55000.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 PAIS0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/09/69-07/16/96	8	1.	3.125	10.	1.	10.982	3.314	**	**	**	**
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/23/70-07/16/96	6	45550.	47116.667	58600.	37000.	58257666.667	7632.671	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 PAIS0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/09/69-07/16/96	18	5.	5.167	15.	0.	23.206	4.817	0.	1.	10.	12.3
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/23/70-07/16/96	9	40800.	39255.556	50700.	16400.	84150277.778	9173.346	16400.	40450.	41450.	50700.

** - Less than 9 observations ## - Computed with 50% or 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 PAIS0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/09/69-07/16/96	5	1.	3.2	8.	1.	10.2	3.194	**	**	**	**
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/23/70-07/16/96	3	50800.	47833.333	51500.	41200.	33123333.333	5755.287	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 PAIS0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/09/69-07/16/96	15	5.	7.267	15.	1.	27.638	5.257	1.	1.	10.	15.
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/23/70-07/16/96	10	50650.	50650.	63500.	42700.	31151666.667	5581.368	43060.	46750.	52525.	62410.

** - Less than 9 observations ## - Computed with 50% or 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 PAIS0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/09/69-07/16/96	19	5.	7.632	15.	1.	30.468	5.52	1.	1.	15.	15.
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/23/70-07/16/96	13	60000.	58130.769	65500.	53500.	16778974.359	4096.215	53540.	53800.	61200.	63900.

** - Less than 9 observations ## - Computed with 50% or 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 PAIS0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/09/69-07/16/96	12	5.	5.583	15.	1.	21.72	4.66	1.	1.	10.	13.5
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/23/70-07/16/96	9	53000.	53466.667	58800.	50500.	7612500.	2759.076	50500.	51100.	55450.	58800.
00480p	SALINITY - PARTS PER THOUSAND	10/21/87-07/16/96	1	30.	30.	30.	30.	0.	0.	**	**	**	**

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

Annual Analysis for 1988 - Station PAIS0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/09/69-07/16/96	12	5.	5.333	10.	1.	14.788	3.846	1.	1.	10.	10.
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/23/70-07/16/96	8	54950.	54262.5	57400.	49400.	9685535.714	3112.159	**	**	**	**
00480p	SALINITY - PARTS PER THOUSAND	10/21/87-07/16/96	5	35.	35.32	37.8	31.4	6.772	2.602	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 PAIS0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/09/69-07/16/96	4	7.5	7.75	15.	1.	36.917	6.076	**	**	**	**
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/23/70-07/16/96	3	54200.	53966.667	55200.	52500.	1863333.333	1365.04	**	**	**	**
00480p	SALINITY - PARTS PER THOUSAND	10/21/87-07/16/96	2	36.	36.	36.5	35.5	0.5	0.707	**	**	**	**

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

Annual Analysis for 1990 - Station PAIS0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/09/69-07/16/96	11	5.	7.091	15.	1.	27.491	5.243	1.	1.	10.	15.
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/23/70-07/16/96	8	59200.	57037.5	64400.	48200.	53528392.857	7316.31	**	**	**	**
00480p	SALINITY - PARTS PER THOUSAND	10/21/87-07/16/96	6	41.45	38.867	43.5	31.5	30.899	5.559	**	**	**	**

** - 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 1991 - Station PAIS0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/09/69-07/16/96	4	3.5	4.5	10.	1.	16.333	4.041	**	**	**	**
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/23/70-07/16/96	2	43000.	43000.	43000.	43000.	0.	0.	**	**	**	**
00480p	SALINITY - PARTS PER THOUSAND	10/21/87-07/16/96	3	27.6	27.267	27.7	26.5	0.443	0.666	**	**	**	**

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

Annual Analysis for 1992 - Station PAIS0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/09/69-07/16/96	9	5.	5.667	15.	1.	24.5	4.95	1.	1.5	10.	15.
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/23/70-07/16/96	7	43000.	42314.286	57200.	20900.	214614761.905	14649.736	**	**	**	**
00480p	SALINITY - PARTS PER THOUSAND	10/21/87-07/16/96	9	28.2	30.167	38.2	19.1	59.288	7.7	19.1	22.75	37.75	38.2

** - 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 PAIS0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/09/69-07/16/96	12	5.	5.583	15.	1.	21.538	4.641	1.	1.25	10.	13.5
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/23/70-07/16/96	7	49280.	47640.	53400.	41400.	25018533.333	5001.853	**	**	**	**
00480p	SALINITY - PARTS PER THOUSAND	10/21/87-07/16/96	8	32.2	29.575	34.7	15.	41.931	6.475	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 PAIS0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/09/69-07/16/96	12	2.	4.5	15.	1.	19.	4.359	1.	2.	7.25	13.5
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/23/70-07/16/96	5	44960.	47950.	54000.	42410.	29551400.	5436.12	**	**	**	**
00480p	SALINITY - PARTS PER THOUSAND	10/21/87-07/16/96	9	28.1	28.578	35.8	23.	25.617	5.061	23.	23.1	33.75	35.8

** - 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 1995 - Station PAIS0019

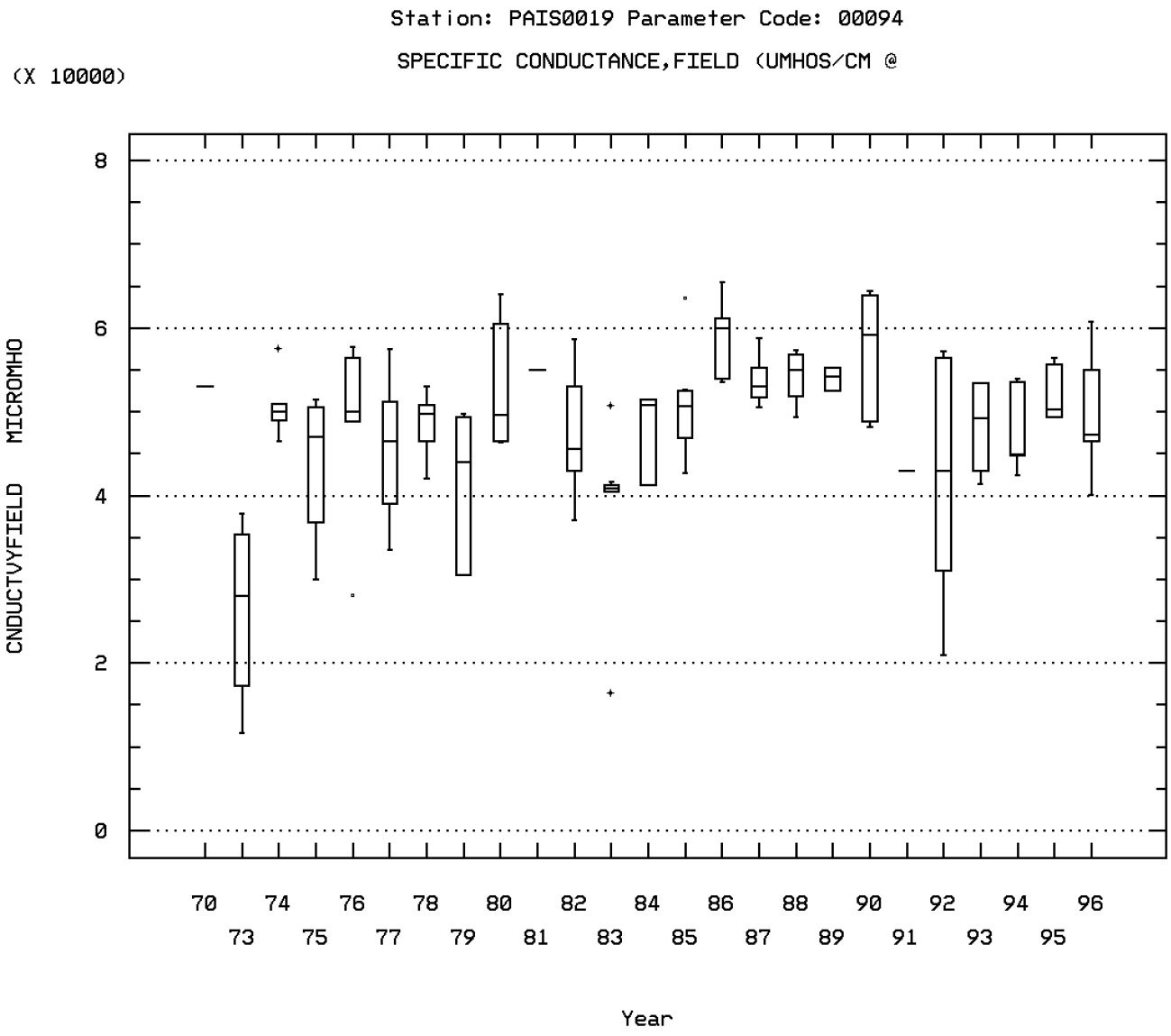
Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/09/69-07/16/96	14	2.	3.214	12.	1.	12.027	3.468	1.	1.	2.75	11.
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/23/70-07/16/96	5	50230.	52206.	56440.	49330.	12425030.	3524.916	**	**	**	**
00480p	SALINITY - PARTS PER THOUSAND	10/21/87-07/16/96	11	31.5	31.636	37.5	24.5	14.969	3.869	24.9	30.3	34.	37.4

** - 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 1996 - Station PAIS0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/09/69-07/16/96	15	5.	6.	15.	1.	20.714	4.551	1.	1.	10.	12.
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/23/70-07/16/96	11	47300.	49615.	60775.	40100.	49015705.	7001.122	40160.	46500.	55000.	60664.
00480p	SALINITY - PARTS PER THOUSAND	10/21/87-07/16/96	10	31.	32.27	40.7	25.3	27.1	5.206	25.31	29.075	37.025	40.58

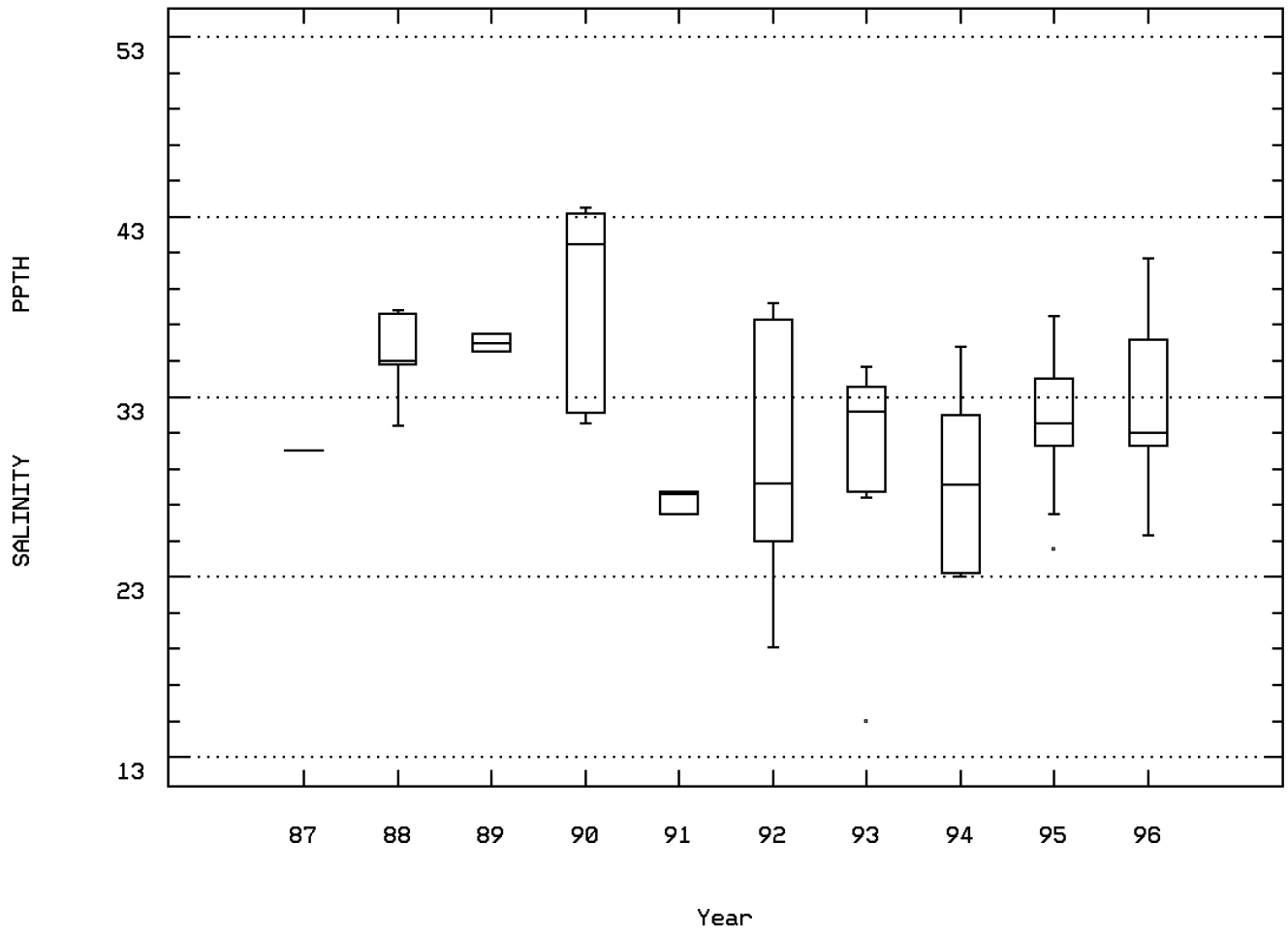
** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot



LAGUNA MADRE AT GIWW

Station: PAIS0019 Parameter Code: 00480

SALINITY - PARTS PER THOUSAND



LAGUNA MADRE AT GIWW

Seasonal Analysis for Season #1: 5/01 to 10/31 - Station PAIS0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/09/69-07/16/96	157	5.	5.331	15.	0.	21.043	4.587	1.	1.	10.	12.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/09/69-07/16/96	93	28.3	27.396	33.9	21.1	6.345	2.519	23.04	25.75	29.1	29.7
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	09/09/69-10/09/85	51	83.3	81.557	93.	70.	24.962	4.996	72.54	79.7	84.4	86.2
00070	TURBIDITY, (JACKSON CANDLE UNITS)	09/09/69-02/12/80	13	5.	10.385	35.	0.	118.423	10.882	0.	4.	13.5	33.
00077	TRANSPARENCY, SECCHI DISC (INCHES)	09/18/75-12/06/88	19	27.	28.158	60.	12.	124.474	11.157	14.	22.	30.	46.
00078	TRANSPARENCY, SECCHI DISC (METERS)	08/17/89-07/16/96	13	0.61	0.636	0.99	0.38	0.025	0.159	0.412	0.54	0.76	0.914
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/23/70-07/16/96	98	51100.	48813.98	65500.	11625.	114247938.123	10688.683	31040.	43000.	55875.	60707.5
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/09/69-07/07/87	30	67200.	64832.133	91280.	35000.	226812591.982	15060.299	42364.	52150.	76398.	84823.2
00300p	OXYGEN, DISSOLVED MG/L	09/09/69-07/16/96	95	6.2	6.213	11.5	1.5	1.595	1.263	4.96	5.5	6.8	7.44
00400p	PH (STANDARD UNITS)	10/07/70-07/16/96	85	8.3	8.196	8.8	6.8	0.161	0.401	7.6	8.	8.5	8.7
00400p	CONVERTED PH (STANDARD UNITS)	10/07/70-07/16/96	85	8.3	7.952	8.8	6.8	0.221	0.47	7.6	8.	8.5	8.7
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/07/70-07/16/96	85	0.005	0.011	0.158	0.002	0.	0.02	0.002	0.003	0.01	0.025
00403	PH, LAB, STANDARD UNITS SU	09/09/69-07/07/87	30	8.4	8.367	8.7	7.7	0.046	0.215	8.01	8.3	8.5	8.6
00403	CONVERTED PH, LAB, STANDARD UNITS	09/09/69-07/07/87	30	8.4	8.303	8.7	7.7	0.051	0.225	8.01	8.3	8.5	8.6
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/09/69-07/07/87	30	0.004	0.005	0.02	0.002	0.	0.004	0.003	0.003	0.005	0.01
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	02/06/78-05/15/96	31	122.	125.452	155.	102.	212.389	14.574	106.4	116.	137.	146.
00480	SALINITY - PARTS PER THOUSAND	10/21/87-07/16/96	41	32.1	32.039	43.2	15.	37.918	6.158	23.7	28.05	37.15	39.24
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/09/69-05/15/96	45	25.	29.689	87.	10.	252.446	15.889	12.6	18.	40.	52.8
00535p	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	09/09/69-05/15/96	44	8.	9.045	26.	1.	32.603	5.71	3.	5.	12.75	17.
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/09/69-05/15/96	45	0.04	0.08	1.	0.005	0.024	0.154	0.01	0.023	0.1	0.1
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/07/70-05/24/94	12	0.02	0.022	0.05	0.01	0.	0.012	0.01	0.011	0.028	0.047
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/09/69-05/24/94	42	0.018	0.045	0.6	0.005	0.011	0.103	0.005	0.01	0.03	0.074
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	09/09/69-10/09/85	28	0.135	0.173	0.8	0.06	0.02	0.143	0.069	0.09	0.225	0.28
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/11/73-10/09/85	19	0.03	0.058	0.21	0.015	0.003	0.058	0.015	0.03	0.1	0.15
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	09/09/69-05/15/96	45	0.05	0.066	0.34	0.02	0.003	0.058	0.026	0.03	0.075	0.108
00671p	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/11/73-05/15/96	36	0.02	0.026	0.07	0.005	0.	0.02	0.005	0.01	0.038	0.063
00680p	CARBON, TOTAL ORGANIC (MG/L AS C)	06/19/74-05/15/96	34	4.	4.441	18.	0.5	16.421	4.052	0.5	0.875	5.25	10.5
00940p	CHLORIDE,TOTAL IN WATER MG/L	09/09/69-05/15/96	45	18500.	18285.578	29800.	4620.	20391377.795	4515.681	11412.	16350.	21280.	22853.2
00945p	SULFATE, TOTAL (MG/L AS SO4)	07/23/70-05/15/96	44	2750.	2528.182	3400.	286.	489485.641	699.633	1452.	2198.75	2967.5	3260.
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	03/17/75-08/05/81	11	0.	1.364	5.	0.	3.855	1.963	0.	0.	2.	5.
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	03/17/75-08/05/81	11	0.	0.182	0.699	0.	0.079	0.282	0.	0.	0.301	0.699
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			1.52								
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	03/17/75-07/16/96	25 ##	4.5	4.48	10.	1.5	2.677	1.636	3.5	3.5	5.	7.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	03/17/75-07/16/96	25 ##	0.653	0.626	1.	0.176	0.023	0.151	0.544	0.544	0.699	0.845
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			4.23								
31619p	FECAL COLIFORM,MPN,BORIC ACID LACTOSE BR,43C,48HR	10/07/70-08/22/95	15	2.	6.967	63.	0.	271.874	16.489	0.	0.5	2.	39.
31619p	LOG FECAL COLIFORM,MPN,BORIC ACID LACTOSE BR,43C,4	10/07/70-08/22/95	15	0.301	0.371	1.799	-0.301	0.281	0.53	0.	-0.301	0.301	1.537
31619p	GM FECAL COLIFORM,MPN,BORIC ACID LACTOSE BR,43C,48	GEOMETRIC MEAN =			2.351								
32211p	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	02/23/72-05/15/96	35	5.	6.748	23.7	0.5	34.216	5.849	0.8	3.	9.6	16.62
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	02/06/78-05/15/96	27	1.6	2.684	14.	0.	9.419	3.069	0.	1.	4.47	6.76

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

Seasonal Analysis for Season #2: 11/01 to 4/30 - Station PAIS0019

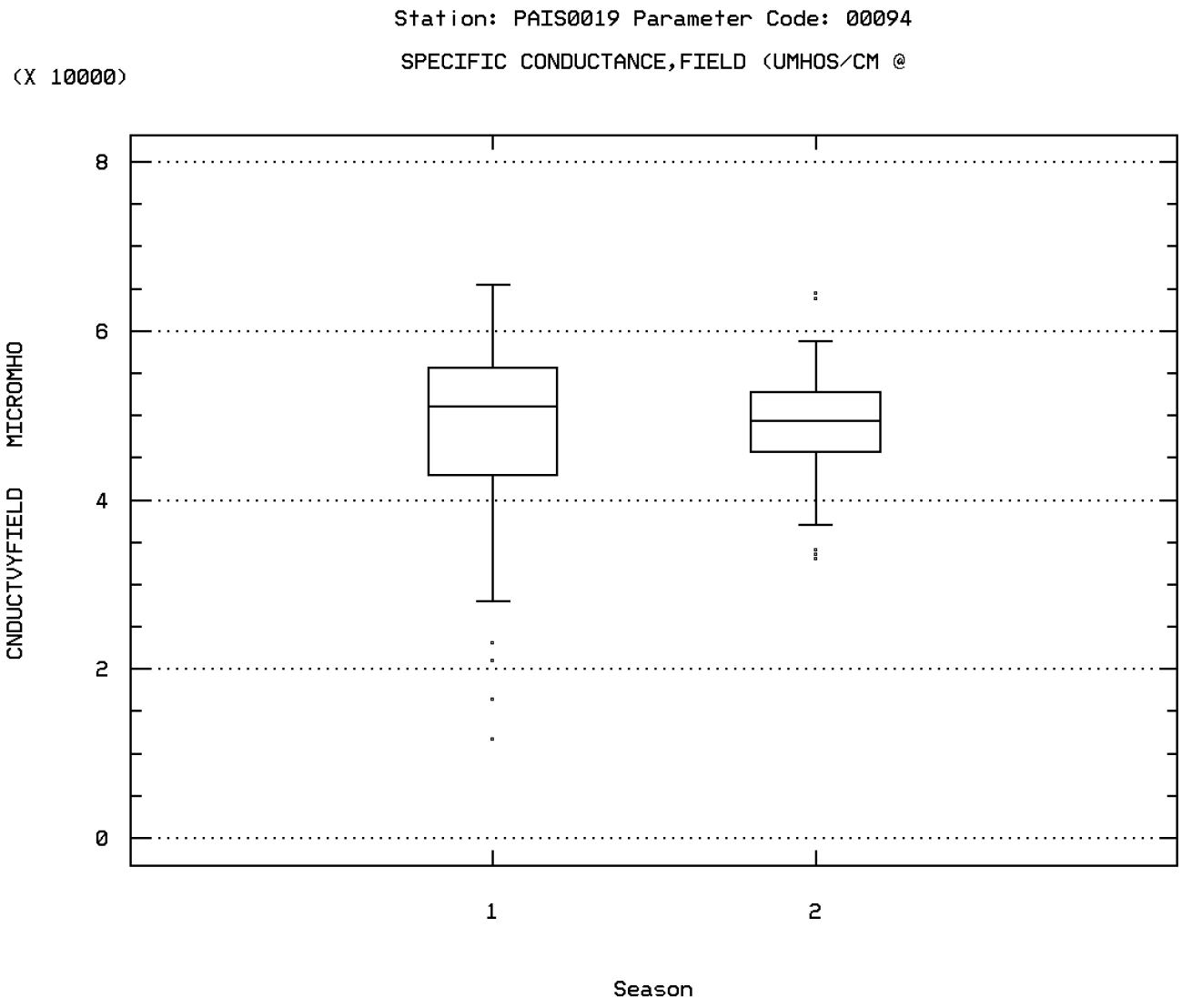
Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/09/69-07/16/96	103	5.	4.777	15.	1.	17.94	4.236	1.	1.	8.	10.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/09/69-07/16/96	62	19.9	18.863	25.6	8.2	21.33	4.618	11.16	15.425	22.5	24.61
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	09/09/69-10/09/85	38	68.45	65.724	78.	49.5	69.062	8.31	52.	58.8	72.5	74.82
00070	TURBIDITY, (JACKSON CANDLE UNITS)	09/09/69-02/12/80	12	14.5	20.5	80.	0.	467.909	21.631	0.3	6.25	28.75	65.9
00077	TRANSPARENCY, SECCHI DISC (INCHES)	09/18/75-12/06/88	16	29.5	28.313	42.	15.	49.829	7.059	17.1	24.	32.75	37.8
00078	TRANSPARENCY, SECCHI DISC (METERS)	08/17/89-07/16/96	6	0.82	0.89	1.5	0.2	0.243	0.493	**	**	**	**
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/23/70-07/16/96	64	49400.	48773.125	64400.	33000.	40203199.603	6340.599	40250.	45625.	52825.	56250.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/09/69-07/07/87	26	60956.	57420.154	77952.	33200.	187026298.535	13675.756	37361.	45441.5	67746.	75768.
00300p	OXYGEN, DISSOLVED MG/L	09/09/69-07/16/96	61	7.8	7.826	11.	3.7	1.547	1.244	6.64	7.2	8.5	9.38
00400p	PH (STANDARD UNITS)	10/07/70-07/16/96	54	8.2	8.15	8.7	6.8	0.095	0.309	7.8	8.	8.3	8.5
00400p	CONVERTED PH (STANDARD UNITS)	10/07/70-07/16/96	54	8.2	7.975	8.7	6.8	0.126	0.356	7.8	8.	8.3	8.5

** - 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: 11/01 to 4/30 - Station PAIS0019

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	10/07/70-07/16/96	54	0.006	0.011	0.158	0.002	0.	0.021	0.003	0.005	0.01	0.016
00403	PH, LAB, STANDARD UNITS SU	09/09/69-07/07/87	26	8.3	8.231	8.7	7.4	0.058	0.241	7.94	8.175	8.3	8.5
00403	CONVERTED PH, LAB, STANDARD UNITS	09/09/69-07/07/87	26	8.3	8.142	8.7	7.4	0.066	0.258	7.94	8.175	8.3	8.5
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/09/69-07/07/87	26	0.005	0.007	0.04	0.002	0.	0.007	0.003	0.005	0.007	0.012
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	02/06/78-05/15/96	25	148.	149.2	178.	116.	226.917	15.064	128.4	141.5	160.	171.8
00480	SALINITY - PARTS PER THOUSAND	10/21/87-07/16/96	23	31.4	31.13	43.5	23.	29.147	5.399	23.72	25.4	34.8	39.58
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/09/69-05/15/96	36	28.	38.194	154.	5.	1070.961	32.726	8.8	17.25	47.75	81.6
00535p	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	09/09/69-05/15/96	36	9.5	11.875	47.	2.	89.791	9.476	2.85	5.25	15.75	21.
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/09/69-05/15/96	37	0.05	0.09	1.	0.005	0.026	0.163	0.01	0.023	0.1	0.182
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/07/70-05/24/94	5 ##	0.015	0.014	0.02	0.005	0.	0.005	**	**	**	**
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/09/69-05/24/94	33	0.02	0.052	0.65	0.005	0.013	0.113	0.005	0.01	0.05	0.104
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	09/09/69-10/09/85	25	0.15	0.154	0.43	0.03	0.012	0.11	0.036	0.07	0.18	0.382
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/11/73-10/09/85	20	0.03	0.038	0.18	0.015	0.002	0.044	0.015	0.015	0.03	0.14
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	09/09/69-05/15/96	37	0.05	0.055	0.14	0.01	0.001	0.032	0.018	0.035	0.06	0.112
00671p	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/11/73-05/15/96	31	0.01	0.021	0.06	0.005	0.	0.018	0.005	0.005	0.04	0.05
00680p	CARBON, TOTAL ORGANIC (MG/L AS C)	06/19/74-05/15/96	26	5.	5.385	17.	0.5	17.126	4.138	0.5	2.5	8.25	11.3
00940p	CHLORIDE,TOTAL IN WATER MG/L	09/09/69-05/15/96	36	17448.	18020.278	37000.	10810.	26560490.492	5153.687	11870.	15100.	19855.	23440.
00945p	SULFATE, TOTAL (MG/L AS SO4)	07/23/70-05/15/96	35	2560.	2437.2	3780.	26.	449452.929	670.413	1476.8	2054.	2800.	3080.
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	03/17/75-08/05/81	7	0.	9.714	50.	0.	349.905	18.706	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	03/17/75-08/05/81	7	0.	0.458	1.699	0.	0.493	0.702	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			2.869								
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	03/17/75-07/16/96	21 ##	4.5	4.667	12.	3.5	3.683	1.919	3.5	3.5	5.	6.6
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	03/17/75-07/16/96	21 ##	0.653	0.646	1.079	0.544	0.018	0.132	0.544	0.544	0.699	0.816
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			4.425								
31619p	FECAL COLIFORM,MPN,BORIC ACID LACTOSE BR,43C,48HR	10/07/70-08/22/95	9	2.	2.	2.	2.	0.	0.	2.	2.	2.	2.
31619p	LOG FECAL COLIFORM,MPN,BORIC ACID LACTOSE BR,43C,4	10/07/70-08/22/95	9	0.301	0.301	0.301	0.301	0.	0.	0.301	0.301	0.301	0.301
31619p	GM FECAL COLIFORM,MPN,BORIC ACID LACTOSE BR,43C,48	GEOMETRIC MEAN =			2.								
32211p	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	02/23/72-05/15/96	31	7.	13.225	66.	0.5	275.237	16.59	2.	4.	13.	37.8
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	02/06/78-05/15/96	22 ##	2.35	3.329	31.2	0.	42.071	6.486	0.	0.875	2.643	7.1

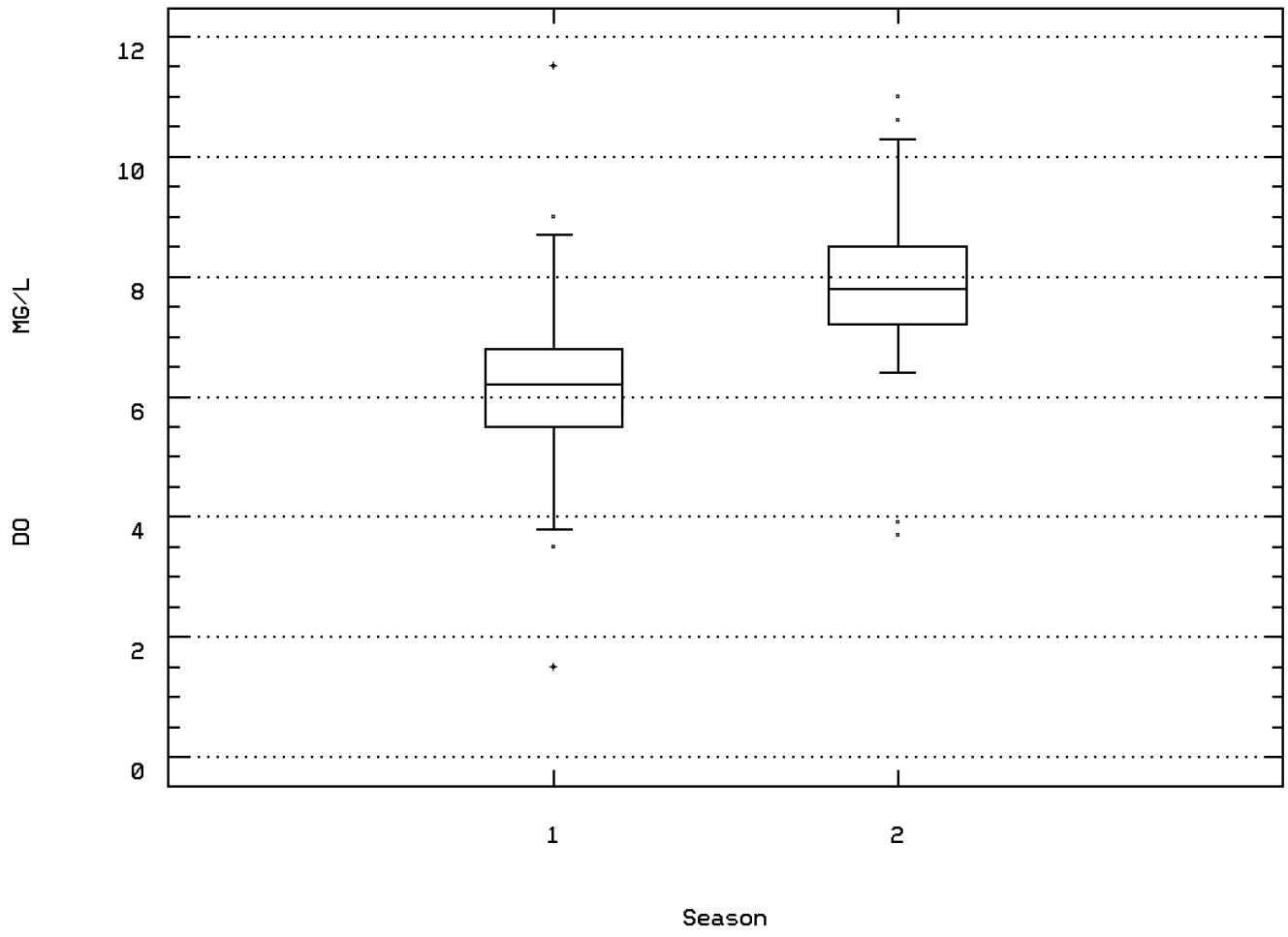
** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot



LAGUNA MADRE AT GIWW

Station: PAIS0019 Parameter Code: 00300

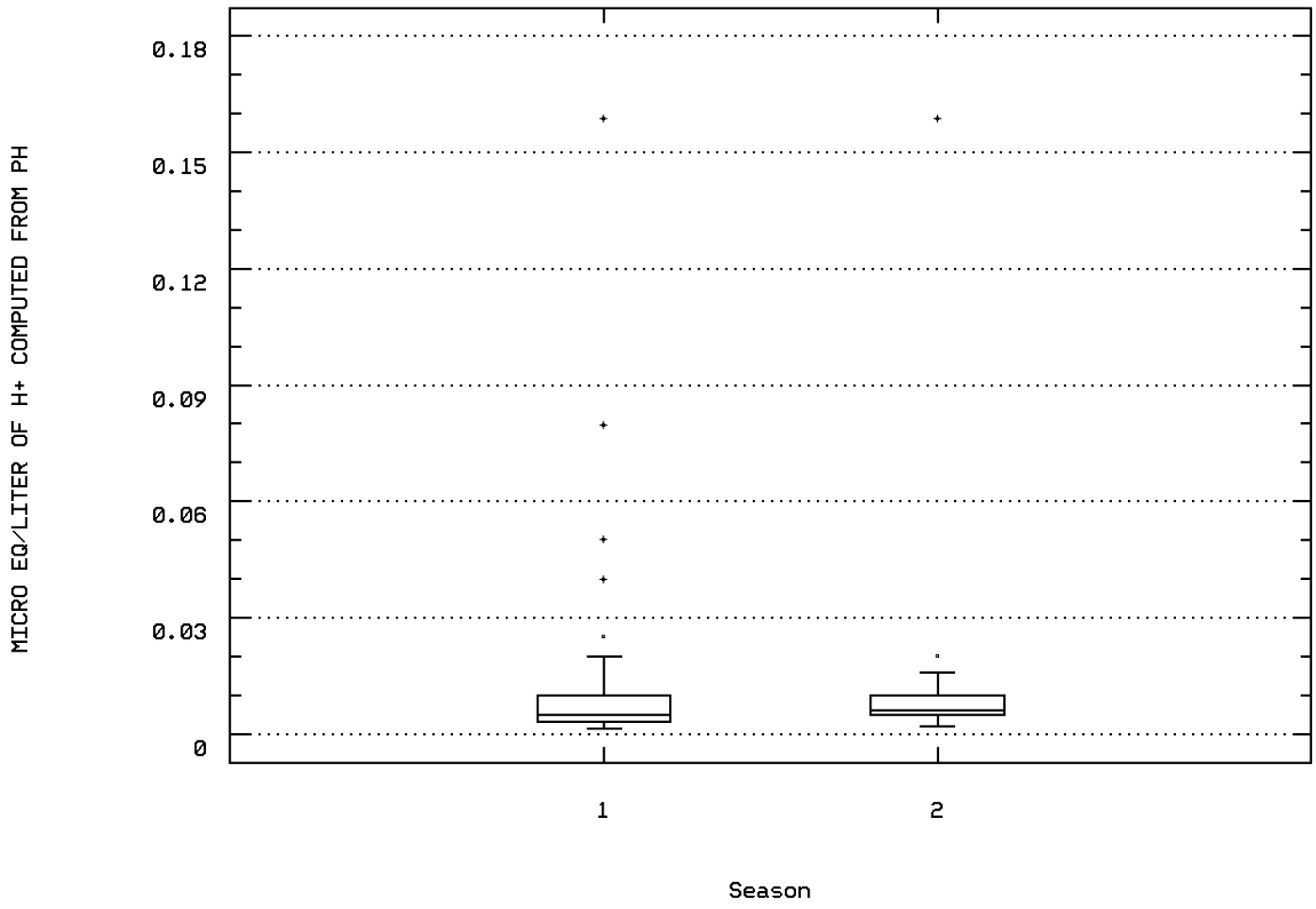
OXYGEN, DISSOLVED



LAGUNA MADRE AT GIWW

Station: PAIS0019 Parameter Code: 00400

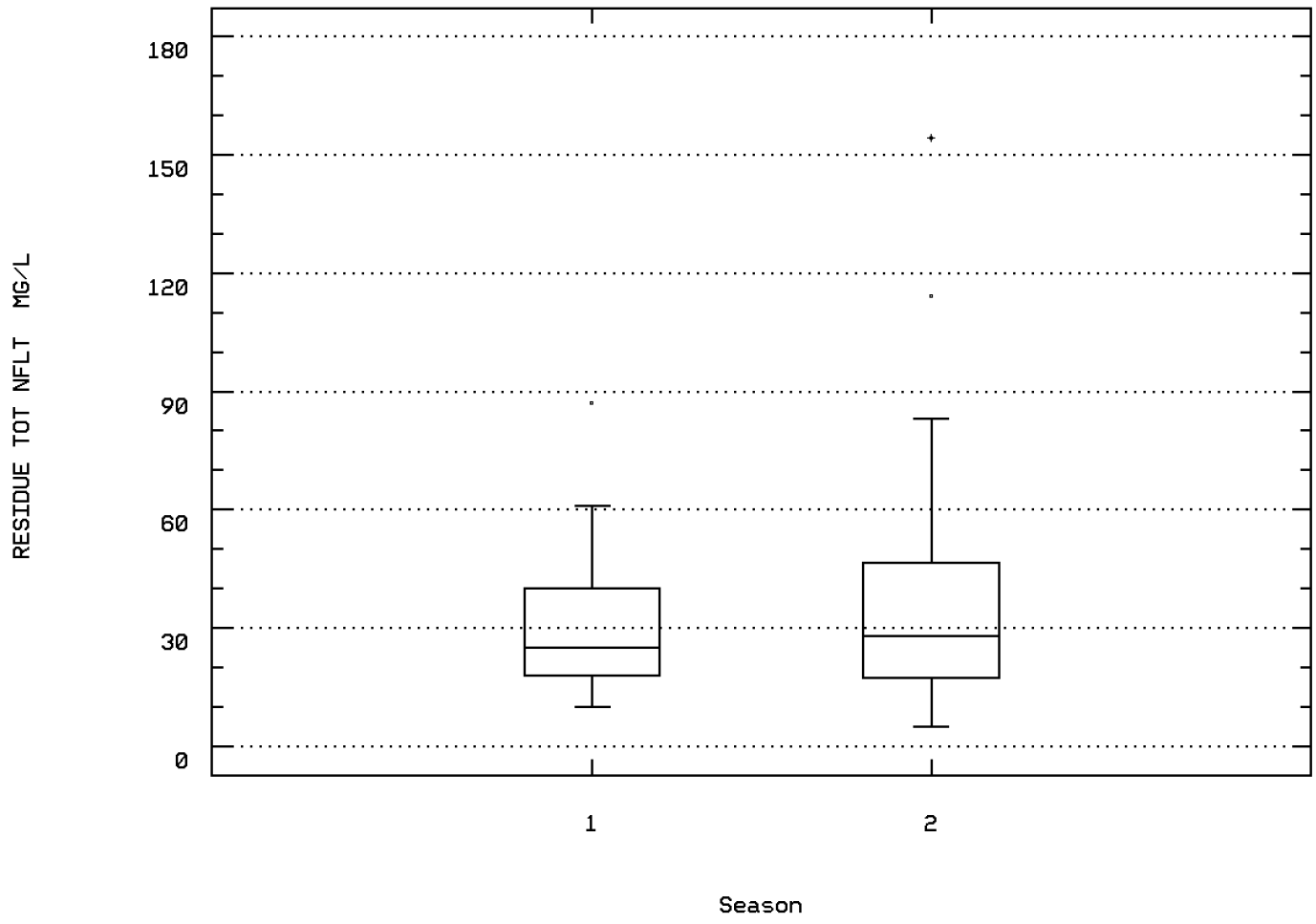
MICRO EQ/LITER OF H+ COMPUTED FROM PH



LAGUNA MADRE AT GIWW

Station: PAIS0019 Parameter Code: 00530

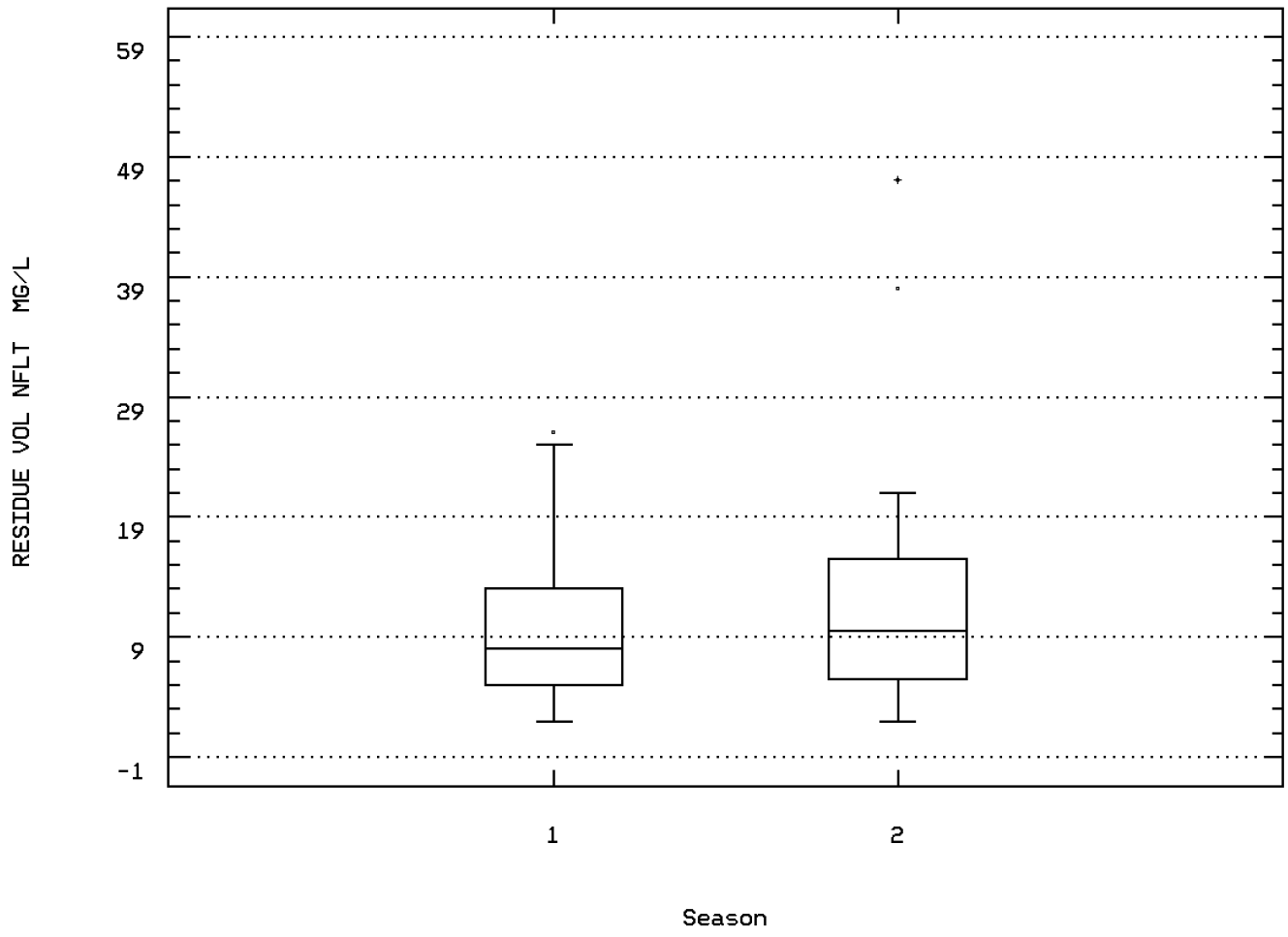
RESIDUE, TOTAL NONFILTRABLE (MG/L)



LAGUNA MADRE AT GIWW

Station: PAIS0019 Parameter Code: 00535

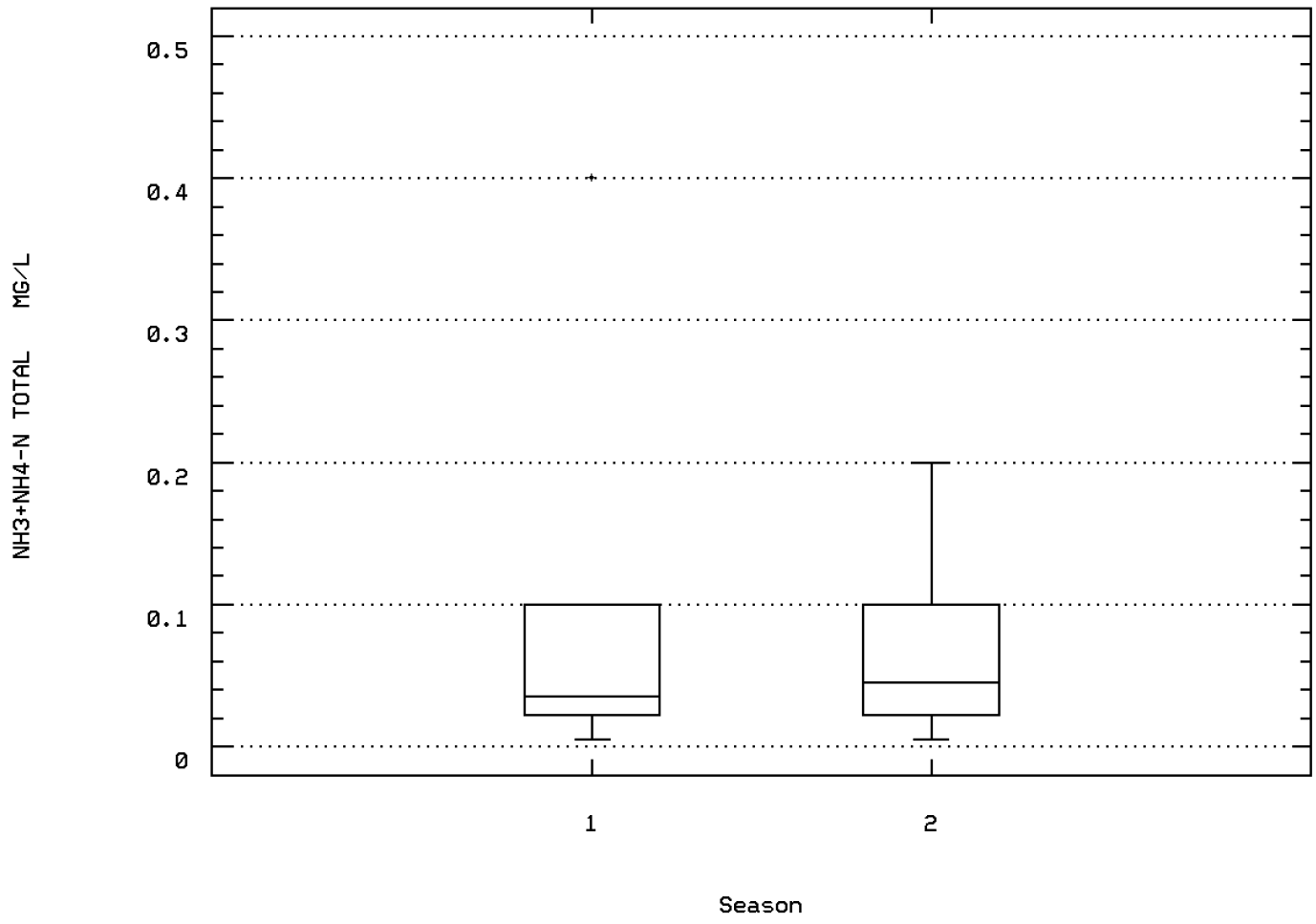
RESIDUE, VOLATILE NONFILTRABLE (MG/L)



LAGUNA MADRE AT GIWW

Station: PAIS0019 Parameter Code: 00610

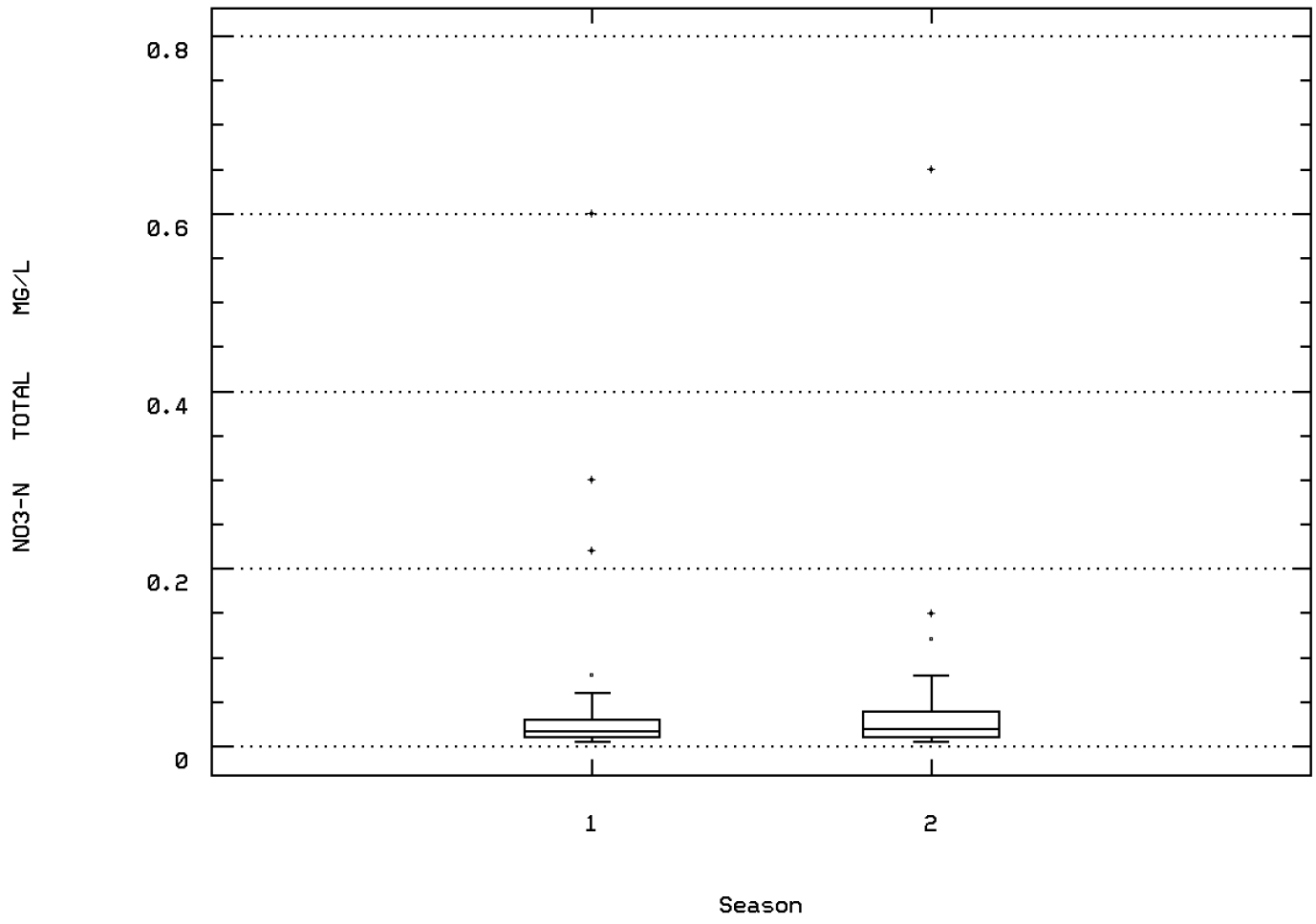
NITROGEN, AMMONIA, TOTAL (MG/L AS N)



LAGUNA MADRE AT GIWW

Station: PAIS0019 Parameter Code: 00620

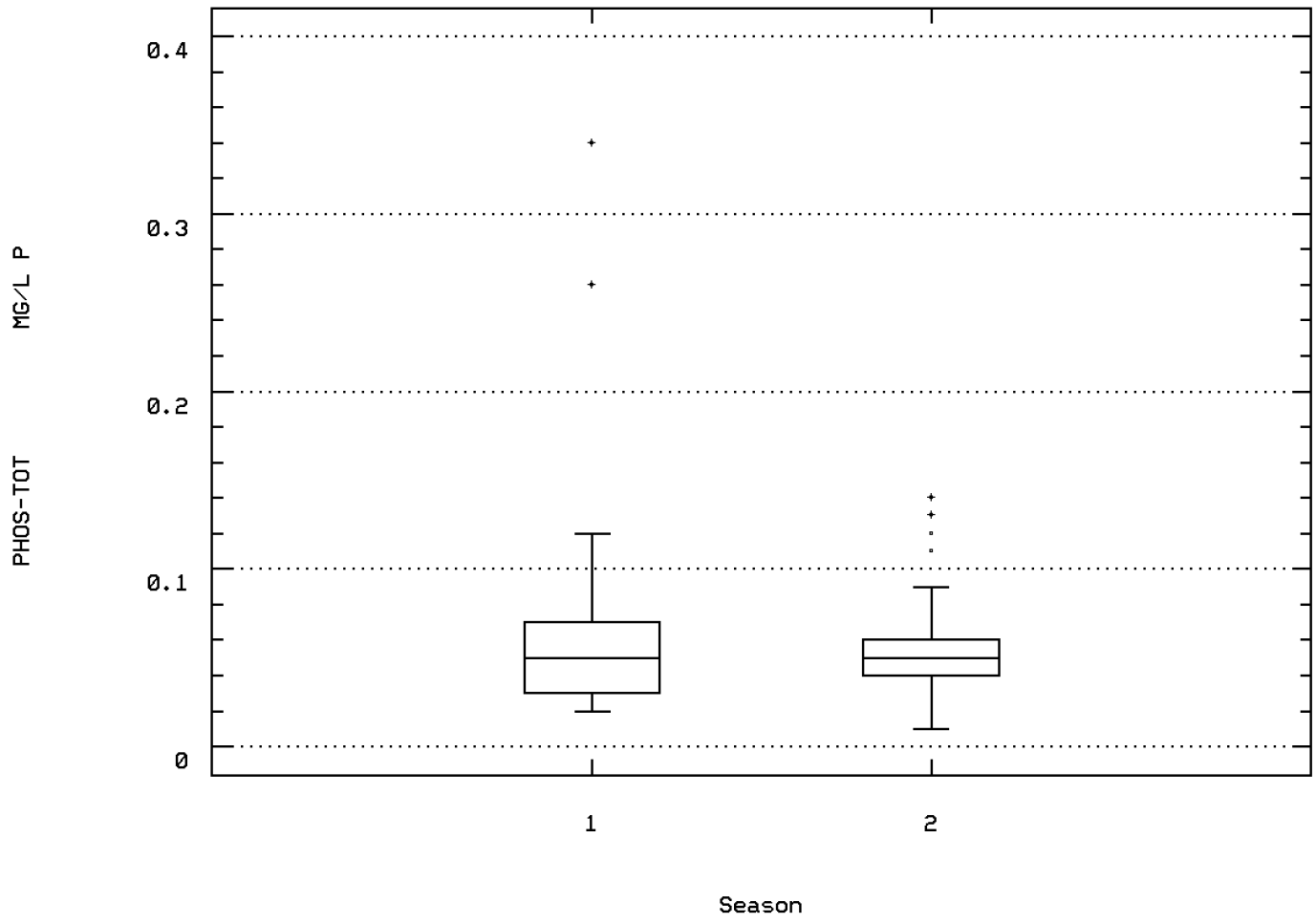
NITRATE NITROGEN, TOTAL (MG/L AS N)



LAGUNA MADRE AT GIWW

Station: PAIS0019 Parameter Code: 00665

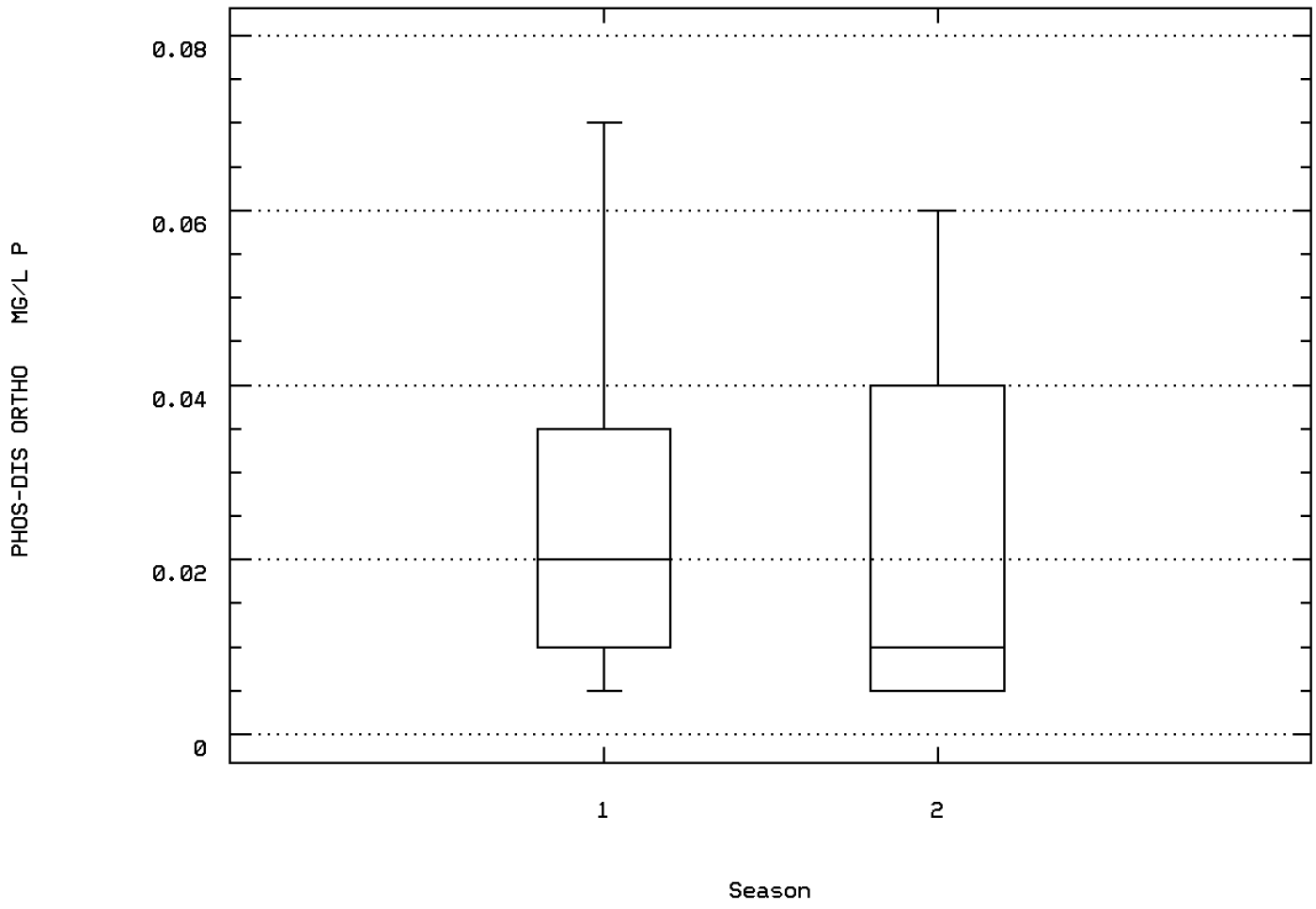
PHOSPHORUS, TOTAL (MG/L AS P)



LAGUNA MADRE AT GIWW

Station: PAIS0019 Parameter Code: 00671

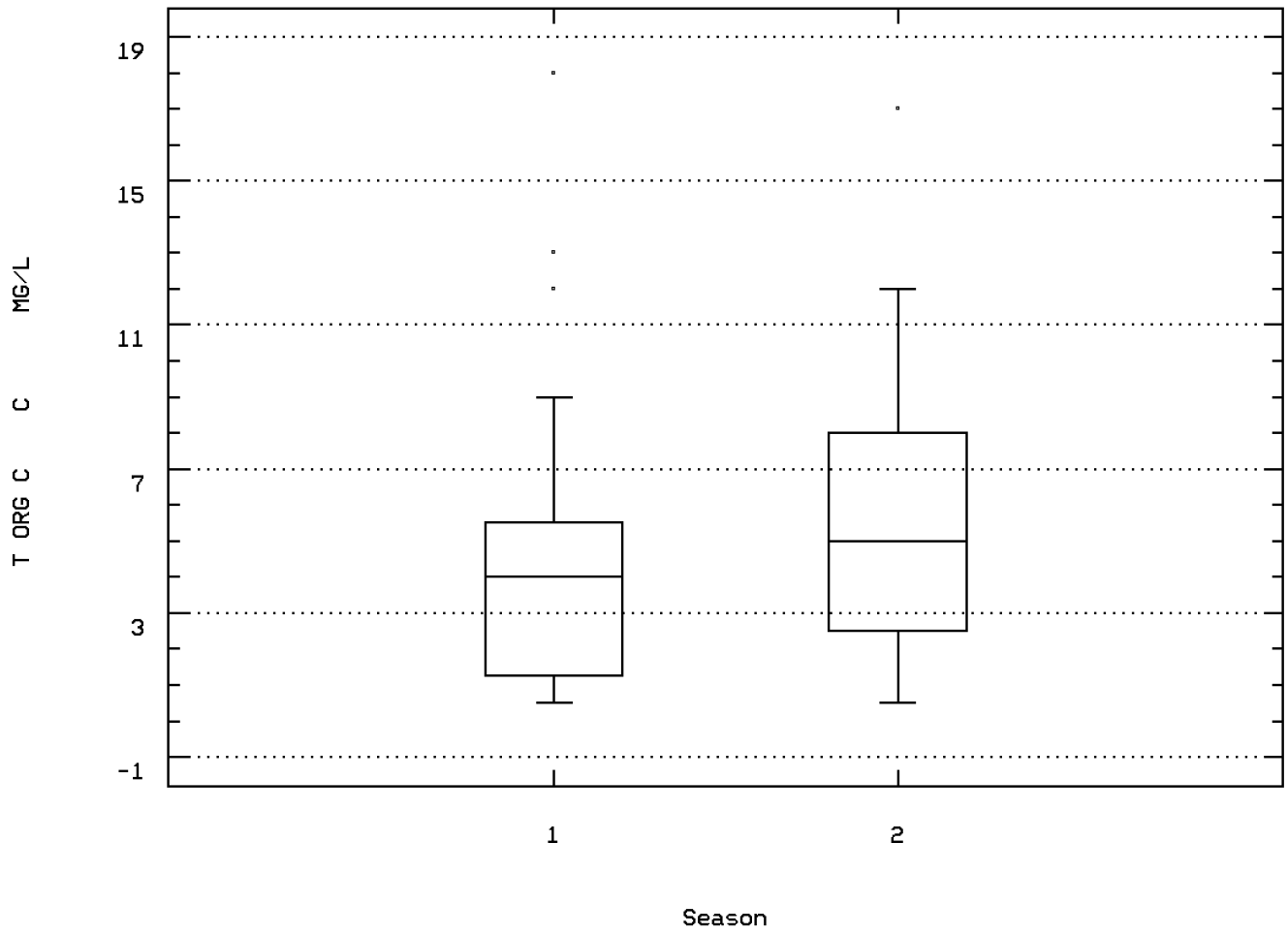
PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (M



LAGUNA MADRE AT GIWW

Station: PAIS0019 Parameter Code: 00680

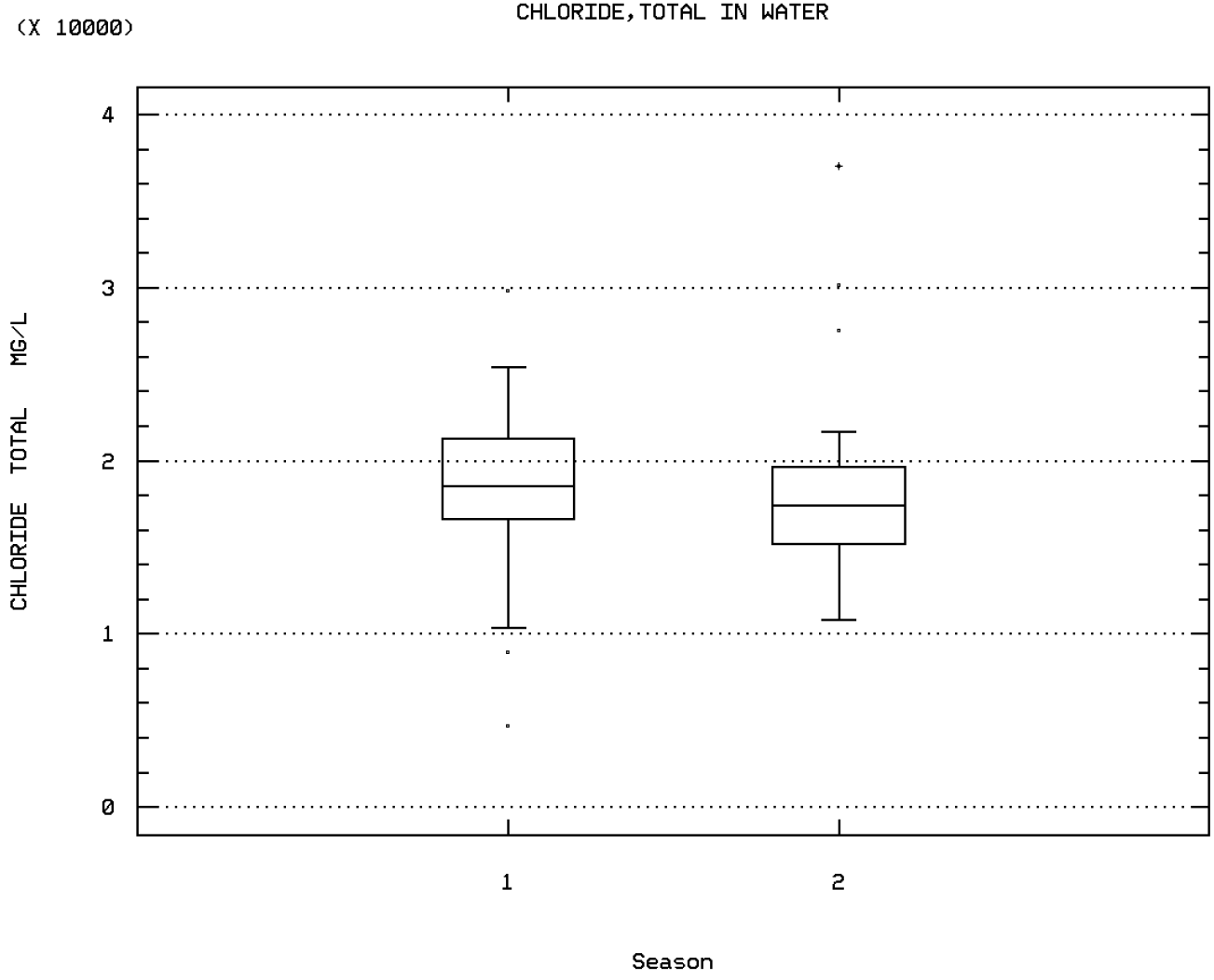
CARBON, TOTAL ORGANIC (MG/L AS C)



LAGUNA MADRE AT GIWW

Station: PAIS0019 Parameter Code: 00940

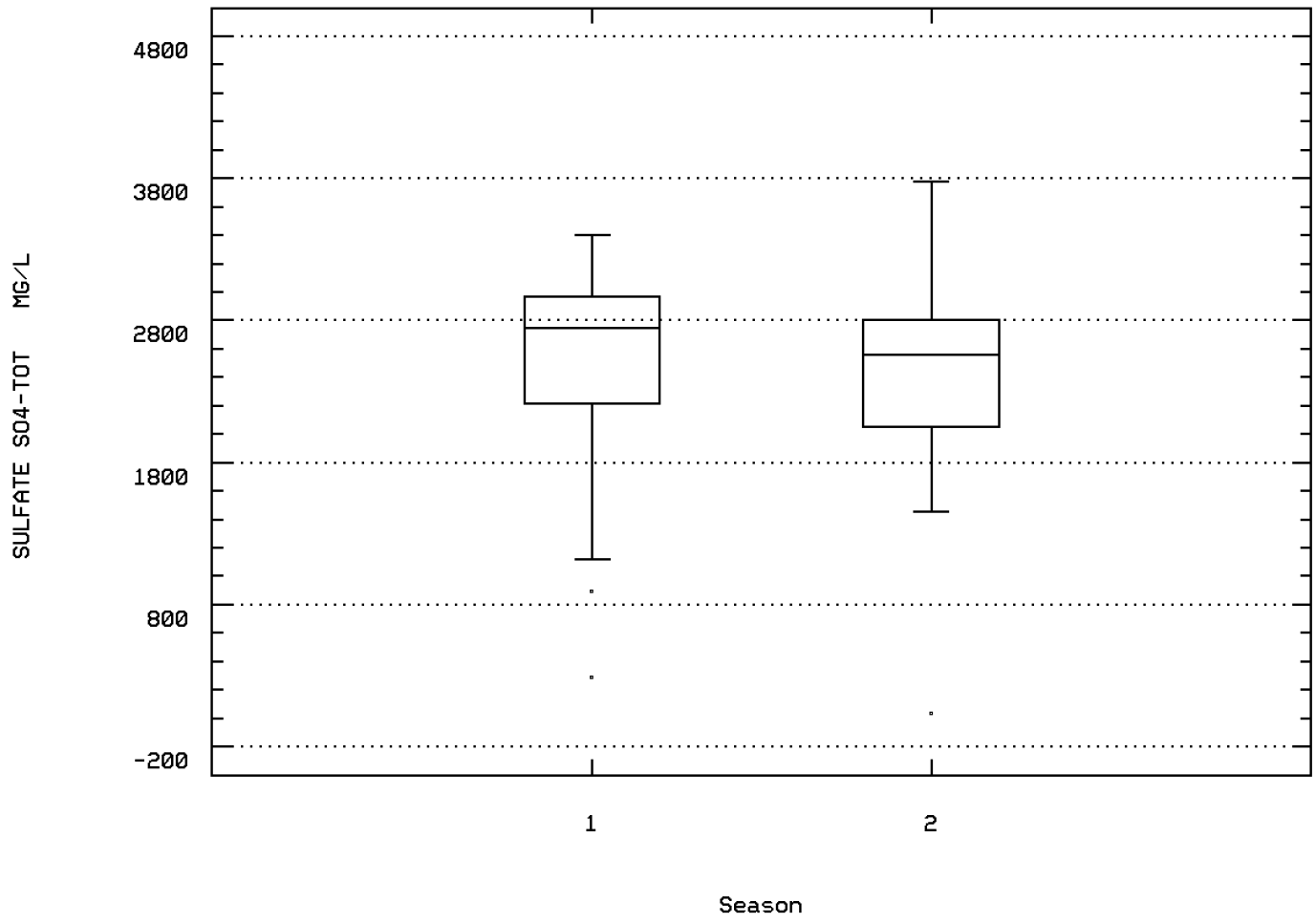
CHLORIDE,TOTAL IN WATER



LAGUNA MADRE AT GIWW

Station: PAIS0019 Parameter Code: 00945

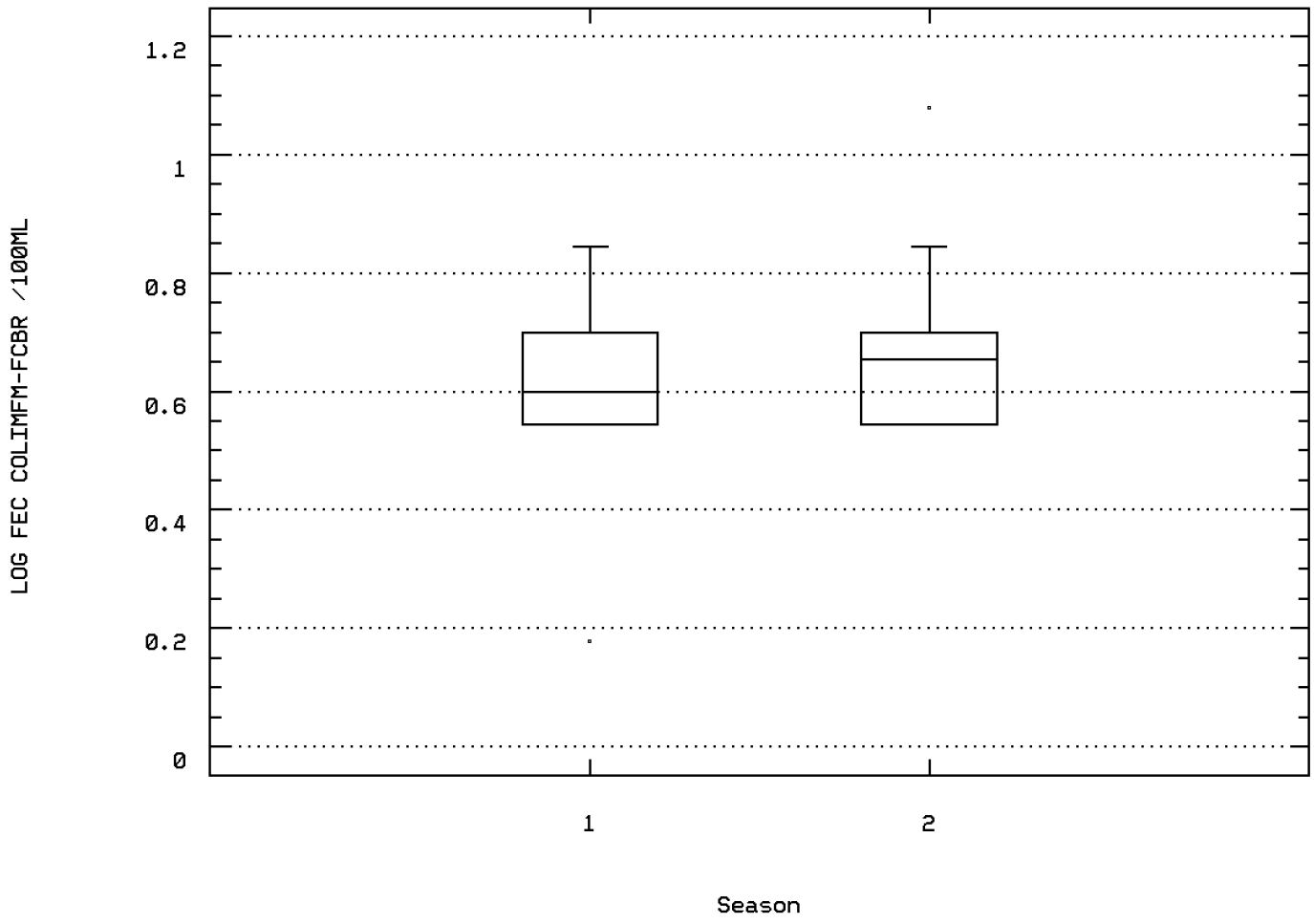
SULFATE, TOTAL (MG/L AS SO4)



LAGUNA MADRE AT GIWW

Station: PAIS0019 Parameter Code: 31616

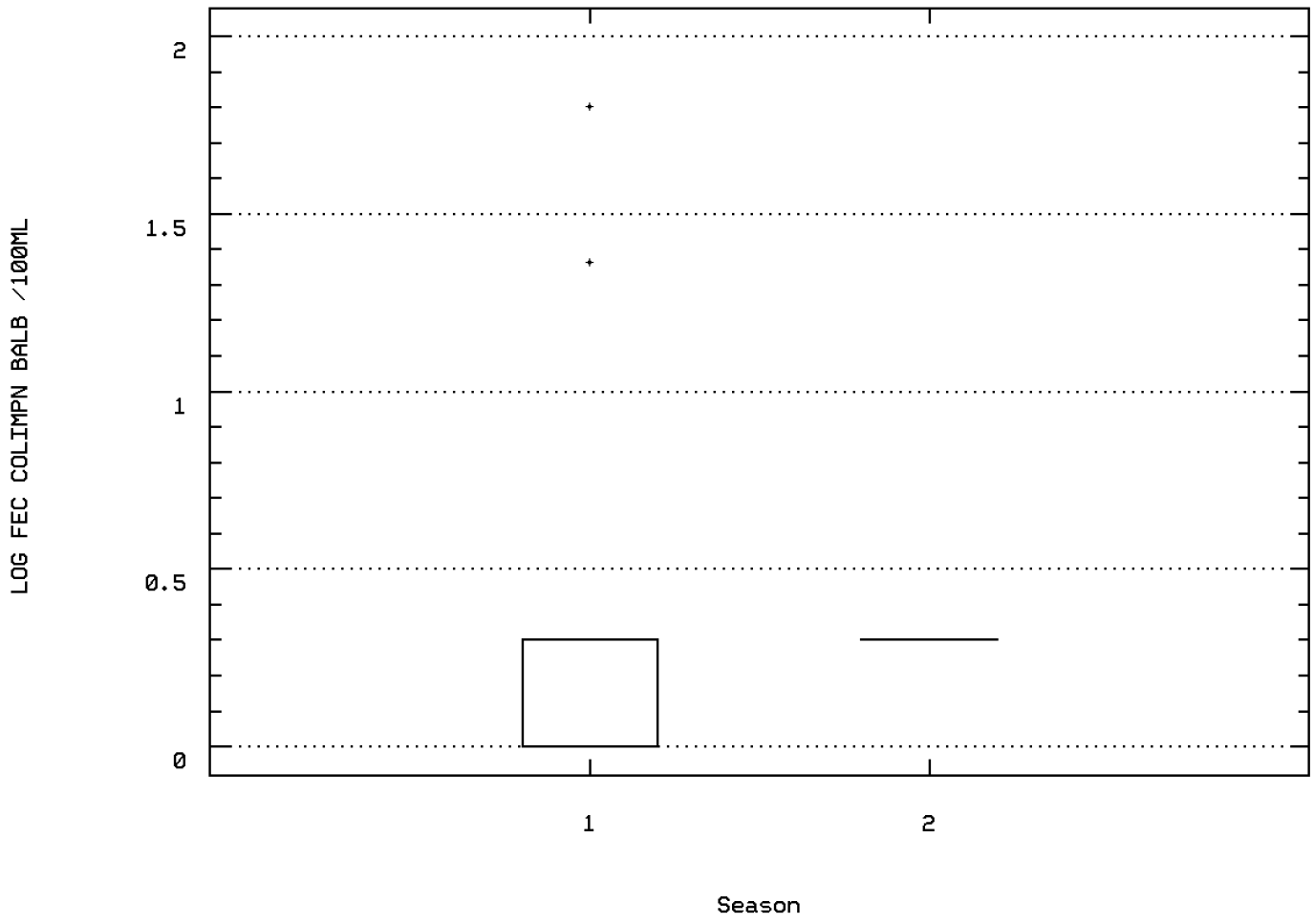
LOG FECAL COLIFORM,MEMBR FILTER,M-FC BR



LAGUNA MADRE AT GIWW

Station: PAIS0019 Parameter Code: 31619

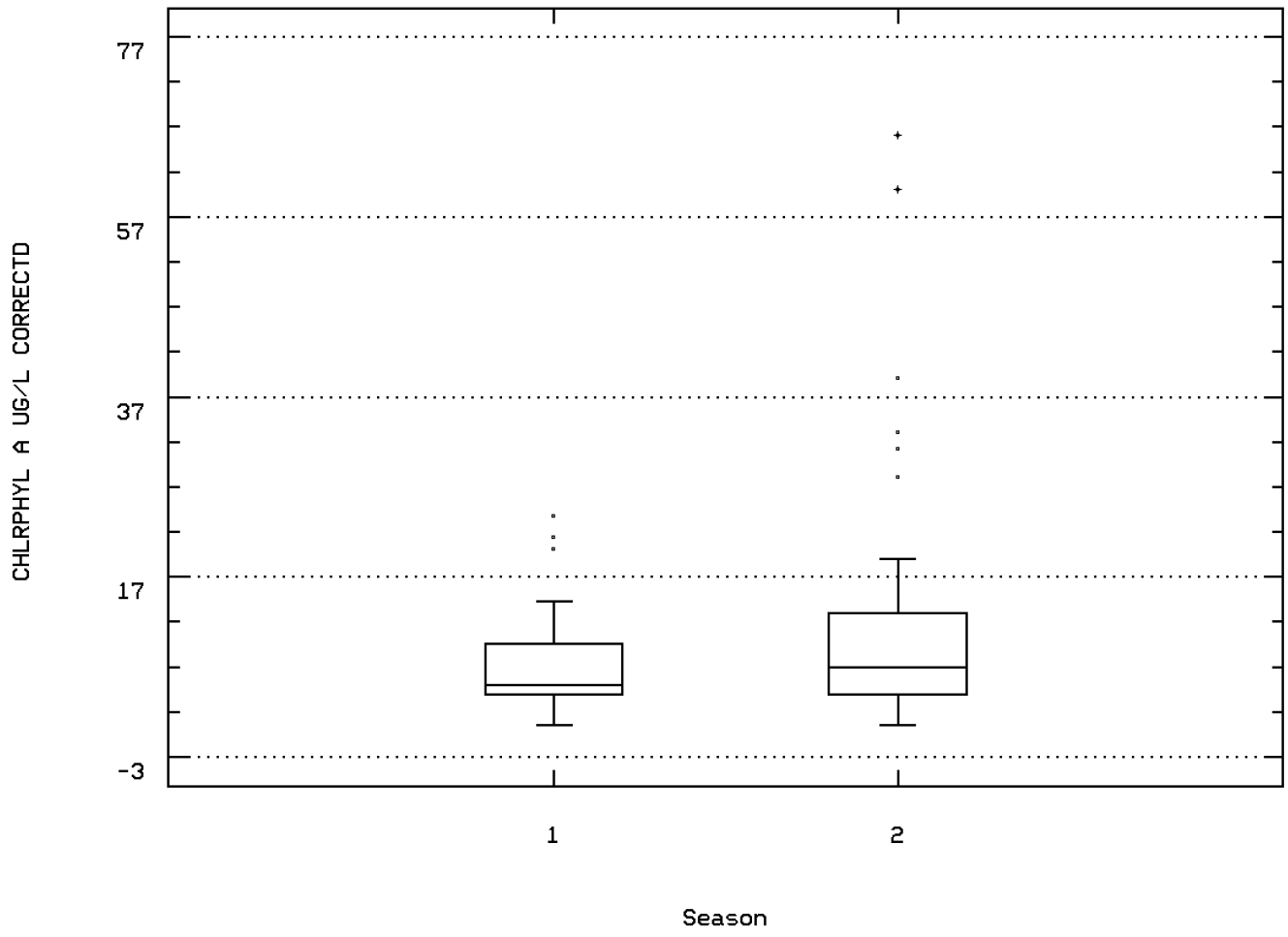
LOG FECAL COLIFORM,MPN,BORIC ACID LACTO



LAGUNA MADRE AT GIWW

Station: PAIS0019 Parameter Code: 32211

CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC A



LAGUNA MADRE AT GIWW

Station Inventory for Station: PAIS0020

NPS Station ID: PAIS0020
LAT/LON: 26.570837/ -97.244448
Agency: 112WRD
Date Created: 06/16/79
Location: 1290290LAGUNA MADRE ES LINE 902 SITE 90
FIPS State/County: 48061 TEXAS/CAMERON
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): 263415097144000
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC:
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index:
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208239300.00
RF3 Mile Point: 17.84
Distance from RF3: 0.83
On/Off RF3:
Description:

Parameter Inventory for Station: PAIS0020

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	04/11/79-03/29/82	14	22.	23.643	52.	1.	352.093	18.764	1.	1.	42.5	48.5
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/11/79-03/29/82	14	21.	21.464	25.	19.	3.979	1.995	19.	20.125	22.625	24.75
00078	TRANSPARENCY, SECCHI DISC (METERS)	07/16/80-12/15/81	2	2.6	2.6	2.64	2.56	0.003	0.057	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/11/79-03/29/82	14	49450.	49828.571	61000.	42400.	28754505.495	5362.323	43850.	45900.	50825.	60500.
00300	OXYGEN, DISSOLVED MG/L	04/11/79-03/29/82	14	6.7	6.643	7.3	5.9	0.146	0.382	5.95	6.525	6.85	7.2
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	04/11/79-03/29/82	14	90.	90.714	103.	85.	24.681	4.968	85.5	88.	91.25	101.5
00400	PH (STANDARD UNITS)	04/11/79-03/29/82	14	8.1	8.114	8.4	7.9	0.021	0.146	7.95	8.	8.225	8.35
00400	CONVERTED PH (STANDARD UNITS)	04/11/79-03/29/82	14	8.1	8.093	8.4	7.9	0.022	0.148	7.95	8.	8.225	8.35
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/11/79-03/29/82	14	0.008	0.008	0.013	0.004	0.	0.002	0.004	0.006	0.01	0.011
00600	NITROGEN, TOTAL (MG/L AS N)	04/11/79-07/16/80	4	0.305	0.405	0.9	0.11	0.133	0.365	**	**	**	**
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	04/11/79-03/29/82	6	0.385	0.37	0.88	0.05	0.088	0.296	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/11/79-03/29/82	8	0.043	0.051	0.13	0.	0.002	0.047	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/11/79-03/29/82	8	## 0.01	0.009	0.01	0.005	0.	0.002	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/11/79-07/16/80	4	0.01	0.013	0.03	0.	0.	0.013	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/11/79-03/29/82	8	0.505	0.469	0.88	0.1	0.064	0.252	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/11/79-03/29/82	8	## 0.05	0.04	0.05	0.01	0.	0.016	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	04/11/79-04/11/79	2	0.075	0.075	0.09	0.06	0.	0.021	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/11/79-03/29/82	8	0.015	0.031	0.12	0.005	0.002	0.039	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	04/11/79-03/29/82	7	2.	2.2	3.2	1.3	0.463	0.681	**	**	**	**
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	04/11/79-07/16/80	4	0.03	0.03	0.06	0.	0.001	0.035	**	**	**	**
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	04/11/79-12/15/81	6	0.075	0.122	0.37	0.03	0.017	0.13	**	**	**	**
71887	NITROGEN, TOTAL, AS NO3 - MG/L	04/11/79-07/16/80	4	1.35	1.8	4.	0.5	2.593	1.61	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: PAIS0020

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	5/01-10/31 Obs	5/01-10/31 Exceed	5/01-10/31 Prop.	11/01-4/30 Obs	11/01-4/30 Exceed	11/01-4/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	14	0	0.00	3	0	0.00	11	0	0.00						
00400	PH	Marine Chronic	8.5	14	0	0.00	3	0	0.00	11	0	0.00						
		Other-Lo Lim.	6.5	14	0	0.00	3	0	0.00	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: PAIS0021

NPS Station ID: PAIS0021
LAT/LON: 26.585781/ -97.375198
Agency: 11NPSWRD
Date Created: 03/06/99
Location: SOUTH LAGUNA MADRE
FIPS State/County: 48489 TEXAS/WILLACY
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_CONO_SLM
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110208
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110208
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PORT MANSFIELD TEXAS 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT SOUTH LAGUNA MADRE. DATA WERE COLLECTED ALONG SEVERAL TRANSECTS IN THE SOUTH LAGUNA MADRE. THIS SITE IS CENTRALLY LOCATED TO ALL THE TRANSECTS AND AVERAGED FOR THE MONTH. DATA ARE FROM A REPORT BY JOHN T. CONOVER; "THE ECOLOGY; SEASONAL PERIODICITY; AND DISTRIBUTION OF BENTHIC PLANTS IN SOME TEXAS LAGOONS;" OCTOBER 1963. THE PURPOSE OF THIS REPORT WAS TO "STUDY THE LOCAL EFFECTS OF LIGHT; TEMPERATURE; AND SALINITY ON THE SEASONAL GROWTH OF PLANTS." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0021

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: PAIS0022

NPS Station ID: PAIS0022
LAT/LON: 26.587781/ -97.423059
Agency: 112WRD
Date Created: 09/26/78
Location: 1218803LAGUNA MADRE ES LINE 188 SITE 03
FIPS State/County: 48489 TEXAS/WILLACY
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): 263516097252300
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110208
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 12110208001
RF1 Mile Point: 0.680
Distance from RF1: 18.80
On/Off RF1: ON
RF3 Index: 12110207177000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: PAIS0022

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/22/68-03/29/82	100	2.5	4.211	15.	0.1	16.947	4.117	1.	1.	5.75	11.9
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/22/68-03/29/82	88	25.05	23.94	32.5	9.5	20.516	4.529	17.59	20.4	27.	28.82
00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/23/73-02/11/76	46	23.5	37.428	250.	5.	1896.929	43.554	10.	13.75	40.	87.47
00078	TRANSPARENCY, SECCHI DISC (METERS)	08/22/68-03/29/82	32	0.735	1.036	6.1	0.22	1.392	1.18	0.356	0.57	1.073	1.255
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/22/68-03/29/82	88	48500.	48669.318	61000.	26500.	44836863.898	6696.033	40000.	46000.	53500.	57900.
00300p	OXYGEN, DISSOLVED MG/L	08/22/68-03/29/82	88	6.7	6.877	16.5	2.2	4.95	2.225	5.09	5.7	7.2	8.61
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/22/68-03/29/82	89	94.	97.56	216.9	33.	792.714	28.155	74.	86.5	100.	106.9
00310	BOD, 5 DAY, 20 DEG C MG/L	05/23/73-08/26/76	28	1.75	1.986	3.8	1.1	0.551	0.742	1.3	1.5	2.35	3.43
00400p	PH (STANDARD UNITS)	08/22/68-03/29/82	83	8.21	8.253	8.8	7.9	0.049	0.222	8.	8.1	8.4	8.6
00400p	CONVERTED PH (STANDARD UNITS)	08/22/68-03/29/82	83	8.21	8.201	8.8	7.9	0.052	0.228	8.	8.1	8.4	8.6
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/22/68-03/29/82	83	0.006	0.006	0.013	0.002	0.	0.003	0.003	0.004	0.008	0.01
00405	CARBON DIOXIDE (MG/L AS CO2)	06/27/78-06/27/78	1	2.2	2.2	2.2	2.2	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/27/78-06/27/78	1	115.	115.	115.	115.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	06/27/78-06/27/78	1	140.	140.	140.	140.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	06/27/78-06/27/78	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00600	NITROGEN, TOTAL (MG/L AS N)	04/23/74-04/11/79	13	0.74	0.719	1.2	0.	0.073	0.27	0.224	0.62	0.86	1.072
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	04/23/74-04/11/79	13	0.63	0.651	1.2	0.	0.071	0.266	0.204	0.565	0.77	1.068
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/23/73-04/11/79	22	0.08	0.084	0.22	0.	0.005	0.068	0.003	0.03	0.13	0.21
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/23/73-04/11/79	22	0.01	0.01	0.029	0.	0.	0.008	0.	0.004	0.01	0.024
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/23/73-04/11/79	22	0.	0.009	0.06	0.	0.	0.018	0.	0.	0.01	0.048
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/23/74-04/11/79	13	0.73	0.709	1.2	0.	0.073	0.271	0.216	0.595	0.855	1.072
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/23/74-04/11/79	13	0.01	0.015	0.05	0.	0.	0.014	0.	0.005	0.02	0.042
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	04/10/79-04/11/79	4	0.135	0.135	0.15	0.12	0.	0.017	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	05/23/73-05/23/73	2	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/23/73-04/11/79	22	0.05	0.077	0.28	0.04	0.005	0.069	0.04	0.04	0.073	0.235
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/23/73-05/23/73	2	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	05/23/73-04/11/79	15	7.6	7.607	13.	3.9	4.925	2.219	4.44	6.	9.	10.84
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	02/11/76-02/11/76	1	6.2	6.2	6.2	6.2	0.	0.	**	**	**	**
00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	02/11/76-02/11/76	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00721	CYANIDE IN BOTTOM DEPOSITS (MG/KG AS CN DRY WGT)	10/30/75-10/30/75	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/27/78-06/27/78	1	7900.	7900.	7900.	7900.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	06/27/78-06/27/78	1	7800.	7800.	7800.	7800.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/27/78-06/27/78	1	350.	350.	350.	350.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/27/78-06/27/78	1	1700.	1700.	1700.	1700.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	06/27/78-06/27/78	1	9300.	9300.	9300.	9300.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	06/27/78-06/27/78	1	46.	46.	46.	46.	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	06/27/78-06/27/78	1	71.	71.	71.	71.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	06/27/78-06/27/78	1	470.	470.	470.	470.	0.	0.	**	**	**	**

** - Less than 9 observations ## - 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: PAIS0022

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00940	CHLORIDE,TOTAL IN WATER MG/L	06/27/78-06/27/78	1	18000.	18000.	18000.	18000.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	06/27/78-06/27/78	1	3100.	3100.	3100.	3100.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	06/27/78-06/27/78	1	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/23/73-06/27/78	5	4.7	4.48	5.1	3.5	0.502	0.709	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/23/74-10/30/75	2	2.	2.	3.	1.	2.	1.414	**	**	**	**
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	10/30/75-10/30/75	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	10/23/74-10/30/75	2	1.5	1.5	3.	0.	4.5	2.121	**	**	**	**
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	10/30/75-10/30/75	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/23/74-10/30/75	2	1.5	1.5	3.	0.	4.5	2.121	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	10/23/74-10/30/75	2	0.	0.	0.	0.	0.	0.	**	**	**	**
01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	10/30/75-10/30/75	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	10/23/74-10/30/75	2	6.5	6.5	7.	6.	0.5	0.707	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	10/30/75-10/30/75	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/23/74-10/30/75	2	105.	105.	130.	80.	1250.	35.355	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	10/23/74-10/30/75	2	13.	13.	23.	3.	200.	14.142	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	10/30/75-10/30/75	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	10/30/75-10/30/75	1	80.	80.	80.	80.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/23/74-10/30/75	2	80.5	80.5	90.	71.	180.5	13.435	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	10/23/74-10/30/75	2	0.5	0.5	1.	0.	0.5	0.707	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/23/74-10/30/75	2	4750.	4750.	6200.	3300.	4205000.	2050.61	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	10/23/74-10/30/75	2	60.	60.	80.	40.	800.	28.284	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	10/30/75-10/30/75	1	80.	80.	80.	80.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/23/74-10/30/75	2	30.	30.	30.	30.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/23/74-10/30/75	2	155.	155.	160.	150.	50.	7.071	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	05/23/73-06/04/75	4	0.5	0.75	2.	0.	0.917	0.957	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	05/23/73-06/04/75	4	0.	0.075	0.301	0.	0.023	0.151	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			1.189								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/23/73-06/04/75	4	0.5	0.5	1.	0.	0.333	0.577	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/23/73-06/04/75	4	0.	0.	0.	0.	0.	0.	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			1.								
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	05/23/73-06/04/75	4	1.5	2.75	8.	0.	12.917	3.594	**	**	**	**
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	05/23/73-06/04/75	4	0.151	0.301	0.903	0.	0.181	0.426	**	**	**	**
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4	GEOMETRIC MEAN =			2.								
32230	CHLOROPHYLL A (MG/L)	04/23/74-02/11/76	5	0.001	0.001	0.002	0.001	0.	0.001	**	**	**	**
32231	CHLOROPHYLL B (MG/L)	04/23/74-02/11/76	5	0.001	0.001	0.003	0.	0.	0.001	**	**	**	**
32232	CHLOROPHYLL C (MG/L)	04/23/74-02/11/76	5	0.003	0.004	0.007	0.001	0.	0.003	**	**	**	**
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	05/23/73-08/26/76	9	0.	0.556	2.	0.	0.778	0.882	0.	0.	1.5	2.
39399	ETHION IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	10/30/75-10/30/75	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39531	MALATHION IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/30/75-10/30/75	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39571	DIAZINON IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/30/75-10/30/75	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39601	METHYL PARATHION IN BOT. DEPOS.(UG/KG DRY SOLIDS)	10/30/75-10/30/75	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/30/75	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/30/75	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/30/75	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39791	METHYL TRITHION IN BOT DEPOS (UG/KG DRY SOLIDS)	10/30/75-10/30/75	1	0.	0.	0.	0.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	06/27/78-06/27/78	1	33000.	33000.	33000.	33000.	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	06/27/78-06/27/78	1	44.9	44.9	44.9	44.9	0.	0.	**	**	**	**
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	04/10/79-04/11/79	4	0.09	0.113	0.2	0.07	0.004	0.06	**	**	**	**
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	04/10/79-04/11/79	4	0.135	0.135	0.15	0.12	0.	0.017	**	**	**	**
71887	NITROGEN, TOTAL, AS NO3 - MG/L	04/23/74-04/11/79	13	3.3	3.2	5.4	0.	1.467	1.211	1.	2.75	3.85	4.8
71890	MERCURY, DISSOLVED (UG/L AS HG)	10/23/74-10/30/75	2	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	10/30/75-10/30/75	1	0.06	0.06	0.06	0.06	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: PAIS0022

				Total	Exceed	Prop.	----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------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.	45 &	9	0.20	20	8	0.40	25	1	0.04						

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

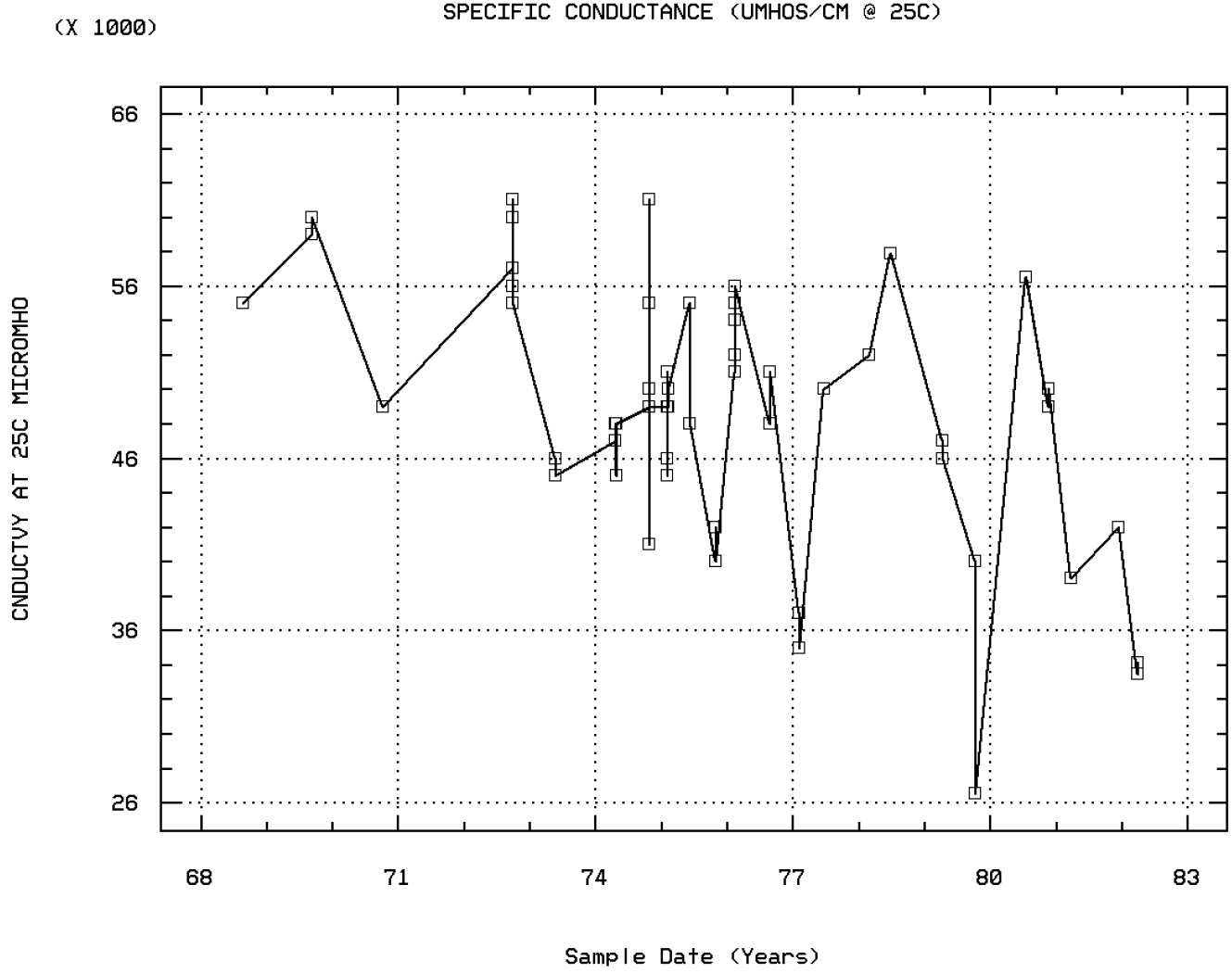
EPA Water Quality Criteria Analysis for Station: PAIS0022

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------5/01-10/31---------- Obs	Exceed	Prop.	----------11/01-4/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	88	3	0.03	47	3	0.06	41	0	0.00						
00400	PH	Marine Chronic	8.5	83	14	0.17	42	7	0.17	41	7	0.17						
		Other-Lo Lim.	6.5	83	0	0.00	42	0	0.00	41	0	0.00						
01000	ARSENIC, DISSOLVED	Marine Acute	69.	2	0	0.00	2	0	0.00									
01025	CADMIUM, DISSOLVED	Marine Acute	43.	2	0	0.00	2	0	0.00									
01040	COPPER, DISSOLVED	Marine Acute	2.9	2	2	1.00	2	2	1.00									
01049	LEAD, DISSOLVED	Marine Acute	220.	2	0	0.00	2	0	0.00									
01065	NICKEL, DISSOLVED	Marine Acute	75.	2	0	0.00	2	0	0.00									
01090	ZINC, DISSOLVED	Marine Acute	95.	2	0	0.00	2	0	0.00									
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	4	0	0.00	3	0	0.00	1	0	0.00						
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	4	0	0.00	3	0	0.00	1	0	0.00						
71890	MERCURY, DISSOLVED	Marine Acute	2.1	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: PAIS0022 Parameter Code: 00095

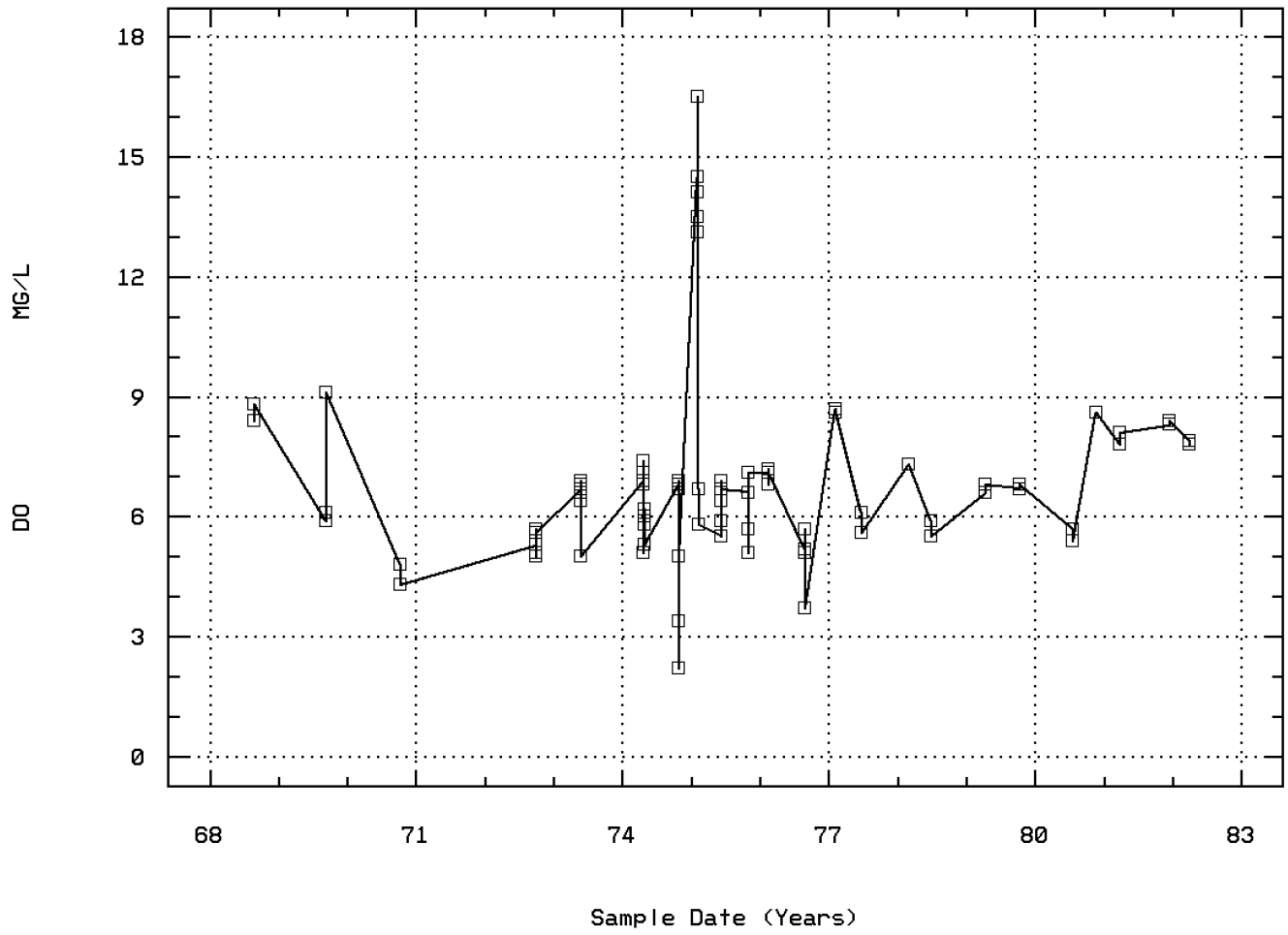
SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)



1218803LAGUNA MADRE ES LINE 188 SITE 03

Station: PAIS0022 Parameter Code: 00300

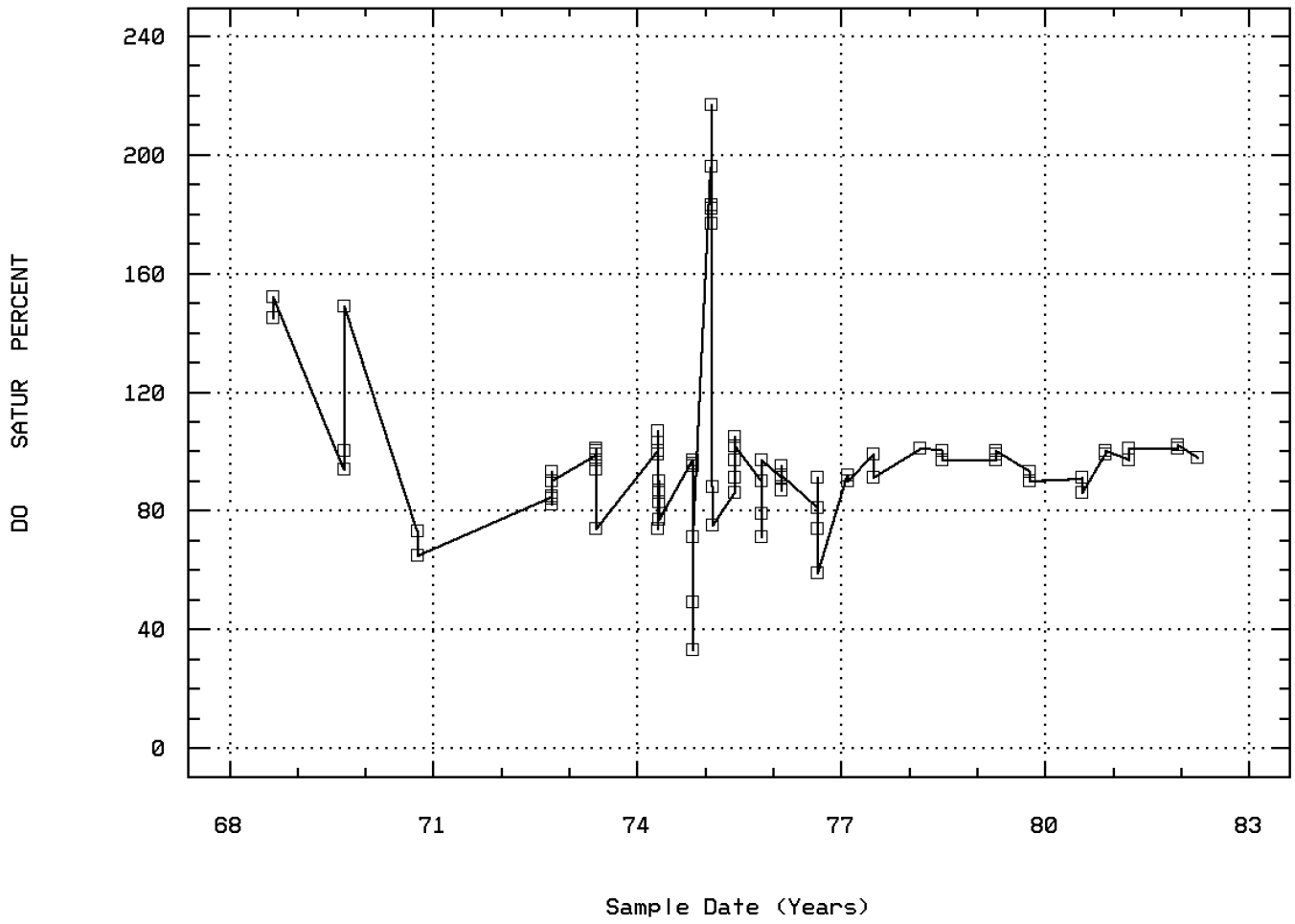
OXYGEN, DISSOLVED



1218803LAGUNA MADRE ES LINE 188 SITE 03

Station: PAIS0022 Parameter Code: 00301

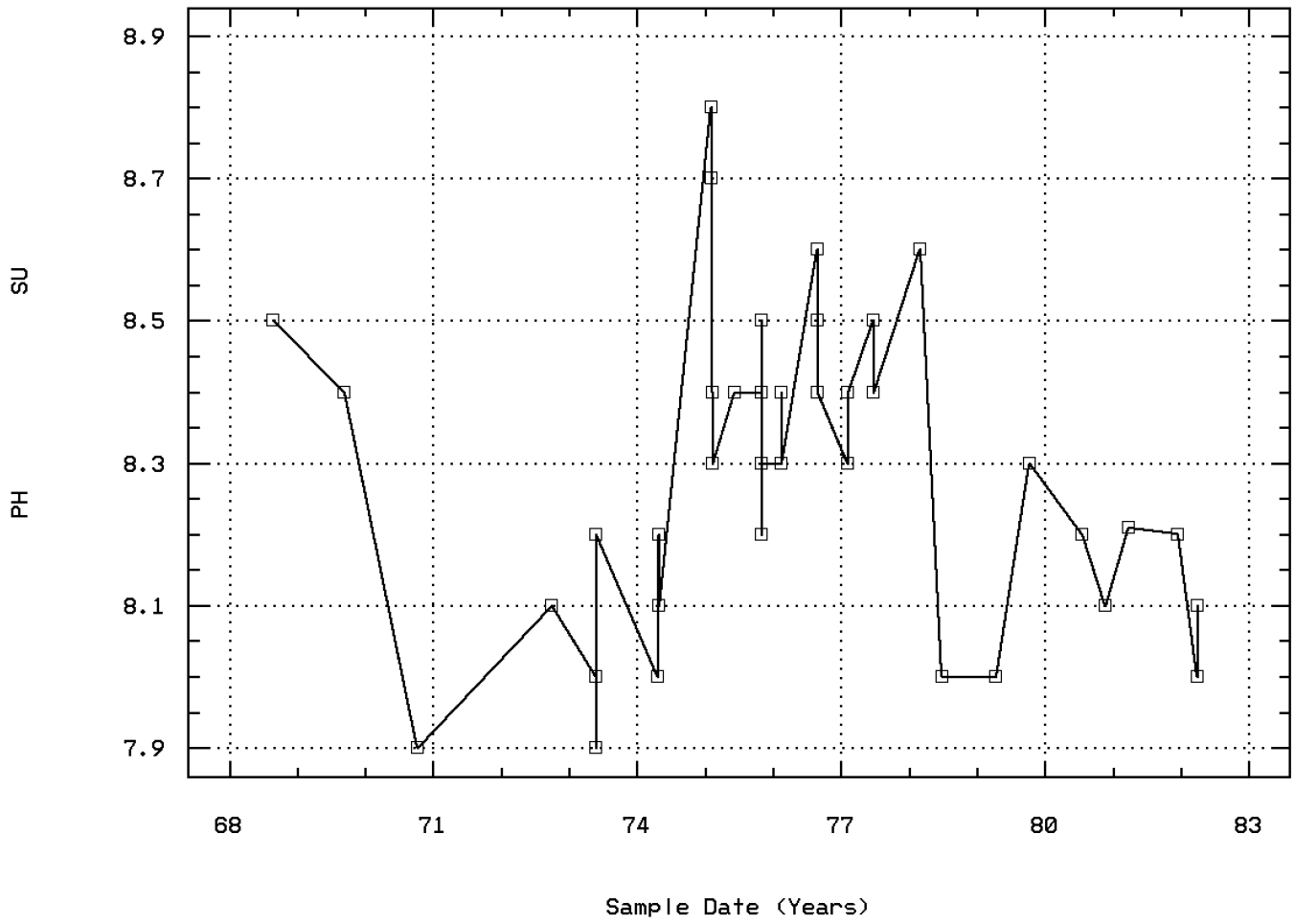
OXYGEN, DISSOLVED, PERCENT OF SATURATIO



1218803LAGUNA MADRE ES LINE 188 SITE 03

Station: PAIS0022 Parameter Code: 00400

PH (STANDARD UNITS)



1218803LAGUNA MADRE ES LINE 188 SITE 03

Seasonal Analysis for Season #1: 5/01 to 10/31 - Station PAIS0022

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/22/68-03/29/82	59	1.	4.019	15.	0.1	17.452	4.178	1.	1.	6.	12.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/22/68-03/29/82	47	26.9	26.8	32.5	23.	5.448	2.334	23.5	25.	28.4	29.26
00078	TRANSPARENCY, SECCHI DISC (METERS)	08/22/68-03/29/82	18	0.89	1.351	6.1	0.44	2.249	1.5	0.476	0.635	1.16	4.75
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/22/68-03/29/82	47	50000.	50410.638	61000.	26500.	53427058.279	7309.382	40000.	46000.	56500.	60000.
00300	OXYGEN, DISSOLVED MG/L	08/22/68-03/29/82	47	5.9	5.936	9.1	2.2	1.545	1.243	4.7	5.2	6.7	6.94
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/22/68-03/29/82	48	91.	90.592	151.9	33.	427.265	20.67	70.4	81.25	97.	102.2
00400	PH (STANDARD UNITS)	08/22/68-03/29/82	42	8.3	8.26	8.6	7.9	0.042	0.205	7.93	8.1	8.4	8.5
00400	CONVERTED PH (STANDARD UNITS)	08/22/68-03/29/82	42	8.3	8.211	8.6	7.9	0.044	0.211	7.93	8.1	8.4	8.5
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/22/68-03/29/82	42	0.005	0.006	0.013	0.003	0.	0.003	0.003	0.004	0.008	0.012

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

Seasonal Analysis for Season #2: 11/01 to 4/30 - Station PAIS0022

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/22/68-03/29/82	41	4.	4.488	14.	1.	16.506	4.063	1.	1.	5.	12.6
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/22/68-03/29/82	41	20.2	20.661	25.4	9.5	17.726	4.21	14.66	17.75	24.85	25.3
00078	TRANSPARENCY, SECCHI DISC (METERS)	08/22/68-03/29/82	14	0.62	0.631	1.14	0.22	0.066	0.256	0.25	0.463	0.77	1.05
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/22/68-03/29/82	41	47000.	46673.171	56000.	33500.	28432012.195	5332.168	37400.	45000.	50000.	52000.
00300	OXYGEN, DISSOLVED MG/L	08/22/68-03/29/82	41	7.1	7.956	16.5	5.1	6.755	2.599	5.84	6.65	8.35	13.42
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/22/68-03/29/82	41	98.	105.717	216.9	74.	1115.464	33.399	83.6	90.	101.	180.9
00400	PH (STANDARD UNITS)	08/22/68-03/29/82	41	8.2	8.247	8.8	8.	0.058	0.241	8.	8.	8.4	8.7
00400	CONVERTED PH (STANDARD UNITS)	08/22/68-03/29/82	41	8.2	8.192	8.8	8.	0.061	0.247	8.	8.	8.4	8.7
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/22/68-03/29/82	41	0.006	0.006	0.01	0.002	0.	0.003	0.002	0.004	0.01	0.01

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

Station Inventory for Station: PAIS0023

NPS Station ID: PAIS0023
LAT/LON: 26.592226/ -97.407782
Agency: 112WRD
Date Created: 06/29/78
Location: 1218802LAGUNA MADRE ES LINE 188 SITE 02
FIPS State/County: 48489 TEXAS/WILLACY
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): 263532097242800
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110207
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 12110207
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110205000400.00
RF3 Mile Point: 22.29
Distance from RF3: 0.07
On/Off RF3:
Description:

Parameter Inventory for Station: PAIS0023

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/22/68-03/29/82	62	4.5	5.21	15.	1.	19.414	4.406	1.	1.	10.	12.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/22/68-03/29/82	61	25.4	23.646	30.9	9.5	30.738	5.544	17.	19.	28.	29.3
00070	TURBIDITY, (JACKSON CANDLE UNITS)	04/23/74-02/11/76	11	20.	25.	50.	10.	170.	13.038	11.	20.	25.	50.
00078	TRANSPARENCY, SECCHI DISC (METERS)	08/22/68-03/29/82	20	0.725	1.097	5.8	0.18	1.537	1.24	0.256	0.455	1.083	2.379
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/22/68-03/29/82	61	50000.	49170.492	68000.	34100.	58188114.754	7628.113	38000.	42450.	55000.	56500.
00300p	OXYGEN, DISSOLVED MG/L	08/22/68-03/29/82	62	6.5	6.842	16.1	4.7	3.721	1.929	5.2	5.675	7.3	8.37
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/22/68-03/29/82	62	91.	96.95	214.9	78.	534.825	23.126	82.	86.	99.	111.3
00310	BOD, 5 DAY, 20 DEG C MG/L	08/22/68-05/23/73	6	0.95	1.367	4.	0.2	1.827	1.352	**	**	**	**
00335	COD, .025N K2CR2O7 MG/L	09/27/72-09/27/72	2	21.	21.	26.	16.	50.	7.071	**	**	**	**
00400p	PH (STANDARD UNITS)	08/22/68-03/29/82	60	8.25	8.242	8.8	7.5	0.074	0.272	8.	8.1	8.5	8.5
00400p	CONVERTED PH (STANDARD UNITS)	08/22/68-03/29/82	60	8.247	8.145	8.8	7.5	0.083	0.289	8.	8.1	8.5	8.5
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/22/68-03/29/82	60	0.006	0.007	0.032	0.002	0.	0.006	0.003	0.003	0.008	0.01
00403	PH, LAB, STANDARD UNITS SU	11/18/80-03/29/82	4	8.2	8.175	8.2	8.1	0.002	0.05	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	11/18/80-03/29/82	4	8.2	8.173	8.2	8.1	0.003	0.05	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/18/80-03/29/82	4	0.006	0.007	0.008	0.006	0.	0.001	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	06/21/77-07/16/80	5	1.	1.5	3.2	0.8	1.	1.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	02/01/77-03/29/82	10	140.	141.5	164.	107.	242.722	15.58	109.4	136.25	151.5	163.2
00440	BICARBONATE ION (MG/L AS HCO3)	02/01/77-07/16/80	6	169.	169.667	200.	130.	600.667	24.509	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	02/01/77-07/16/80	6	0.	0.	0.	0.	0.	0.	**	**	**	**
00600	NITROGEN, TOTAL (MG/L AS N)	02/01/77-03/29/82	9	0.95	0.963	1.3	0.76	0.027	0.164	0.76	0.84	1.05	1.3
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	02/01/77-03/29/82	9	0.85	0.891	1.3	0.69	0.037	0.192	0.69	0.715	0.98	1.3
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/22/68-03/29/82	16	0.05	0.121	0.41	0.	0.02	0.142	0.	0.02	0.21	0.396
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/22/68-03/29/82	16	0.01	0.012	0.04	0.	0.	0.011	0.	0.004	0.02	0.032
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/22/68-03/24/81	14	0.005	0.02	0.1	0.	0.001	0.035	0.	0.	0.02	0.1
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	02/01/77-03/29/82	10	0.94	0.963	1.3	0.75	0.029	0.169	0.755	0.83	1.1	1.28
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	02/01/77-03/29/82	10	0.015	0.031	0.11	0.	0.001	0.033	0.001	0.01	0.05	0.104
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	04/11/79-04/11/79	1	0.09	0.09	0.09	0.09	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	08/22/68-05/23/73	6	0.06	0.142	0.67	0.	0.068	0.26	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/22/68-03/29/82	16	0.05	0.058	0.25	0.	0.003	0.059	0.	0.03	0.07	0.138
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/22/68-05/23/73	6	0.02	0.047	0.22	0.	0.007	0.085	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	05/23/73-03/29/82	12	6.95	7.45	15.	4.	9.705	3.115	4.09	5.175	8.7	13.8
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/01/77-03/29/82	10	5400.	5400.	6900.	4300.	746666.667	864.099	4320.	4500.	6025.	6820.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	02/01/77-03/29/82	10	5200.	5260.	6800.	4100.	784888.889	885.94	4130.	4400.	5925.	6720.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	02/01/77-03/29/82	10	415.	389.	470.	210.	6898.889	83.06	221.	335.	455.	470.
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	02/01/77-03/29/82	10	1045.	1075.	1400.	850.	30183.333	173.734	854.	942.5	1200.	1380.
00930	SODIUM, DISSOLVED (MG/L AS NA)	02/01/77-03/29/82	10	9300.	9170.	12000.	6600.	2695666.667	1641.849	6720.	7875.	10250.	11900.
00931	SODIUM ADSORPTION RATIO	02/01/77-03/29/82	10	54.5	54.3	64.	44.	36.011	6.001	44.5	50.5	57.75	63.9
00932	SODIUM, PERCENT	02/01/77-03/29/82	10	77.	77.2	79.	76.	1.067	1.033	76.	76.	78.	78.9

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

Parameter Inventory for Station: PAIS0023

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00933	SODIUM,PLUS POTASSIUM (MG/L)	04/11/79-10/10/79	2	8950.	8950.	10000.	7900.	2205000.	1484.924	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	02/01/77-03/29/82	10	345.	348.	520.	140.	15351.111	123.9	147.	247.5	460.	517.
00940	CHLORIDE,TOTAL IN WATER MG/L	02/01/77-03/29/82	10	16500.	16800.	23000.	13000.	10400000.	3224.903	13100.	14000.	19250.	22700.
00945	SULFATE, TOTAL (MG/L AS SO4)	02/01/77-03/29/82	10	2450.	2380.	2900.	1600.	157333.333	396.653	1640.	2075.	2725.	2890.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	02/01/77-03/29/82	10	0.8	0.91	1.5	0.6	0.083	0.288	0.61	0.7	1.2	1.47
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/27/72-03/29/82	14	5.35	5.671	19.	0.1	20.001	4.472	1.05	2.9	6.425	13.95
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	09/27/72-05/23/73	2	5.	5.	9.	1.	32.	5.657	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	09/27/72-05/23/73	2	0.477	0.477	0.954	0.	0.455	0.675	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			3.								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/27/72-05/23/73	2	2.	2.	3.	1.	2.	1.414	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/27/72-05/23/73	2	0.239	0.239	0.477	0.	0.114	0.337	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			1.732								
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	09/27/72-05/23/73	2	3.5	3.5	6.	1.	12.5	3.536	**	**	**	**
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	09/27/72-05/23/73	2	0.389	0.389	0.778	0.	0.303	0.55	**	**	**	**
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4	GEOMETRIC MEAN =			2.449								
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	09/27/72-05/23/73	4	0.5	0.5	1.	0.	0.333	0.577	**	**	**	**
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	09/27/72-09/27/72	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	09/27/72-09/27/72	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	09/27/72-09/27/72	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39360	DDD IN WHOLE WATER SAMPLE (UG/L)	09/27/72-09/27/72	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	09/27/72-09/27/72	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	09/27/72-09/27/72	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	09/27/72-09/27/72	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	09/27/72-09/27/72	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	09/27/72-09/27/72	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	09/27/72-09/27/72	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	09/27/72-09/27/72	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	09/27/72-09/27/72	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	09/27/72-09/27/72	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	09/27/72-09/27/72	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	09/27/72-09/27/72	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	09/27/72-09/27/72	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	09/27/72-09/27/72	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	09/27/72-09/27/72	1	0.	0.	0.	0.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	02/01/77-03/29/82	9	29100.	29877.778	40400.	23100.	32739444.444	5721.839	23100.	25250.	34250.	40400.
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	02/01/77-03/29/82	9	39.6	40.622	54.9	31.4	60.344	7.768	31.4	34.35	46.55	54.9
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	04/11/79-11/18/80	4	0.035	0.043	0.1	0.	0.002	0.043	**	**	**	**
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	04/11/79-12/15/81	6	0.105	0.115	0.18	0.09	0.001	0.035	**	**	**	**
71887	NITROGEN, TOTAL, AS NO3 - MG/L	02/01/77-03/29/82	9	4.2	4.3	5.8	3.4	0.553	0.743	3.4	3.75	4.75	5.8
82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	03/24/81-03/24/81	1	190.	190.	190.	190.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: PAIS0023

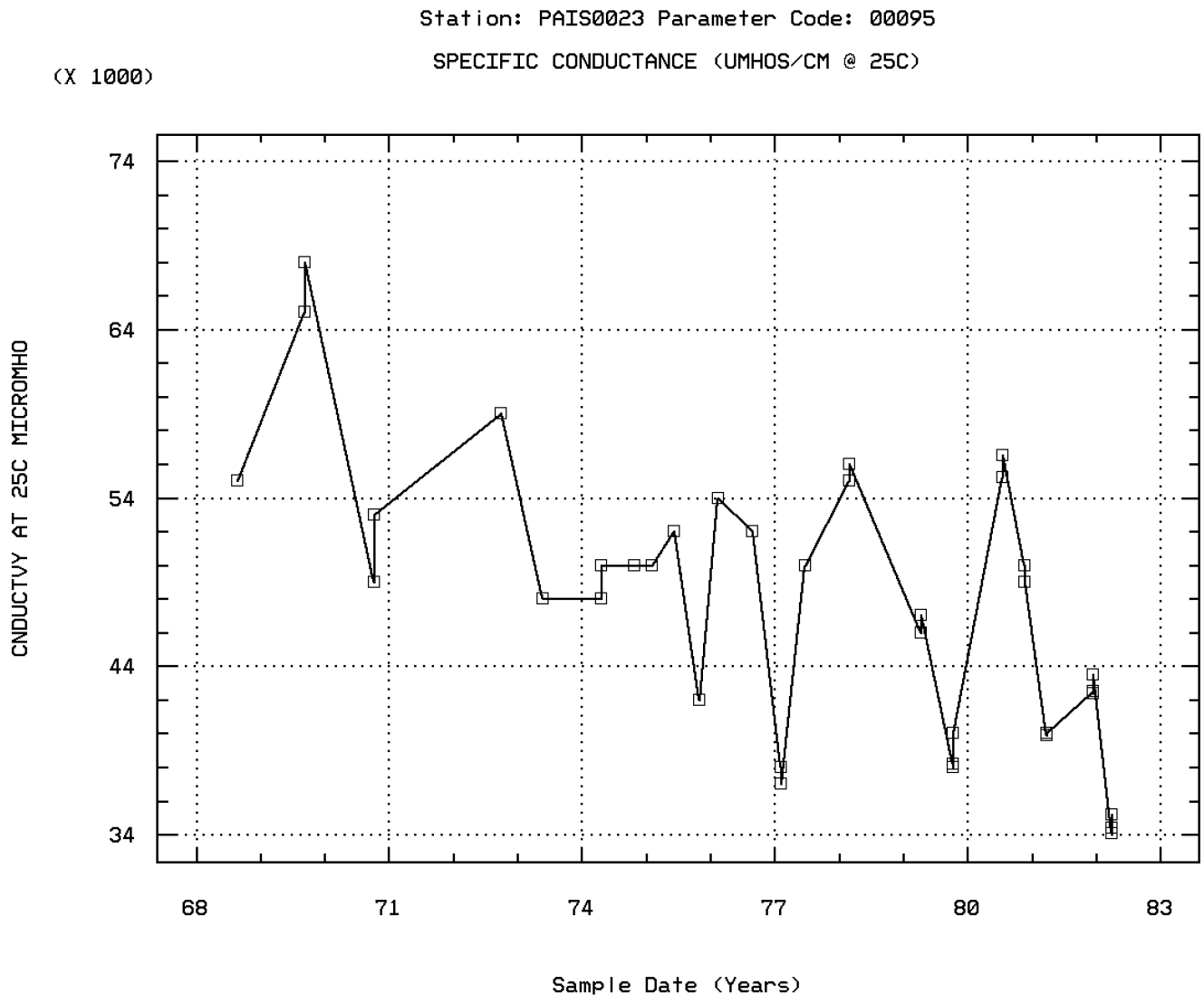
				Total	Exceed	Prop.	----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	11	2	0.18	6	2	0.33	5	0	0.00						
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	62	0	0.00	37	0	0.00	25	0	0.00						
00400	PH	Marine Chronic	8.5	60	16	0.27	35	11	0.31	25	5	0.20						
		Other-Lo Lim.	6.5	60	0	0.00	35	0	0.00	25	0	0.00						
00403	PH, LAB	Marine Chronic	8.5	4	0	0.00				4	0	0.00						
		Other-Lo Lim.	6.5	4	0	0.00				4	0	0.00						
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	2	0	0.00	2	0	0.00									
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	2	0	0.00	2	0	0.00									
39330	ALDRIN IN WHOLE WATER SAMPLE	Marine Acute	1.3	1	0	0.00	1	0	0.00									
39340	GAMMA-BHC(LINDANE), WHOLE WATER	Marine Acute	0.16	1	0	0.00	1	0	0.00									
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATE	Marine Acute	0.09	1	0	0.00	1	0	0.00									
39360	DDD IN WHOLE WATER SAMPLE	Marine Acute	3.6	1	0	0.00	1	0	0.00									
39365	DDE IN WHOLE WATER SAMPLE	Marine Acute	14.	1	0	0.00	1	0	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: PAIS0023

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------5/01-10/31---------- Obs	Exceed	Prop.	----------11/01-4/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
39370	DDT IN WHOLE WATER SAMPLE	Marine Acute	0.13	1	0	0.00	1	0	0.00									
39380	DIELDRIN IN WHOLE WATER SAMPLE	Marine Acute	0.71	1	0	0.00	1	0	0.00									
39390	ENDRIN IN WHOLE WATER SAMPLE	Marine Acute	0.037	1	0	0.00	1	0	0.00									
39410	HEPTACHLOR IN WHOLE WATER SAMPLE	Marine Acute	0.053	1	0	0.00	1	0	0.00									
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE	Marine Acute	0.053	1	0	0.00	1	0	0.00									

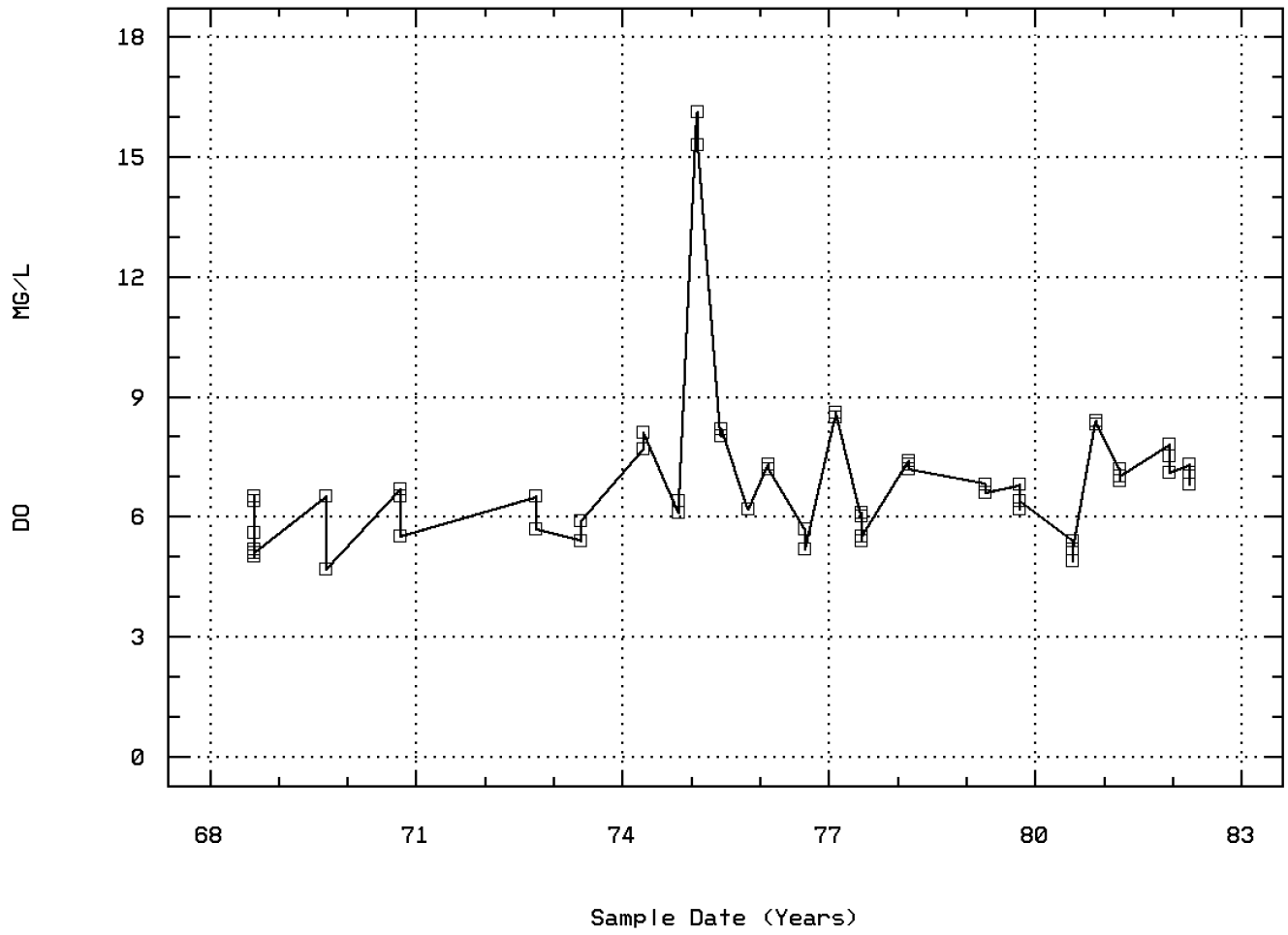
& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter



1218802LAGUNA MADRE ES LINE 188 SITE 02

Station: PAIS0023 Parameter Code: 00300

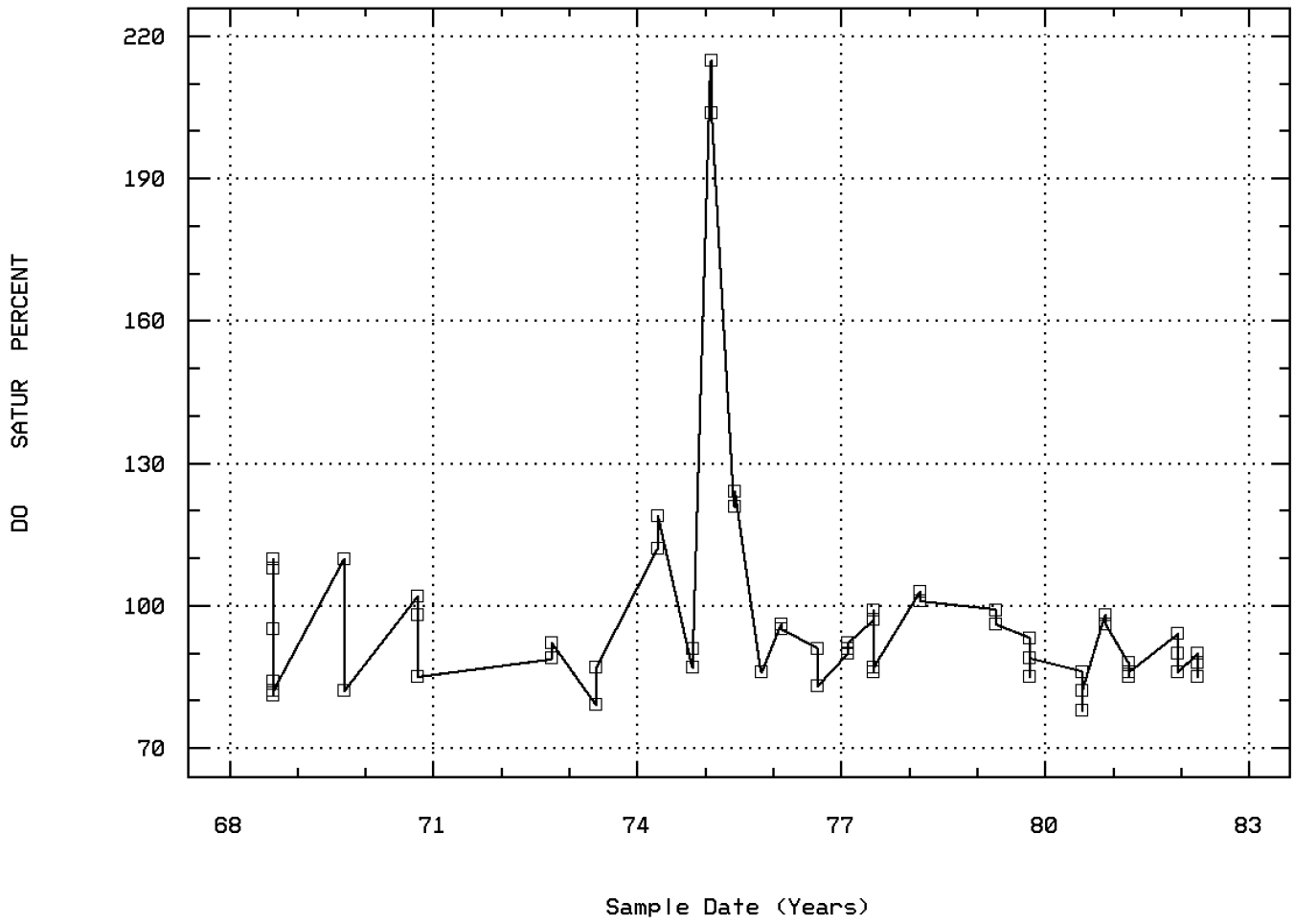
OXYGEN, DISSOLVED



1218802LAGUNA MADRE ES LINE 188 SITE 02

Station: PAIS0023 Parameter Code: 00301

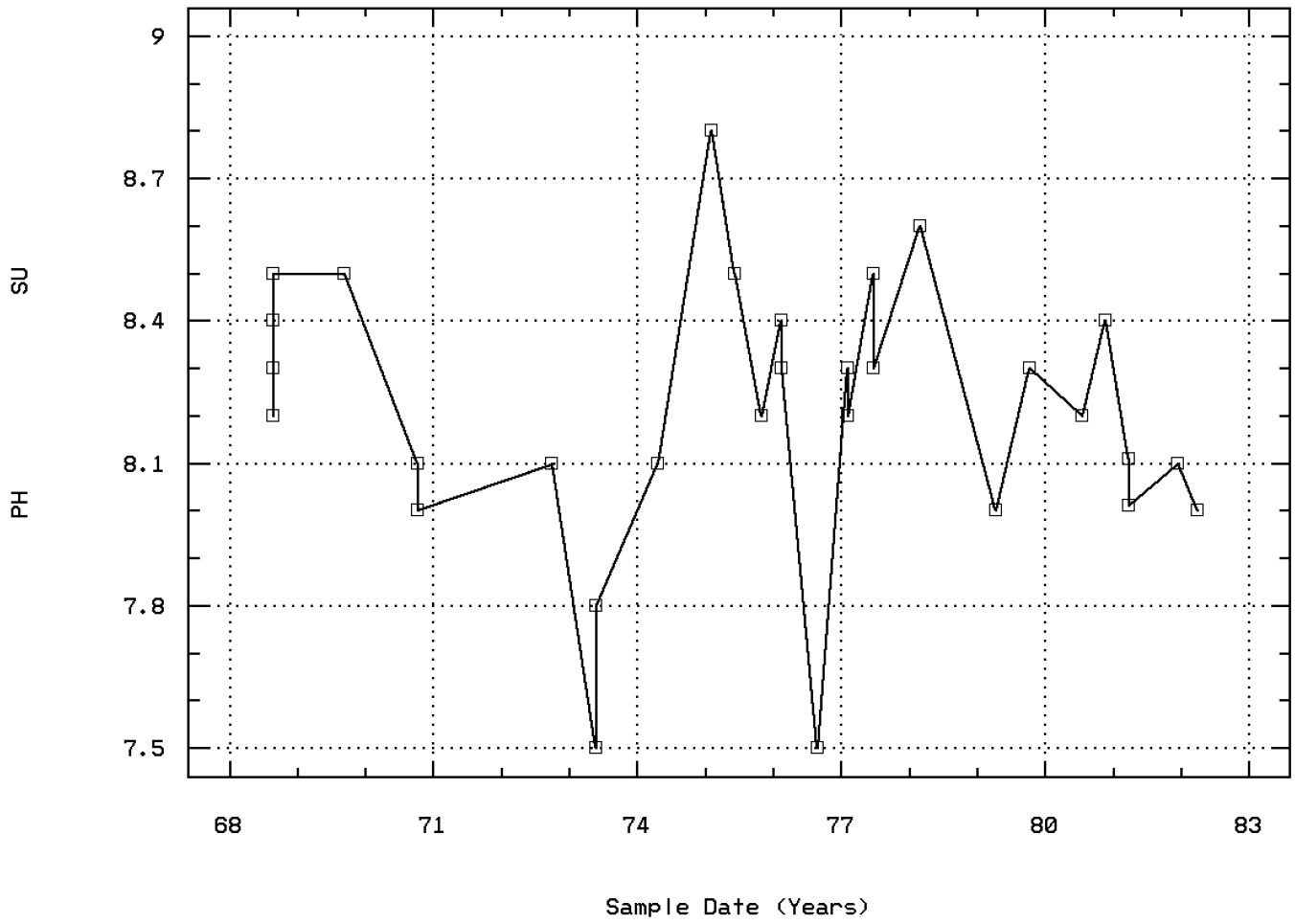
OXYGEN, DISSOLVED, PERCENT OF SATURATIO



1218802LAGUNA MADRE ES LINE 188 SITE 02

Station: PAIS0023 Parameter Code: 00400

PH (STANDARD UNITS)



1218802LAGUNA MADRE ES LINE 188 SITE 02

Seasonal Analysis for Season #1: 5/01 to 10/31 - Station PAIS0023

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/22/68-03/29/82	37	5.	5.189	15.	1.	19.547	4.421	1.	1.	9.	12.2
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/22/68-03/29/82	36	27.55	27.425	30.9	23.5	4.091	2.023	24.	25.925	29.15	29.76
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/22/68-03/29/82	36	52000.	51927.778	68000.	38000.	45999777.778	6782.314	41400.	49250.	55000.	60800.
00300	OXYGEN, DISSOLVED MG/L	08/22/68-03/29/82	37	6.	5.949	8.2	4.7	0.596	0.772	5.08	5.4	6.45	6.72
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/22/68-03/29/82	37	87.	92.143	123.9	78.	130.92	11.442	81.8	84.5	97.5	109.9
00400	PH (STANDARD UNITS)	08/22/68-03/29/82	35	8.3	8.234	8.5	7.5	0.082	0.286	7.68	8.1	8.5	8.5
00400	CONVERTED PH (STANDARD UNITS)	08/22/68-03/29/82	35	8.3	8.114	8.5	7.5	0.097	0.311	7.68	8.1	8.5	8.5
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/22/68-03/29/82	35	0.005	0.008	0.032	0.003	0.	0.008	0.003	0.003	0.008	0.022

** - Less than 9 observations ## - Computed 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: 11/01 to 4/30 - Station PAIS0023

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/22/68-03/29/82	25	4.	5.24	14.	1.	20.023	4.475	1.	1.	10.	11.8
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/22/68-03/29/82	25	19.	18.204	25.4	9.5	18.608	4.314	9.8	17.	19.85	24.56
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/22/68-03/29/82	25	46000.	45200.	56000.	34100.	50561666.667	7110.673	34880.	38950.	50000.	55400.
00300	OXYGEN, DISSOLVED MG/L	08/22/68-03/29/82	25	7.3	8.164	16.1	6.6	5.511	2.347	6.8	7.1	8.35	11.28
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/22/68-03/29/82	25	95.	104.064	214.9	85.	1074.631	32.782	85.6	89.	102.	152.9
00400	PH (STANDARD UNITS)	08/22/68-03/29/82	25	8.11	8.253	8.8	8.	0.065	0.256	8.	8.055	8.4	8.68
00400	CONVERTED PH (STANDARD UNITS)	08/22/68-03/29/82	25	8.11	8.193	8.8	8.	0.069	0.263	8.	8.055	8.4	8.68
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/22/68-03/29/82	25	0.008	0.006	0.01	0.002	0.	0.003	0.002	0.004	0.009	0.01

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

Station Inventory for Station: PAIS0024

NPS Station ID: PAIS0024 LAT/LON: 26.596337/ -97.427810 Agency: 11NPSWRD Date Created: 02/20/99
Location: LOWER LAGUNA MADRE TRANSECT 18 SITE 3 FIPS State/County: 48489 TEXAS/WILLACY
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): PAIS_TWDB_18-3
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110207 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110207 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PORT MANSFIELD TEXAS 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT TRANSECT 18 SITE 3 IN THE LOWER LAGUNA MADRE. DATA ARE FROM A SERIES OF YEARLY REPORTS (NUMBERS 117; 144; 171; AND 191) BY D. C. HAHL AND KARL W. RATZLAFF OF THE U.S. GEOLOGICAL SURVEY FOR THE TEXAS WATER DEVELOPMENT BOARD. THE REPORTS ARE TITLED "CHEMICAL AND PHYSICAL CHARACTERISTICS OF WATER IN ESTUARIES OF TEXAS SEPTEMBER 1967-SEPTEMBER 1968; OCTOBER 1968-SEPTEMBER 1969; OCTOBER 1969-SEPTEMBER 1970; AND OCTOBER 1970-SEPTEMBER 1971" AND WERE PUBLISHED IN MAY 1970; APRIL 1972; JUNE 1973; AND MAY 1975 RESPECTIVELY. THE PURPOSE OF THESE REPORTS WAS TO CREATE "A LONG-TERM RECORD OF THE CHEMICAL; PHYSICAL; AND HYDRAULIC CHARACTERISTICS OF THE TEXAS ESTUARINE SYSTEMS." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0024

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/22/68-10/07/70	7	1.	2.586	6.	0.1	5.535	2.353	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/22/68-10/07/70	7	29.1	29.386	32.5	26.9	4.991	2.234	**	**	**	**
00078	TRANSPARENCY, SECCHI DISC (METERS)	08/22/68-10/07/70	3	1.09	0.807	1.22	0.11	0.368	0.607	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/22/68-10/07/70	7	55000.	55285.714	60000.	49000.	22904761.905	4785.892	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/22/68-10/07/70	7	6.1	6.771	9.1	4.3	3.899	1.975	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/22/68-10/07/70	7	100.	111.143	152.	65.	1375.143	37.083	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	08/22/68-10/07/70	7	8.4	8.286	8.5	7.9	0.071	0.267	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	08/22/68-10/07/70	7	8.4	8.207	8.5	7.9	0.079	0.28	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/22/68-10/07/70	7	0.004	0.006	0.013	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: PAIS0024

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	5/01-10/31 Obs	5/01-10/31 Exceed	5/01-10/31 Prop.	11/01-4/30 Obs	11/01-4/30 Exceed	11/01-4/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	7	0	0.00	7	0	0.00									
00406	PH, FIELD	Marine Chronic	8.5	7	2	0.29	7	2	0.29									
		Other-Lo Lim.	6.5	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: PAIS0025

NPS Station ID: PAIS0025 LAT/LON: 26.597587/ -97.411031 Agency: 11NPSWRD Date Created: 02/20/99
Location: LOWER LAGUNA MADRE TRANSECT 18 SITE 2 FIPS State/County: 48489 TEXAS/WILLACY
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): PAIS_TWDB_18-2
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110207 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110207 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PORT MANSFIELD TEXAS 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT TRANSECT 18 SITE 2 IN THE LOWER LAGUNA MADRE. DATA ARE FROM A SERIES OF YEARLY REPORTS (NUMBERS 117; 144; 171; AND 191) BY D. C. HAHL AND KARL W. RATZLAFF OF THE U.S. GEOLOGICAL SURVEY FOR THE TEXAS WATER DEVELOPMENT BOARD. THE REPORTS ARE TITLED "CHEMICAL AND PHYSICAL CHARACTERISTICS OF WATER IN ESTUARIES OF TEXAS SEPTEMBER 1967-SEPTEMBER 1968; OCTOBER 1968-SEPTEMBER 1969; OCTOBER 1969-SEPTEMBER 1970; AND OCTOBER 1970-SEPTEMBER 1971" AND WERE PUBLISHED IN MAY 1970; APRIL 1972; JUNE 1973; AND MAY 1975 RESPECTIVELY. THE PURPOSE OF THESE REPORTS WAS TO CREATE "A LONG-TERM RECORD OF THE CHEMICAL; PHYSICAL; AND HYDRAULIC CHARACTERISTICS OF THE TEXAS ESTUARINE SYSTEMS." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0025

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/22/68-10/07/70	13	5.	6.231	13.	1.	21.359	4.622	1.	1.	11.	12.6
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/22/68-10/07/70	13	29.3	29.038	30.9	26.6	2.163	1.471	26.64	28.	30.	30.86
00078	TRANSPARENCY, SECCHI DISC (METERS)	08/22/68-10/07/70	4	1.73	1.493	2.44	0.07	1.018	1.009	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/22/68-10/07/70	13	55000.	56461.538	68000.	49000.	34769230.769	5896.544	49000.	54000.	60000.	66800.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/22/68-10/07/70	13	5.6	5.792	6.7	4.7	0.537	0.733	4.82	5.1	6.5	6.62
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/22/68-10/07/70	13	95.	94.538	110.	81.	151.936	12.326	81.4	82.	109.	110.
00310	BOD, 5 DAY, 20 DEG C MG/L	08/22/68-08/22/68	2	2.1	2.1	4.	0.2	7.22	2.687	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	08/22/68-10/07/70	13	8.4	8.338	8.5	8.	0.034	0.185	8.04	8.15	8.5	8.5
00406	CONVERTED PH, FIELD, STANDARD UNITS	08/22/68-10/07/70	13	8.4	8.3	8.5	8.	0.036	0.189	8.04	8.15	8.5	8.5
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/22/68-10/07/70	13	0.004	0.005	0.01	0.003	0.	0.002	0.003	0.003	0.007	0.009
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	08/22/68-08/22/68	2	0.16	0.16	0.25	0.07	0.016	0.127	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	08/22/68-08/22/68	2	0.12	0.12	0.22	0.02	0.02	0.141	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	08/22/68-08/22/68	2 ##	5.	5.	10.	0.	50.	7.071	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/22/68-08/22/68	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01082	STRONTIUM, TOTAL (UG/L AS SR)	08/22/68-08/22/68	2	9300.	9300.	9400.	9200.	20000.	141.421	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	08/22/68-08/22/68	2 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	08/22/68-08/22/68	2	185.	185.	200.	170.	450.	21.213	**	**	**	**
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	08/22/68-08/22/68	2	0.3	0.3	0.4	0.2	0.02	0.141	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/22/68-08/22/68	2	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

Parameter Inventory for Station: PAIS0025

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	08/22/68-08/22/68	2	0.015	0.015	0.02	0.01	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 time series plot

EPA Water Quality Criteria Analysis for Station: PAIS0025

				Total	Exceed	Prop.	----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------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.	13	0	0.00	13	0	0.00									
00406	PH, FIELD	Marine Chronic	8.5	13	6	0.46	13	6	0.46									
		Other-Lo Lim.	6.5	13	0	0.00	13	0	0.00									
01090	ZINC, DISSOLVED	Marine Acute	95.	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: PAIS0026

NPS Station ID: PAIS0026 LAT/LON: 26.598920/ -97.393560 Agency: 11NPSWRD Date Created: 02/20/99
Location: LOWER LAGUNA MADRE TRANSECT 18 SITE 1 FIPS State/County: 48489 TEXAS/WILLACY
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): PAIS_TWDB_18-1
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110207 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110207 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PORT MANSFIELD TEXAS 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT TRANSECT 18 SITE 1 IN THE LOWER LAGUNA MADRE. DATA ARE FROM A SERIES OF YEARLY REPORTS (NUMBERS 117; 144; 171; AND 191) BY D. C. HAHL AND KARL W. RATZLAFF OF THE U.S. GEOLOGICAL SURVEY FOR THE TEXAS WATER DEVELOPMENT BOARD. THE REPORTS ARE TITLED "CHEMICAL AND PHYSICAL CHARACTERISTICS OF WATER IN ESTUARIES OF TEXAS SEPTEMBER 1967-SEPTEMBER 1968; OCTOBER 1968-SEPTEMBER 1969; OCTOBER 1969-SEPTEMBER 1970; AND OCTOBER 1970-SEPTEMBER 1971" AND WERE PUBLISHED IN MAY 1970; APRIL 1972; JUNE 1973; AND MAY 1975 RESPECTIVELY. THE PURPOSE OF THESE REPORTS WAS TO CREATE "A LONG-TERM RECORD OF THE CHEMICAL; PHYSICAL; AND HYDRAULIC CHARACTERISTICS OF THE TEXAS ESTUARINE SYSTEMS." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/22/68-10/07/70	7	1.	1.729	3.	0.1	1.516	1.231	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/22/68-10/07/70	7	28.2	29.157	32.5	27.2	4.96	2.227	**	**	**	**
00078	TRANSPARENCY, SECCHI DISC (METERS)	08/22/68-10/07/70	3	0.91	0.653	0.97	0.08	0.247	0.497	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/22/68-10/07/70	7	56000.	58142.857	66000.	49000.	61142857.143	7819.39	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/22/68-10/07/70	7	7.2	7.429	9.7	5.4	2.876	1.696	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/22/68-10/07/70	7	109.	123.714	170.	92.	1052.238	32.438	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	08/22/68-10/07/70	7	8.3	8.286	8.4	8.1	0.018	0.135	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	08/22/68-10/07/70	7	8.3	8.267	8.4	8.1	0.019	0.136	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/22/68-10/07/70	7	0.005	0.005	0.008	0.004	0.	0.002	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: PAIS0026

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	5/01-10/31 Obs	5/01-10/31 Exceed	5/01-10/31 Prop.	11/01-4/30 Obs	11/01-4/30 Exceed	11/01-4/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	7	0	0.00	7	0	0.00									
00406	PH, FIELD	Marine Chronic	8.5	7	0	0.00	7	0	0.00									
		Other-Lo Lim.	6.5	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: PAIS0027

NPS Station ID: PAIS0027
LAT/LON: 26.599920/ -97.410754
Agency: 11NPSWRD
Date Created: 02/13/99
Location: LOWER LAGUNA MADRE STATION 23
FIPS State/County: 48261 TEXAS/KENEDY
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_BREU_23
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110207
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110207
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PORT MANSFIELD TEXAS-KENEDY COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 23 IN THE LOWER LAGUNA MADRE. DATA ARE FROM A REPORT BY JOSEPH P. BREUER; MARINE BIOLOGIST WITH THE TEXAS GAME AND FISH COMMISSION. THE REPORT IS TITLED "AN ECOLOGICAL SURVEY OF THE LOWER LAGUNA MADRE OF TEXAS; 1953-1959." THE PURPOSE OF THIS REPORT WAS TO PRESENT "HYDROGRAPHIC DATA AND ANNOTATED COMMENTS ON THE DISTRIBUTION AND HABITS OF SPECIES FOR THE LOWER LAGUNA MADRE OF TEXAS." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0027

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00480	SALINITY - PARTS PER THOUSAND	07/15/54-06/15/56	13	41.1	39.746	48.	25.5	45.083	6.714	26.62	36.85	44.8	47.68

** - 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

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

Station Inventory for Station: PAIS0028

NPS Station ID: PAIS0028
LAT/LON: 26.603615/ -97.366948
Agency: 112WRD
Date Created: 05/19/79
Location: 1218801LAGUNA MADRE ES LINE 188 SITE 01
FIPS State/County: 48489 TEXAS/WILLACY
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): 263613097220100
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110207
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 12110207
RF1 Mile Point: 0.000
Distance from RF1: 7.40
On/Off RF1:
RF3 Index: 12110207176900.00
RF3 Mile Point: 0.00
Distance from RF3: 0.53
On/Off RF3:
Description:

Parameter Inventory for Station: PAIS0028

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/22/68-03/29/82	24	1.	1.963	5.	0.1	1.677	1.295	1.	1.	3.	4.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/22/68-03/29/82	24	24.25	23.213	32.5	10.	42.611	6.528	11.5	19.125	28.35	30.6
00078	TRANSPARENCY, SECCHI DISC (METERS)	08/22/68-03/29/82	11	0.53	0.513	0.97	0.18	0.08	0.283	0.188	0.24	0.76	0.958
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/22/68-03/29/82	24	49500.	49279.167	66000.	35200.	95652155.797	9780.192	35900.	40000.	56375.	66000.
00300	OXYGEN, DISSOLVED MG/L	08/22/68-03/29/82	24	7.6	7.708	10.9	5.4	2.601	1.613	5.65	6.15	8.9	10.15
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/22/68-03/29/82	24	98.	108.233	169.9	88.	517.267	22.743	91.	95.25	112.725	152.
00400	PH (STANDARD UNITS)	08/22/68-03/29/82	24	8.3	8.276	8.6	8.	0.033	0.18	8.	8.1	8.4	8.55
00400	CONVERTED PH (STANDARD UNITS)	08/22/68-03/29/82	24	8.3	8.241	8.6	8.	0.034	0.184	8.	8.1	8.4	8.55
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/22/68-03/29/82	24	0.005	0.006	0.01	0.003	0.	0.002	0.003	0.004	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: PAIS0028

				Total	Exceed	Prop.	----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	24	0	0.00	12	0	0.00	12	0	0.00						
00400	PH	Marine Chronic	8.5	24	4	0.17	12	2	0.17	12	2	0.17						
		Other-Lo Lim.	6.5	24	0	0.00	12	0	0.00	12	0	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: 5/01 to 10/31 - Station PAIS0028

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/22/68-03/29/82	12	1.5	1.925	4.	0.1	1.504	1.226	0.37	1.	3.	3.7
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/22/68-03/29/82	12	28.3	28.55	32.5	24.5	4.477	2.116	25.31	27.55	28.875	32.41
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/22/68-03/29/82	12	55500.	54833.333	66000.	38000.	70833333.333	8416.254	41300.	49250.	63625.	66000.
00300	OXYGEN, DISSOLVED MG/L	08/22/68-03/29/82	12	6.35	6.975	9.7	5.4	2.377	1.542	5.46	5.725	8.2	9.67
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/22/68-03/29/82	12	99.95	112.55	169.9	88.	799.183	28.27	88.9	93.	125.175	168.73
00400	PH (STANDARD UNITS)	08/22/68-03/29/82	12	8.3	8.308	8.5	8.1	0.019	0.138	8.1	8.2	8.4	8.5
00400	CONVERTED PH (STANDARD UNITS)	08/22/68-03/29/82	12	8.3	8.288	8.5	8.1	0.019	0.14	8.1	8.2	8.4	8.5
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/22/68-03/29/82	12	0.005	0.005	0.008	0.003	0.	0.002	0.003	0.004	0.006	0.008

** - Less than 9 observations ## - Computed 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: 11/01 to 4/30 - Station PAIS0028

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/22/68-03/29/82	12	1.	2.	5.	1.	2.	1.414	1.	1.	3.	4.7
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/22/68-03/29/82	12	19.25	17.875	24.	10.	22.46	4.739	10.	13.75	20.5	24.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/22/68-03/29/82	12	41350.	43725.	57000.	35200.	61860227.273	7865.127	35380.	36250.	50750.	56700.
00300	OXYGEN, DISSOLVED MG/L	08/22/68-03/29/82	12	8.5	8.442	10.9	6.6	1.888	1.374	6.63	7.375	9.225	10.81
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/22/68-03/29/82	12	98.	103.917	138.	91.	241.72	15.547	91.3	95.25	105.	136.8
00400	PH (STANDARD UNITS)	08/22/68-03/29/82	12	8.25	8.243	8.6	8.	0.047	0.216	8.	8.025	8.385	8.6
00400	CONVERTED PH (STANDARD UNITS)	08/22/68-03/29/82	12	8.247	8.198	8.6	8.	0.049	0.221	8.	8.025	8.385	8.6
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/22/68-03/29/82	12	0.006	0.006	0.01	0.003	0.	0.003	0.003	0.004	0.009	0.01

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

Station Inventory for Station: PAIS0029

NPS Station ID: PAIS0029
LAT/LON: 26.636503/ -97.423615
Agency: 11NPSWRD
Date Created: 02/13/99
Location: LOWER LAGUNA MADRE STATION 24
FIPS State/County: 48261 TEXAS/KENEDY
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_BREU_24
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110207
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110207
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH OF POTRERO LOPENO NW; TEXAS-KENEDY COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 24 IN THE LOWER LAGUNA MADRE. DATA ARE FROM A REPORT BY JOSEPH P. BREUER; MARINE BIOLOGIST WITH THE TEXAS GAME AND FISH COMMISSION. THE REPORT IS TITLED "AN ECOLOGICAL SURVEY OF THE LOWER LAGUNA MADRE OF TEXAS; 1953-1959." THE PURPOSE OF THIS REPORT WAS TO PRESENT "HYDROGRAPHIC DATA AND ANNOTATED COMMENTS ON THE DISTRIBUTION AND HABITS OF SPECIES FOR THE LOWER LAGUNA MADRE OF TEXAS." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0029

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00480	SALINITY - PARTS PER THOUSAND	07/15/54-06/15/56	13	43.5	40.615	48.8	25.1	66.635	8.163	26.42	33.95	47.7	48.76

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

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

Station Inventory for Station: PAIS0030

NPS Station ID: PAIS0030
LAT/LON: 26.682226/ -97.453060
Agency: 112WRD
Date Created: 04/18/81
Location: 1217503LAGUNA MADRE ES LINE 175 SITE 03
FIPS State/County: 48261 TEXAS/KENEDY
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): 264056097271100
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110207
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 12110207001
RF1 Mile Point: 62.940
Distance from RF1: 13.40
On/Off RF1: ON
RF3 Index: 12110207130500.00
RF3 Mile Point: 7.41
Distance from RF3: 0.09
On/Off RF3:
Description:

Parameter Inventory for Station: PAIS0030

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/23/68-06/04/75	39	5.	5.467	16.	0.2	23.725	4.871	1.	1.	10.	14.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/23/68-06/04/75	39	26.1	25.438	29.4	19.3	8.052	2.838	19.8	24.	27.	29.1
00070	TURBIDITY, (JACKSON CANDLE UNITS)	09/27/72-06/04/75	30	20.	30.997	249.9	0.	2014.697	44.885	5.5	15.	30.	40.
00078	TRANSPARENCY, SECCHI DISC (METERS)	08/23/68-06/04/75	14	1.22	1.889	6.6	0.22	3.972	1.993	0.455	0.975	1.67	6.5
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/23/68-06/04/75	39	50000.	52282.051	66000.	46000.	36997300.945	6082.541	46000.	46000.	58000.	61000.
00300	OXYGEN, DISSOLVED MG/L	08/23/68-02/05/75	34	6.4	6.218	8.6	1.8	1.671	1.293	5.05	5.975	7.	7.25
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/23/68-02/05/75	34	92.5	92.594	147.9	27.	448.839	21.186	77.5	86.	103.15	113.95
00310	BOD, 5 DAY, 20 DEG C MG/L	09/11/69-10/07/70	3	0.8	0.767	0.8	0.7	0.003	0.058	**	**	**	**
00400	PH (STANDARD UNITS)	08/23/68-06/04/75	33	8.2	8.291	8.7	7.9	0.064	0.253	7.94	8.1	8.5	8.66
00400	CONVERTED PH (STANDARD UNITS)	08/23/68-06/04/75	33	8.2	8.223	8.7	7.9	0.069	0.262	7.94	8.1	8.5	8.66
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/23/68-06/04/75	33	0.006	0.006	0.013	0.002	0.	0.003	0.002	0.003	0.008	0.012
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/11/69-10/07/70	3	0.02	0.02	0.04	0.	0.	0.02	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	09/11/69-10/07/70	3	0.04	0.03	0.05	0.	0.001	0.026	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/11/69-10/07/70	3	0.	0.	0.	0.	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/11/69-10/07/70	3	0.	0.02	0.06	0.	0.001	0.035	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/11/69-10/07/70	3	0.01	0.02	0.04	0.01	0.	0.017	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/11/69-10/07/70	3	0.	0.007	0.02	0.	0.	0.012	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/11/69-10/07/70	3	1.6	1.733	2.5	1.1	0.503	0.709	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: PAIS0030

				Total	Exceed	Prop.	----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------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.	30	2	0.07	19	0	0.00	11	2	0.18						
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	34	2	0.06	23	2	0.09	11	0	0.00						
00400	PH	Marine Chronic	8.5	33	13	0.39	22	8	0.36	11	5	0.45						
		Other-Lo Lim.	6.5	33	0	0.00	22	0	0.00	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

Seasonal Analysis for Season #1: 5/01 to 10/31 - Station PAIS0030

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/23/68-06/04/75	28	4.5	5.4	16.	0.2	25.354	5.035	1.	1.	9.25	15.1
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/23/68-06/04/75	28	26.8	26.604	29.4	23.	3.567	1.889	23.45	26.1	28.1	29.13
00078	TRANSPARENCY, SECCHI DISC (METERS)	08/23/68-06/04/75	10	1.285	2.279	6.6	0.69	5.022	2.241	0.728	1.085	2.898	6.58
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/23/68-06/04/75	28	51000.	53928.571	66000.	46000.	39920634.921	6318.278	46000.	50000.	59000.	66000.
00300	OXYGEN, DISSOLVED MG/L	08/23/68-02/05/75	23	6.4	6.109	8.6	1.8	2.353	1.534	3.26	5.9	7.	7.32
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/23/68-02/05/75	23	98.	94.443	147.9	27.	653.925	25.572	48.2	87.	105.9	119.3
00400	PH (STANDARD UNITS)	08/23/68-06/04/75	22	8.2	8.305	8.7	7.9	0.072	0.268	7.9	8.1	8.525	8.7
00400	CONVERTED PH (STANDARD UNITS)	08/23/68-06/04/75	22	8.2	8.229	8.7	7.9	0.078	0.279	7.9	8.1	8.525	8.7
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/23/68-06/04/75	22	0.006	0.006	0.013	0.002	0.	0.004	0.002	0.003	0.008	0.013

** - Less than 9 observations ## - Computed 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: 11/01 to 4/30 - Station PAIS0030

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/23/68-06/04/75	11	5.	5.636	14.	1.	21.655	4.653	1.	1.	10.	13.6
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/23/68-06/04/75	11	24.7	22.473	25.1	19.3	7.492	2.737	19.34	19.7	24.8	25.08
00078	TRANSPARENCY, SECCHI DISC (METERS)	08/23/68-06/04/75	4	0.89	0.913	1.65	0.22	0.368	0.607	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/23/68-06/04/75	11	46000.	48090.909	51000.	46000.	5890909.091	2427.12	46000.	46000.	51000.	51000.
00300	OXYGEN, DISSOLVED MG/L	08/23/68-02/05/75	11	6.3	6.445	7.3	5.7	0.255	0.505	5.76	6.	7.	7.24
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/23/68-02/05/75	11	89.	88.727	96.	81.	18.218	4.268	81.6	86.	92.	95.4
00400	PH (STANDARD UNITS)	08/23/68-06/04/75	11	8.1	8.264	8.5	8.	0.053	0.229	8.	8.1	8.5	8.5
00400	CONVERTED PH (STANDARD UNITS)	08/23/68-06/04/75	11	8.1	8.212	8.5	8.	0.056	0.236	8.	8.1	8.5	8.5
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/23/68-06/04/75	11	0.008	0.006	0.01	0.003	0.	0.003	0.003	0.003	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 box-and-whisker plot

Station Inventory for Station: PAIS0031

NPS Station ID: PAIS0031 | LAT/LON: 26.685503/ -97.441949 | Agency: 11NPSWRD | Date Created: 02/20/99
Location: LOWER LAGUNA MADRE TRANSECT 17 SITE 2 | FIPS State/County: 48261 TEXAS/KENEDY
Station Type: /TYPA/AMBNT/ESTURY | STORET Station ID(s): PAIS_TWDB_17-2
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 12110207 | Depth of Water: 0 | Aquifer:
Major Basin: WESTERN GULF | Elevation: 0 | Water Body Id:
Minor Basin: NUECES RIVER | ECO Region:
RF1 Index: 12110207 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: 12110208252000.00 | RF3 Mile Point: 0.00 | Distance from RF3: 0.29 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH OF POTRERO LOPENO NW KENEDY C 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT TRANSECT 17 SITE 2 IN THE LOWER LAGUNA MADRE. DATA ARE FROM A SERIES OF YEARLY REPORTS (NUMBERS 117; 144; 171; AND 191) BY D. C. HAHL AND KARL W. RATZLAFF OF THE U.S. GEOLOGICAL SURVEY FOR THE TEXAS WATER DEVELOPMENT BOARD. THE REPORTS ARE TITLED "CHEMICAL AND PHYSICAL CHARACTERISTICS OF WATER IN ESTUARIES OF TEXAS SEPTEMBER 1967-SEPTEMBER 1968; OCTOBER 1968-SEPTEMBER 1969; OCTOBER 1969-SEPTEMBER 1970; AND OCTOBER 1970-SEPTEMBER 1971" AND WERE PUBLISHED IN MAY 1970; APRIL 1972; JUNE 1973; AND MAY 1975 RESPECTIVELY. THE PURPOSE OF THESE REPORTS WAS TO CREATE "A LONG-TERM RECORD OF THE CHEMICAL; PHYSICAL; AND HYDRAULIC CHARACTERISTICS OF THE TEXAS ESTUARINE SYSTEMS." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0031

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/23/68-10/07/70	10	5.	6.6	14.	1.	25.378	5.038	1.	1.	11.5	13.9
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/23/68-10/07/70	10	29.45	28.8	29.6	27.1	1.276	1.129	27.11	27.2	29.525	29.6
00078	TRANSPARENCY, SECCHI DISC (METERS)	08/23/68-10/07/70	3	1.4	1.1	1.83	0.07	0.842	0.918	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/23/68-10/07/70	10	58000.	60100.	73000.	55000.	42322222.222	6505.553	55000.	55000.	66500.	72500.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/07/70-10/07/70	2	58800.	58800.	59000.	58600.	80000.	282.843	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/23/68-10/07/70	10	5.8	5.86	7.	5.3	0.203	0.45	5.32	5.65	5.925	6.9
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/23/68-10/07/70	10	95.	98.3	121.	88.	88.9	9.429	88.4	93.5	101.75	119.6
00310	BOD, 5 DAY, 20 DEG C MG/L	09/11/69-10/07/70	3	0.9	1.4	2.5	0.8	0.91	0.954	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	08/23/68-10/07/70	10	8.5	8.43	8.7	8.1	0.058	0.241	8.1	8.1	8.625	8.7
00406	CONVERTED PH, FIELD, STANDARD UNITS	08/23/68-10/07/70	10	8.5	8.367	8.7	8.1	0.062	0.25	8.1	8.1	8.625	8.7
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/23/68-10/07/70	10	0.003	0.004	0.008	0.002	0.	0.003	0.002	0.002	0.008	0.008
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/07/70-10/07/70	2	0.08	0.08	0.1	0.06	0.001	0.028	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/07/70-10/07/70	2	0.08	0.08	0.12	0.04	0.003	0.057	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/11/69-10/07/70	3 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/11/69-10/07/70	3	0.02	0.027	0.05	0.01	0.	0.021	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/11/69-10/07/70	3	0.02	0.013	0.02	0.	0.	0.012	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/11/69-10/07/70	3	2.5	3.067	4.2	2.5	0.963	0.981	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: PAIS0031

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	5/01-10/31 Obs	5/01-10/31 Exceed	5/01-10/31 Prop.	11/01-4/30 Obs	11/01-4/30 Exceed	11/01-4/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	10	0	0.00	10	0	0.00									
00406	PH, FIELD	Marine Chronic	8.5	10	7	0.70	10	7	0.70									
		Other-Lo Lim.	6.5	10	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: PAIS0032

NPS Station ID: PAIS0032
LAT/LON: 26.685559/ -97.441393
Agency: 112WRD
Date Created: 04/18/81
Location: 1217502LAGUNA MADRE ES LINE 175 SITE 02
FIPS State/County: 48261 TEXAS/KENEDY
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): 264108097262900
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110207
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 12110207001
RF1 Mile Point: 62.940
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 12110207000163.59
RF3 Mile Point: 68.98
Distance from RF3: 0.41
On/Off RF3:
Description:

Parameter Inventory for Station: PAIS0032

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/23/68-06/04/75	20	4.	4.65	14.	1.	17.608	4.196	1.	1.	5.	12.8
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/23/68-06/04/75	20	27.2	27.27	29.6	23.5	4.138	2.034	24.08	25.925	29.475	29.59
00070	TURBIDITY, (JACKSON CANDLE UNITS)	04/24/74-06/04/75	6	20.	22.5	45.	10.	147.5	12.145	**	**	**	**
00078	TRANSPARENCY, SECCHI DISC (METERS)	08/23/68-06/04/75	8	1.08	1.716	6.1	0.64	3.287	1.813	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/23/68-06/04/75	20	53500.	55050.	73000.	48000.	48576315.789	6969.671	48000.	50000.	58000.	67800.
00300	OXYGEN, DISSOLVED MG/L	08/23/68-10/23/74	18	5.9	6.	7.	5.3	0.268	0.518	5.48	5.675	6.175	6.91
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/23/68-10/23/74	18	94.5	95.1	120.9	81.	82.132	9.063	85.5	87.75	99.25	108.3
00310	BOD, 5 DAY, 20 DEG C MG/L	09/11/69-10/07/70	3	0.9	1.4	2.5	0.8	0.91	0.954	**	**	**	**
00400	PH (STANDARD UNITS)	08/23/68-06/04/75	18	8.3	8.306	8.7	7.9	0.072	0.269	7.99	8.1	8.5	8.7
00400	CONVERTED PH (STANDARD UNITS)	08/23/68-06/04/75	18	8.255	8.231	8.7	7.9	0.078	0.28	7.99	8.1	8.5	8.7
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/23/68-06/04/75	18	0.006	0.006	0.013	0.002	0.	0.003	0.002	0.003	0.008	0.01
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/11/69-10/07/70	3	0.06	0.053	0.1	0.	0.003	0.05	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	09/11/69-10/07/70	3	0.04	0.053	0.12	0.	0.004	0.061	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/11/69-10/07/70	3	0.	0.	0.	0.	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/11/69-10/07/70	3	0.06	0.04	0.06	0.	0.001	0.035	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/11/69-10/07/70	3	0.02	0.027	0.05	0.01	0.	0.021	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/11/69-10/07/70	3	0.02	0.013	0.02	0.	0.	0.012	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/11/69-10/07/70	3	2.5	3.067	4.2	2.5	0.963	0.981	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: PAIS0032

				Total	Exceed	Prop.	----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------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.	6	0	0.00	4	0	0.00	2	0	0.00						
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	18	0	0.00	16	0	0.00	2	0	0.00						
00400	PH	Marine Chronic	8.5	18	9	0.50	16	9	0.56	2	0	0.00						
		Other-Lo Lim.	6.5	18	0	0.00	16	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

Seasonal Analysis for Season #1: 5/01 to 10/31 - Station PAIS0032

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/23/68-06/04/75	18	4.5	4.889	14.	1.	18.81	4.337	1.	1.	6.25	13.1
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/23/68-06/04/75	18	27.55	27.544	29.6	23.5	3.827	1.956	23.95	26.	29.5	29.6
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/23/68-06/04/75	18	55000.	55833.333	73000.	48000.	47794117.647	6913.329	48000.	51500.	58000.	68500.
00300	OXYGEN, DISSOLVED MG/L	08/23/68-10/23/74	16	5.85	6.006	7.	5.3	0.303	0.551	5.44	5.625	6.525	6.93
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/23/68-10/23/74	16	95.	96.175	120.9	81.	81.955	9.053	84.5	91.25	99.75	111.1
00400	PH (STANDARD UNITS)	08/23/68-06/04/75	16	8.5	8.344	8.7	7.9	0.068	0.261	8.04	8.1	8.5	8.7
00400	CONVERTED PH (STANDARD UNITS)	08/23/68-06/04/75	16	8.5	8.271	8.7	7.9	0.074	0.271	8.04	8.1	8.5	8.7
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/23/68-06/04/75	16	0.003	0.005	0.013	0.002	0.	0.003	0.002	0.003	0.008	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

Seasonal Analysis for Season #2: 11/01 to 4/30 - Station PAIS0032

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/23/68-06/04/75	2	2.5	2.5	4.	1.	4.5	2.121	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/23/68-06/04/75	2	24.8	24.8	24.8	24.8	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/23/68-06/04/75	2	48000.	48000.	48000.	48000.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	08/23/68-10/23/74	2	5.95	5.95	6.	5.9	0.005	0.071	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/23/68-10/23/74	2	86.5	86.5	87.	86.	0.5	0.707	**	**	**	**
00400	PH (STANDARD UNITS)	08/23/68-06/04/75	2	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/23/68-06/04/75	2	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/23/68-06/04/75	2	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**

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

Station Inventory for Station: PAIS0033

NPS Station ID: PAIS0033 LAT/LON: 26.686837/ -97.427670 Agency: 11NPSWRD Date Created: 02/20/99
Location: LOWER LAGUNA MADRE TRANSECT 17 SITE 1 FIPS State/County: 48261 TEXAS/KENEDY
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): PAIS_TWDB_17-1
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110207 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110207 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH OF POTRERO LOPENO NW KENEDY C 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT TRANSECT 17 SITE 1 IN THE LOWER LAGUNA MADRE. DATA ARE FROM A SERIES OF YEARLY REPORTS (NUMBERS 117; 144; 171; AND 191) BY D. C. HAHL AND KARL W. RATZLAFF OF THE U.S. GEOLOGICAL SURVEY FOR THE TEXAS WATER DEVELOPMENT BOARD. THE REPORTS ARE TITLED "CHEMICAL AND PHYSICAL CHARACTERISTICS OF WATER IN ESTUARIES OF TEXAS SEPTEMBER 1967-SEPTEMBER 1968; OCTOBER 1968-SEPTEMBER 1969; OCTOBER 1969-SEPTEMBER 1970; AND OCTOBER 1970-SEPTEMBER 1971" AND WERE PUBLISHED IN MAY 1970; APRIL 1972; JUNE 1973; AND MAY 1975 RESPECTIVELY. THE PURPOSE OF THESE REPORTS WAS TO CREATE "A LONG-TERM RECORD OF THE CHEMICAL; PHYSICAL; AND HYDRAULIC CHARACTERISTICS OF THE TEXAS ESTUARINE SYSTEMS." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/23/68-10/07/70	6	2.	2.167	4.	1.	1.767	1.329	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/23/68-10/07/70	6	28.2	28.45	29.3	27.9	0.403	0.635	**	**	**	**
00078	TRANSPARENCY, SECCHI DISC (METERS)	08/23/68-10/07/70	3	0.91	0.737	1.22	0.08	0.347	0.589	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/23/68-10/07/70	6	58000.	59166.667	64000.	55000.	15366666.667	3920.034	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/07/70-10/07/70	2	56900.	56900.	57000.	56800.	20000.	141.421	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/23/68-10/07/70	6	7.55	6.567	8.1	4.2	3.263	1.806	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/23/68-10/07/70	6	122.	107.5	135.	68.	913.1	30.218	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	09/11/69-10/07/70	4	2.25	2.225	3.8	0.6	2.749	1.658	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	08/23/68-10/07/70	6	8.5	8.367	8.6	8.	0.083	0.288	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	08/23/68-10/07/70	6	8.5	8.282	8.6	8.	0.091	0.302	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/23/68-10/07/70	6	0.003	0.005	0.01	0.003	0.	0.004	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/07/70-10/07/70	2 ##	0.03	0.03	0.06	0.	0.002	0.042	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/07/70-10/07/70	2	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/11/69-10/07/70	4 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/11/69-10/07/70	4	0.03	0.035	0.07	0.01	0.001	0.025	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/11/69-10/07/70	4	0.01	0.015	0.04	0.	0.	0.017	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/11/69-10/07/70	4	2.6	2.55	4.7	0.3	5.897	2.428	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: PAIS0033

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	5/01-10/31 Obs	5/01-10/31 Exceed	5/01-10/31 Prop.	11/01-4/30 Obs	11/01-4/30 Exceed	11/01-4/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	6	0	0.00	6	0	0.00									
00406	PH, FIELD	Marine Chronic	8.5	6	4	0.67	6	4	0.67									
		Other-Lo Lim.	6.5	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: PAIS0034

NPS Station ID: PAIS0034
LAT/LON: 26.693337/ -97.414170
Agency: 112WRD
Date Created: 09/26/78
Location: 1217501LAGUNA MADRE ES LINE 175 SITE 01
FIPS State/County: 48261 TEXAS/KENEDY
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): 264136097245100
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110207
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 12110207
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110205064000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.39
On/Off RF3:
Description:

Parameter Inventory for Station: PAIS0034

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/23/68-06/27/78	8	2.	2.375	5.	1.	2.554	1.598	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/23/68-06/27/78	8	28.7	28.713	29.5	27.9	0.524	0.724	**	**	**	**
00078	TRANSPARENCY, SECCHI DISC (METERS)	08/23/68-06/27/78	4	0.84	0.893	1.22	0.67	0.057	0.239	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/23/68-06/27/78	8	57000.	58125.	64000.	55000.	14696428.571	3833.592	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	08/23/68-06/27/78	8	6.75	6.413	8.1	4.2	2.413	1.553	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/23/68-06/27/78	8	110.45	105.45	134.9	68.	663.574	25.76	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	09/11/69-10/07/70	4	2.25	2.225	3.8	0.6	2.749	1.658	**	**	**	**
00400	PH (STANDARD UNITS)	08/23/68-06/27/78	8	8.25	8.275	8.6	8.	0.088	0.296	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/23/68-06/27/78	8	8.182	8.193	8.6	8.	0.096	0.309	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/23/68-06/27/78	8	0.007	0.006	0.01	0.003	0.	0.004	**	**	**	**
00600	NITROGEN, TOTAL (MG/L AS N)	06/27/78-06/27/78	2	0.74	0.74	0.76	0.72	0.001	0.028	**	**	**	**
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	06/27/78-06/27/78	2	0.72	0.72	0.74	0.7	0.001	0.028	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/11/69-06/27/78	6	0.005	0.013	0.06	0.	0.001	0.023	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	09/11/69-06/27/78	6	0.01	0.017	0.04	0.	0.	0.019	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/11/69-06/27/78	6	0.	0.	0.	0.	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/27/78-06/27/78	2	0.73	0.73	0.75	0.71	0.001	0.028	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/27/78-06/27/78	2	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/11/69-10/07/70	4	0.03	0.045	0.12	0.	0.003	0.052	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/11/69-06/27/78	6	0.035	0.037	0.07	0.01	0.	0.02	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/11/69-10/07/70	4	0.01	0.015	0.04	0.	0.	0.017	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	06/27/78-06/27/78	2	6.8	6.8	7.5	6.1	0.98	0.99	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/11/69-10/07/70	4	2.6	2.55	4.7	0.3	5.897	2.428	**	**	**	**
71887	NITROGEN, TOTAL, AS NO3 - MG/L	06/27/78-06/27/78	2	3.3	3.3	3.4	3.2	0.02	0.141	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: PAIS0034

				Total	Exceed	Prop.	----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------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.	8	0	0.00	8	0	0.00									
00400	PH	Marine Chronic	8.5	8	4	0.50	8	4	0.50									
		Other-Lo Lim.	6.5	8	0	0.00	8	0	0.00									

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

Station Inventory for Station: PAIS0035

NPS Station ID: PAIS0035
LAT/LON: 26.710781/ -97.450088
Agency: 11NPSWRD
Date Created: 02/13/99
Location: LOWER LAGUNA MADRE STATION 25
FIPS State/County: 48261 TEXAS/KENEDY
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_BREU_25
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110207
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110207
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH OF POTRERO LOPENO NW; TEXAS-KENEDY COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 25 IN THE LOWER LAGUNA MADRE. DATA ARE FROM A REPORT BY JOSEPH P. BREUER; MARINE BIOLOGIST WITH THE TEXAS GAME AND FISH COMMISSION. THE REPORT IS TITLED "AN ECOLOGICAL SURVEY OF THE LOWER LAGUNA MADRE OF TEXAS; 1953-1959." THE PURPOSE OF THIS REPORT WAS TO PRESENT "HYDROGRAPHIC DATA AND ANNOTATED COMMENTS ON THE DISTRIBUTION AND HABITS OF SPECIES FOR THE LOWER LAGUNA MADRE OF TEXAS." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0035

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00480	SALINITY - PARTS PER THOUSAND	07/15/54-06/15/56	13	43.	43.038	55.	27.	66.059	8.128	27.8	40.05	49.45	53.84

** - Less than 9 observations ## - 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: PAIS0036

NPS Station ID: PAIS0036
LAT/LON: 26.727032/ -97.465420
Agency: 11NPSWRD
Date Created: 06/12/99
Location: ZONE 1 EAST FLAT BAR SEINE AREAS
FIPS State/County: 48261 TEXAS/KENEDY
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_STOK_1EBS
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110207
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110207
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH OF POTRERO LOPENO NW; TEXAS-KENEDY COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS STATION IS AT THE EAST FLAT BAR SEINE AREAS IN ZONE 1. ZONE 1 IS A COMPOSITE OF 3 SEPARATE TRANSECTS. THE COORDINATES FOR THIS STATION ARE CENTRALLY LOCATED TO THE ZONE. DATA ARE FROM A REPORT BY GARY M. STOKES; "THE DISTRIBUTION AND ABUNDANCE OF PENAEID SHRIMP IN THE LOWER LAGUNA MADRE OF TEXAS; WITH A DESCRIPTION OF THE LIVE BAIT SHRIMP FISHERY;" 1974. THE PURPOSE OF THE STUDY WAS TO HELP DEPARTMENT OFFICIALS EVALUATE THE CONTRIBUTION OF THE LAGUNA MADRE TO COMMERCIAL FISHING. DATA ARE AVERAGED FOR THE SEASON. DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0036

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: PAIS0037

NPS Station ID: PAIS0037
LAT/LON: 26.727476/ -97.460281
Agency: 11NPSWRD
Date Created: 06/12/99
Location: ZONE 1 EAST FLAT TRAWL AREAS
FIPS State/County: 48261 TEXAS/KENEDY
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_STOK_1ET
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110207
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110207
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH OF POTRERO LOPENO NW; TEXAS-KENEDY COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS STATION IS AT THE EAST FLAT TRAWL AREAS IN ZONE 1. ZONE 1 IS A COMPOSITE OF 3 SEPARATE TRANSECTS. THE COORDINATES FOR THIS STATION ARE CENTRALLY LOCATED TO THE ZONE. DATA ARE FROM A REPORT BY GARY M. STOKES; "THE DISTRIBUTION AND ABUNDANCE OF PENAEID SHRIMP IN THE LOWER LAGUNA MADRE OF TEXAS; WITH A DESCRIPTION OF THE LIVE BAIT SHRIMP FISHERY;" 1974. THE PURPOSE OF THE STUDY WAS TO HELP DEPARTMENT OFFICIALS EVALUATE THE CONTRIBUTION OF THE LAGUNA MADRE TO COMMERCIAL FISHING. DATA ARE AVERAGED FOR THE SEASON. DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0037

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: PAIS0038

NPS Station ID: PAIS0038
LAT/LON: 26.728087/ -97.453476
Agency: 11NPSWRD
Date Created: 06/12/99
Location: ZONE 1 CHANNEL TRAWL AREAS
FIPS State/County: 48261 TEXAS/KENEDY
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_STOK_1CT
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110207
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110207
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH OF POTRERO LOPENO NW; TEXAS-KENEDY COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS STATION IS AT THE CHANNEL TRAWL AREAS IN ZONE 1. ZONE 1 IS A COMPOSITE OF 3 SEPARATE TRANSECTS. THE COORDINATES FOR THIS STATION ARE CENTRALLY LOCATED TO THE ZONE. DATA ARE FROM A REPORT BY GARY M. STOKES; "THE DISTRIBUTION AND ABUNDANCE OF PENAEID SHRIMP IN THE LOWER LAGUNA MADRE OF TEXAS; WITH A DESCRIPTION OF THE LIVE BAIT SHRIMP FISHERY;" 1974. THE PURPOSE OF THE STUDY WAS TO HELP DEPARTMENT OFFICIALS EVALUATE THE CONTRIBUTION OF THE LAGUNA MADRE TO COMMERCIAL FISHING. DATA ARE AVERAGED FOR THE SEASON. DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0038

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: PAIS0039

NPS Station ID: PAIS0039
LAT/LON: 26.728559/ -97.439531
Agency: 11NPSWRD
Date Created: 06/12/99
Location: ZONE 1 WEST FLAT TRAWL AREAS
FIPS State/County: 48261 TEXAS/KENEDY
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_STOK_1WT
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110207
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110207
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH OF POTRERO LOPENO NW; TEXAS-KENEDY COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS STATION IS AT THE WEST FLAT TRAWL AREAS IN ZONE 1. ZONE 1 IS A COMPOSITE OF 3 SEPARATE TRANSECTS. THE COORDINATES FOR THIS STATION ARE CENTRALLY LOCATED TO THE ZONE. DATA ARE FROM A REPORT BY GARY M. STOKES; "THE DISTRIBUTION AND ABUNDANCE OF PENAEID SHRIMP IN THE LOWER LAGUNA MADRE OF TEXAS; WITH A DESCRIPTION OF THE LIVE BAIT SHRIMP FISHERY;" 1974. THE PURPOSE OF THE STUDY WAS TO HELP DEPARTMENT OFFICIALS EVALUATE THE CONTRIBUTION OF THE LAGUNA MADRE TO COMMERCIAL FISHING. DATA ARE AVERAGED FOR THE SEASON. DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0039

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: PAIS0040

NPS Station ID: PAIS0040
LAT/LON: 26.729253/ -97.427531
Agency: 11NPSWRD
Date Created: 06/12/99
Location: ZONE 1 WEST FLAT BAR SEINE AREAS
FIPS State/County: 48261 TEXAS/KENEDY
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_STOK_1WBS
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110207
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110207
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH OF POTRERO LOPENO NW; TEXAS-KENEDY COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS STATION IS AT THE WEST FLAT BAR SEINE AREAS IN ZONE 1. ZONE 1 IS A COMPOSITE OF 3 SEPARATE TRANSECTS. THE COORDINATES FOR THIS STATION ARE CENTRALLY LOCATED TO THE ZONE. DATA ARE FROM A REPORT BY GARY M. STOKES; "THE DISTRIBUTION AND ABUNDANCE OF PENAEID SHRIMP IN THE LOWER LAGUNA MADRE OF TEXAS; WITH A DESCRIPTION OF THE LIVE BAIT SHRIMP FISHERY;" 1974. THE PURPOSE OF THE STUDY WAS TO HELP DEPARTMENT OFFICIALS EVALUATE THE CONTRIBUTION OF THE LAGUNA MADRE TO COMMERCIAL FISHING. DATA ARE AVERAGED FOR THE SEASON. DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0040

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: PAIS0041

NPS Station ID: PAIS0041 LAT/LON: 26.733337/ -97.450005 Agency: 21TXDOH Date Created: 03/24/79
Location: LAGUNA MADRE,1.5 MI FROM COAST IN RED FISH BAY FIPS State/County: 48489 TEXAS/WILLACY
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): LAG00396
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110207 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: RIO GRANDE LOWER BELOW PECOS RIVER ECO Region:
RF1 Index: 12110207 RF1 Mile Point: 0.000 Distance from RF1: 10.70 On/Off RF1:
RF3 Index: 12110207130600.00 RF3 Mile Point: 3.50 Distance from RF3: 0.13 On/Off RF3:
Description:
DATA FROM TEXAS STATE DEPARTMENT OF HEALTH FISH AND SHELLFISH SAMPLES ANALYZED FOR TOXICS SAMPLE TAKEN FROM
LAGUNA MADRE,1.5 MILES FROM COAST IN RED FISH BAY

Parameter Inventory for Station: PAIS0041

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/22/78-05/22/78	1	1421.	1421.	1421.	1421.	0.	0.	**	**	**	**
00024	SAMPLE LENGTH IN INCHES	05/22/78-05/22/78	1	17.	17.	17.	17.	0.	0.	**	**	**	**
71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	05/22/78-05/22/78	1	0.38	0.38	0.38	0.38	0.	0.	**	**	**	**
81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	05/22/78-05/22/78	1	1.	1.	1.	1.	0.	0.	**	**	**	**

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

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

Station Inventory for Station: PAIS0042

NPS Station ID: PAIS0042 LAT/LON: 26.756948/ -97.458338 Agency: 21TXDOH Date Created: 03/24/79
Location: LAGUNA MADRE,1 MI OFF COAST IN RED FISH BAY FIPS State/County: 48489 TEXAS/WILLACY
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): LAG00387
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110207 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: RIO GRANDE LOWER BELOW PECOS RIVER ECO Region:
RF1 Index: 12110207 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208123000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.61 On/Off RF3:
Description:
DATA FROM TEXAS STATE DEPARTMENT OF HEALTH FISH AND SHELLFISH SAMPLES ANALYZED FOR TOXICS SAMPLE TAKEN FROM
LAGUNA MADRE,1 MILE OFF COASTIN RED FISH BAY

Parameter Inventory for Station: PAIS0042

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/17/77-05/17/77	1	2261.	2261.	2261.	2261.	0.	0.	**	**	**	**
00024	SAMPLE LENGTH IN INCHES	05/17/77-05/17/77	1	3.5	3.5	3.5	3.5	0.	0.	**	**	**	**
81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	05/17/77-05/17/77	1	2.	2.	2.	2.	0.	0.	**	**	**	**
81744	CADMIUM IN SHELLFISH TISSUE WET WEIGHT PPM(MG/KG)	05/17/77-05/17/77	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
81746	COPPER IN SHELLFISH TISSUE WET WEIGHT PPM(MG/KG)	05/17/77-05/17/77	1	8.6	8.6	8.6	8.6	0.	0.	**	**	**	**
81748	LEAD IN SHELLFISH TISSUE WET WEIGHT PPM(MG/KG)	05/17/77-05/17/77	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
81749	ZINC IN SHELLFISH TISSUE WET WEIGHT PPM(MG/KG)	05/17/77-05/17/77	1	49.	49.	49.	49.	0.	0.	**	**	**	**
81770	MERCURY IN SHELLFISH TISSUE,WET WEIGHT,(PPM)MG/KG	05/17/77-05/17/77	1	0.083	0.083	0.083	0.083	0.	0.	**	**	**	**

** - Less than 9 observations ## - 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: PAIS0043

NPS Station ID: PAIS0043 LAT/LON: 26.767949/ -97.463809 Agency: 11NPSWRD Date Created: 04/17/99
Location: LIGHT 229 ON THE INTRACOASTAL WATERWAY FIPS State/County: 48261 TEXAS/KENEDY
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): PAIS_CONO_229
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110207 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110207 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE POTRERO LOPENO SW; TEXAS-KENEDY COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT LIGHT 229 ON THE INTRACOASTAL WATERWAY. DATA WERE COLLECTED ALONG A TRANSECT PERPENDICULAR TO THE WATERWAY AND AVERAGED FOR THE MONTH. DATA ARE FROM A REPORT BY JOHN T. CONOVER; "THE ECOLOGY; SEASONAL PERIODICITY; AND DISTRIBUTION OF BENTHIC PLANTS IN SOME TEXAS LAGOONS;" OCTOBER 1963. THE PURPOSE OF THIS REPORT WAS TO "STUDY THE LOCAL EFFECTS OF LIGHT; TEMPERATURE; AND SALINITY ON THE SEASONAL GROWTH OF PLANTS." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0043

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: PAIS0044

NPS Station ID: PAIS0044 LAT/LON: 26.783309/ -97.466670 Agency: 21TXWQB Date Created: 07/23/94
Location: LAGUNA MADRE CHANNEL MARKER C-225A NORTH OF PORT FIPS State/County: 48261 TEXAS/KENEDY
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): 13449 /2491.0600 /2491.6000
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110207 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: Bays and Estuaries ECO Region: 34M
RF1 Index: 12110207 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
LAGUNA MADRE CHANNEL MARKER C-225A NORTH OF PORT MANSFIELD

Parameter Inventory for Station: PAIS0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/23/72-04/21/94	210	5.	6.305	15.	1.	24.433	4.943	1.	1.	10.	15.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/23/72-04/21/94	127	25.7	23.729	30.3	7.3	34.009	5.832	13.26	20.6	28.3	29.
00011p	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	02/23/72-10/09/85	81	78.	73.968	86.5	48.	124.051	11.138	54.26	67.3	83.	84.6
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/23/72-06/20/77	15	11.	15.6	50.	5.	167.4	12.938	5.	8.	20.	44.
00077	TRANSPARENCY, SECCHI DISC (INCHES)	12/04/75-12/06/88	35	32.	35.629	86.	6.	302.77	17.4	18.	24.	40.	64.8
00078	TRANSPARENCY, SECCHI DISC (METERS)	08/17/89-04/21/94	11	0.64	0.71	1.5	0.3	0.138	0.372	0.3	0.43	0.91	1.42
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	09/13/72-04/21/94	145	51300.	52504.828	340000.	12500.	673074907.088	25943.687	36900.	46000.	56400.	63280.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/23/72-07/07/87	48	59792.	61304.5	94080.	34600.	248052613.872	15749.686	40400.	47632.	73892.	82286.4
00300p	OXYGEN, DISSOLVED MG/L	02/23/72-04/21/94	124	6.45	6.673	11.9	3.5	2.26	1.503	4.95	5.5	7.675	8.5
00310	BOD, 5 DAY, 20 DEG C MG/L	02/23/72-06/28/73	5	6.	5.8	9.5	2.5	6.7	2.588	**	**	**	**
00400p	PH (STANDARD UNITS)	02/23/72-04/21/94	129	8.3	8.266	9.	6.2	0.158	0.397	7.9	8.	8.5	8.7
00400p	CONVERTED PH (STANDARD UNITS)	02/23/72-04/21/94	129	8.3	7.859	9.	6.2	0.325	0.57	7.9	8.	8.5	8.7
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/23/72-04/21/94	129	0.005	0.014	0.631	0.001	0.004	0.061	0.002	0.003	0.01	0.013
00403	PH, LAB, STANDARD UNITS SU	02/23/72-07/07/87	48	8.3	8.335	8.9	7.6	0.073	0.269	8.	8.125	8.5	8.71
00403	CONVERTED PH, LAB, STANDARD UNITS	02/23/72-07/07/87	48	8.3	8.253	8.9	7.6	0.079	0.282	8.	8.125	8.5	8.71
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/23/72-07/07/87	48	0.005	0.006	0.025	0.001	0.	0.004	0.002	0.003	0.008	0.01
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	02/06/78-04/21/94	51	137.	138.412	212.	66.	672.007	25.923	108.4	124.	156.	171.4
00480	SALINITY - PARTS PER THOUSAND	04/27/88-04/21/94	27	36.1	35.011	47.9	24.1	53.623	7.323	24.5	26.9	39.6	45.04
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/23/72-04/21/94	68	23.5	34.287	153.	2.5	986.562	31.41	9.7	15.	41.	75.7
00535p	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	02/23/72-04/21/94	67	9.	11.963	51.	0.5	93.131	9.65	3.8	5.	14.	26.4
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/23/72-04/21/94	68	0.05	0.069	0.6	0.005	0.008	0.087	0.01	0.02	0.1	0.101
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	11/10/81-04/21/94	17	0.015	0.014	0.03	0.005	0.	0.006	0.005	0.01	0.018	0.022
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/23/72-04/21/94	67	0.015	0.021	0.24	0.005	0.001	0.032	0.005	0.005	0.03	0.03
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/27/93-04/21/94	4	1.12	1.233	2.	0.69	0.305	0.553	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	02/23/72-10/09/85	44	0.12	0.147	0.43	0.03	0.009	0.096	0.06	0.09	0.178	0.315
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/11/73-10/09/85	39	0.03	0.044	0.21	0.015	0.002	0.045	0.015	0.015	0.04	0.12
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	02/23/72-04/21/94	67	0.05	0.066	0.6	0.01	0.006	0.078	0.02	0.03	0.07	0.122
00671p	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/11/73-04/21/94	62	0.01	0.024	0.21	0.005	0.001	0.029	0.005	0.005	0.03	0.05
00680p	CARBON, TOTAL ORGANIC (MG/L AS C)	06/19/74-04/21/94	57	6.	6.754	17.	0.5	19.037	4.363	0.5	4.	10.	13.2
00940p	CHLORIDE,TOTAL IN WATER MG/L	02/23/72-04/21/94	68	19200.	19137.926	33800.	9880.	21643151.054	4652.22	12490.	16325.	21849.	25400.
00941	CHLORIDE, DISSOLVED IN WATER MG/L	12/04/75-03/17/77	4	16875.	16887.5	19500.	14300.	6850625.	2617.37	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	02/23/72-04/21/94	68	2771.5	2692.118	4470.	632.	451400.434	671.863	1864.	2292.5	3110.	3393.
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	03/17/75-08/05/81	18	0.	24.056	140.	0.	2127.938	46.13	0.	0.	21.25	120.2
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	03/17/75-08/05/81	18	0.	0.557	2.146	0.	0.699	0.836	0.	0.	0.986	2.079
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			3.602								
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	06/09/72-03/21/73	3	2.	434.667	1300.	2.	561601.333	749.401	**	**	**	**

** - Less than 9 observations ## - 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: PAIS0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	06/09/72-03/21/73	3	0.301	1.239	3.114	0.301	2.637	1.624	**	**	**	**
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			17.325								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	03/17/75-04/21/94	38 ##	3.5	3.868	5.	0.5	1.239	1.113	2.4	3.5	5.	5.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	03/17/75-04/21/94	38 ##	0.544	0.558	0.699	-0.301	0.037	0.192	0.376	0.544	0.699	0.699
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			3.614								
31619	FECAL COLIFORM,MPN,BORIC ACID LACTOSE BR,43C,48HR	06/09/72-03/21/73	2	2.	2.	2.	2.	0.	0.	**	**	**	**
31619	LOG FECAL COLIFORM,MPN,BORIC ACID LACTOSE BR,43C,4	06/09/72-03/21/73	2	0.301	0.301	0.301	0.301	0.	0.	**	**	**	**
31619	GM FECAL COLIFORM,MPN,BORIC ACID LACTOSE BR,43C,48	GEOMETRIC MEAN =			2.								
32211p	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	02/23/72-04/21/94	62	4.	10.01	70.	0.5	218.435	14.78	1.	2.5	9.	33.77
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	02/06/78-04/21/94	46 ##	1.	2.856	25.9	0.	26.38	5.136	0.	1.	2.5	6.946
70211	TIDE, HIGH OR LOW,BEFORE OR AFTER,HOUR,MINUTE	09/11/73-12/04/74	5	1.	0.8	2.	0.	0.7	0.837	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	02/06/78-04/21/94	8	38550.	35953.75	43700.	18000.	63910083.929	7994.378	**	**	**	**
72053	DAYS SINCE PRECIPITATION EVENT DAYS	05/15/91-04/21/94	4 ##	1.	1.875	5.	0.5	4.396	2.097	**	**	**	**

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

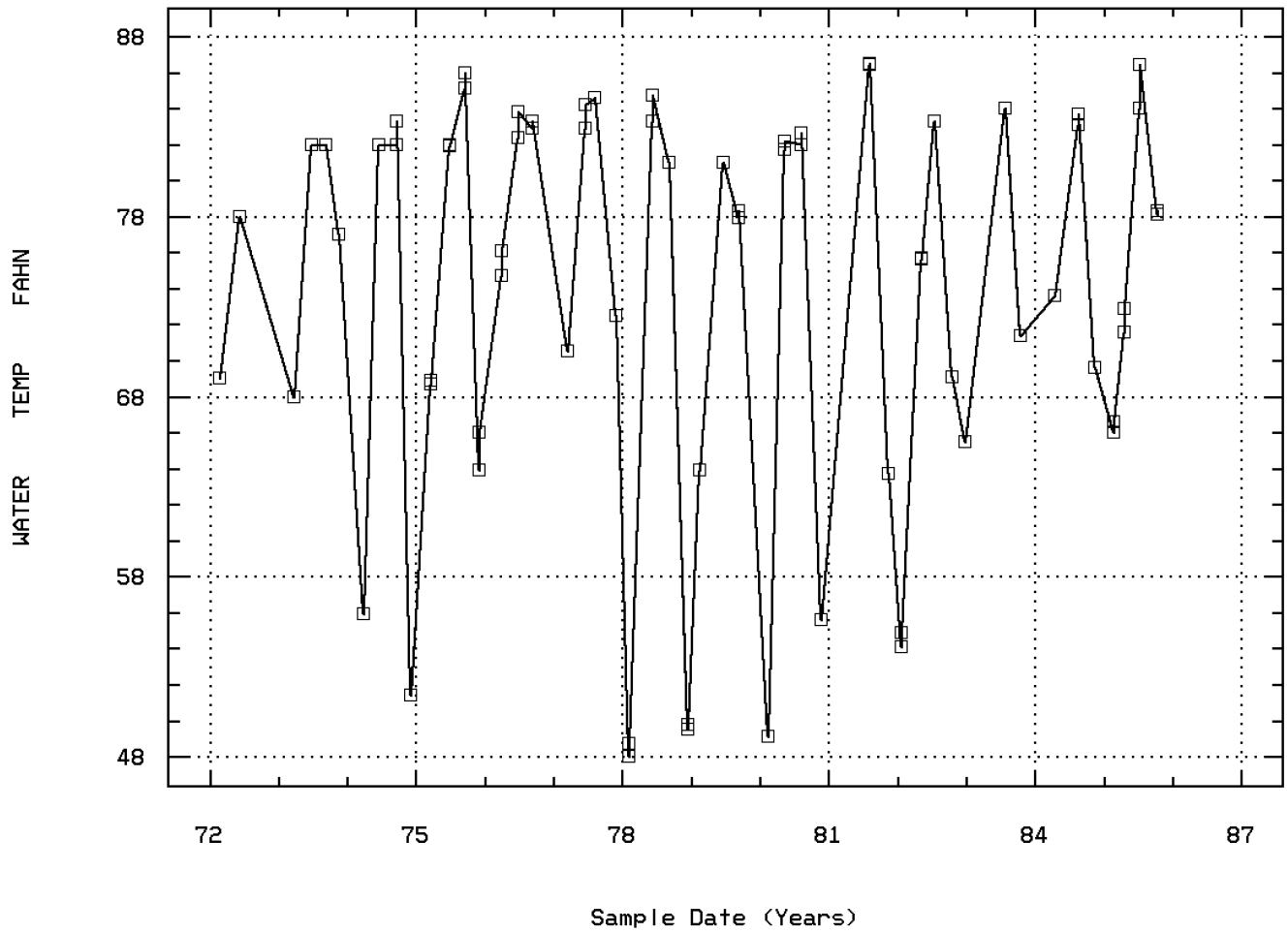
EPA Water Quality Criteria Analysis for Station: PAIS0044

				Total	Exceed	Prop.	----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------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.	15	1	0.07	8	0	0.00	7	1	0.14						
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	124	3	0.02	74	3	0.04	50	0	0.00						
00400	PH	Marine Chronic	8.5	129	42	0.33	78	33	0.42	51	9	0.18						
		Other-Lo Lim.	6.5	129	2	0.02	78	2	0.03	51	0	0.00						
00403	PH, LAB	Marine Chronic	8.5	48	14	0.29	26	14	0.54	22	0	0.00						
		Other-Lo Lim.	6.5	48	0	0.00	26	0	0.00	22	0	0.00						
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	18	0	0.00	11	0	0.00	7	0	0.00						
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	3	1	0.33	2	1	0.50	1	0	0.00						
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	38	0	0.00	22	0	0.00	16	0	0.00						

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

Station: PAIS0044 Parameter Code: 00011

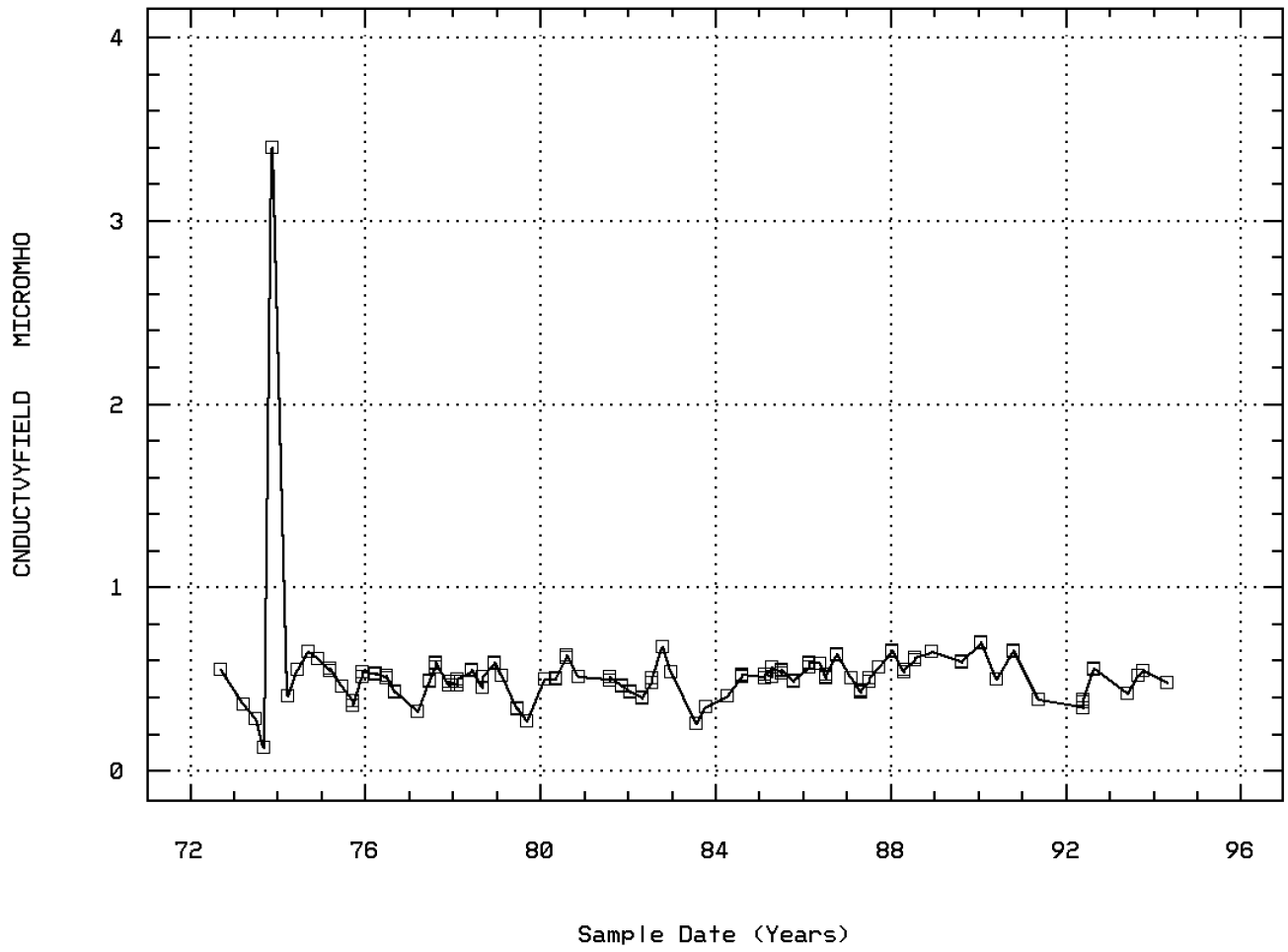
TEMPERATURE, WATER (DEGREES FAHRENHEIT)



LAGUNA MADRE CHANNEL MARKER C-225A NORT

Station: PAIS0044 Parameter Code: 00094

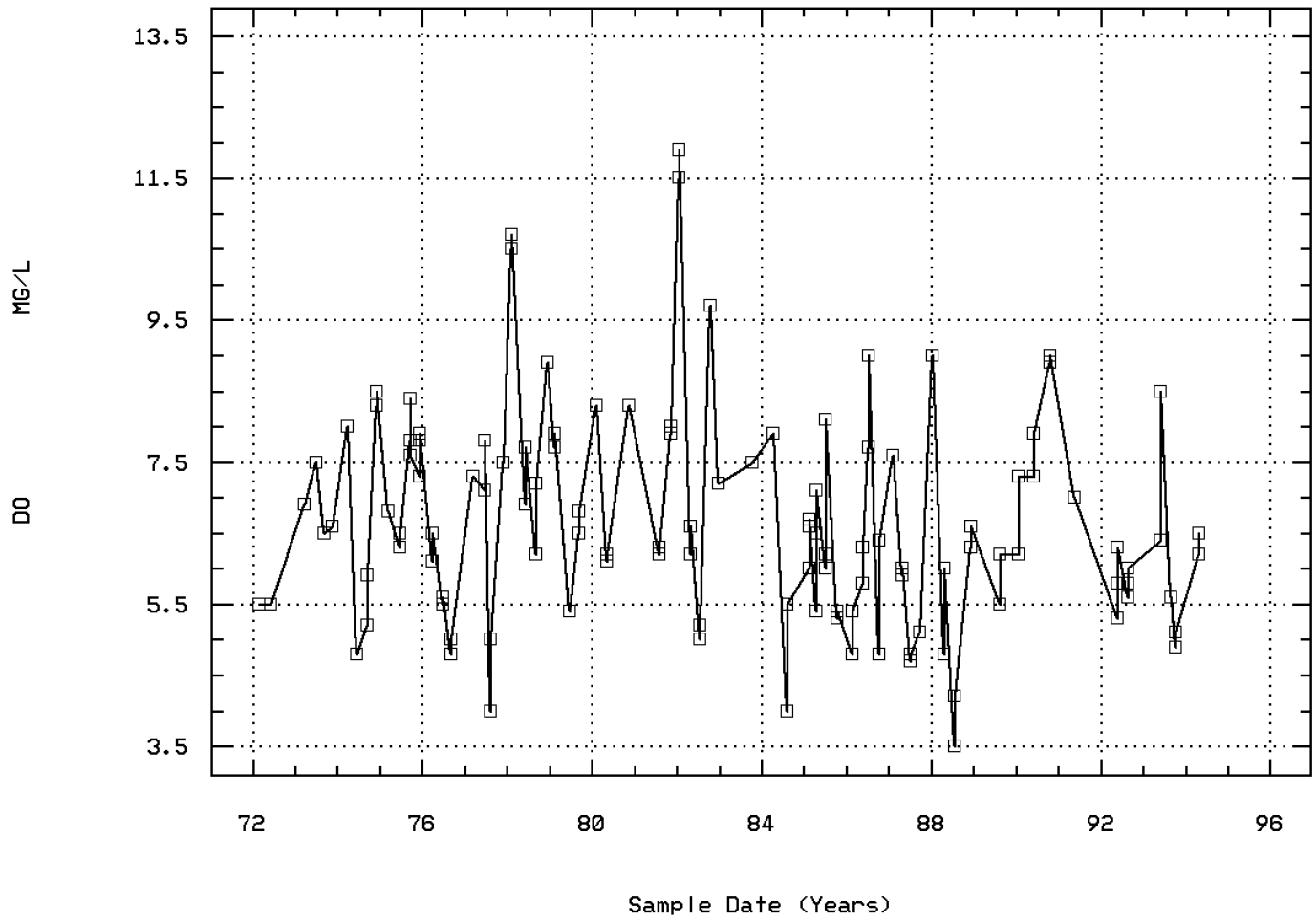
SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @



LAGUNA MADRE CHANNEL MARKER C-225A NORT

Station: PAIS0044 Parameter Code: 00300

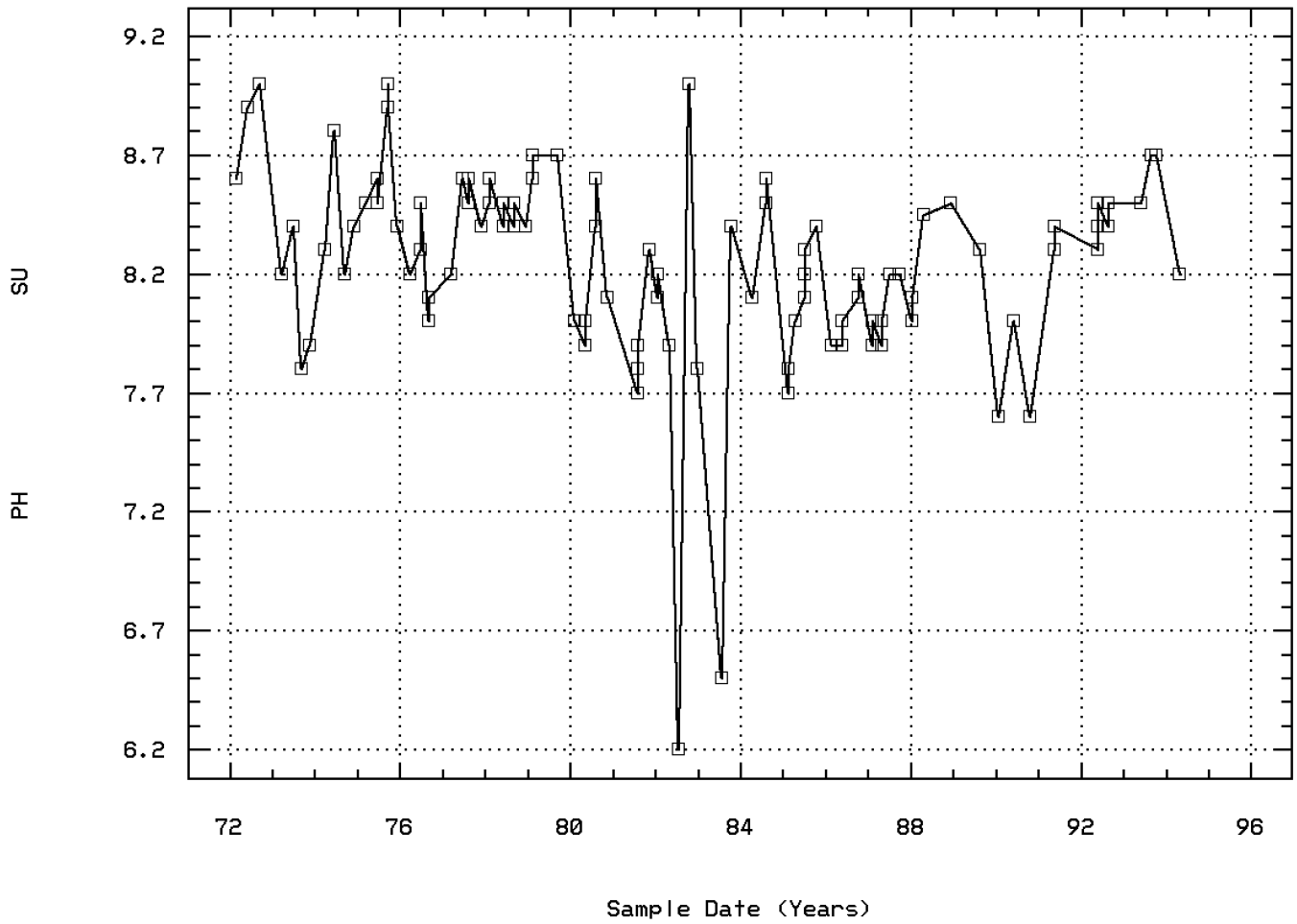
OXYGEN, DISSOLVED



LAGUNA MADRE CHANNEL MARKER C-225A NORT

Station: PAIS0044 Parameter Code: 00400

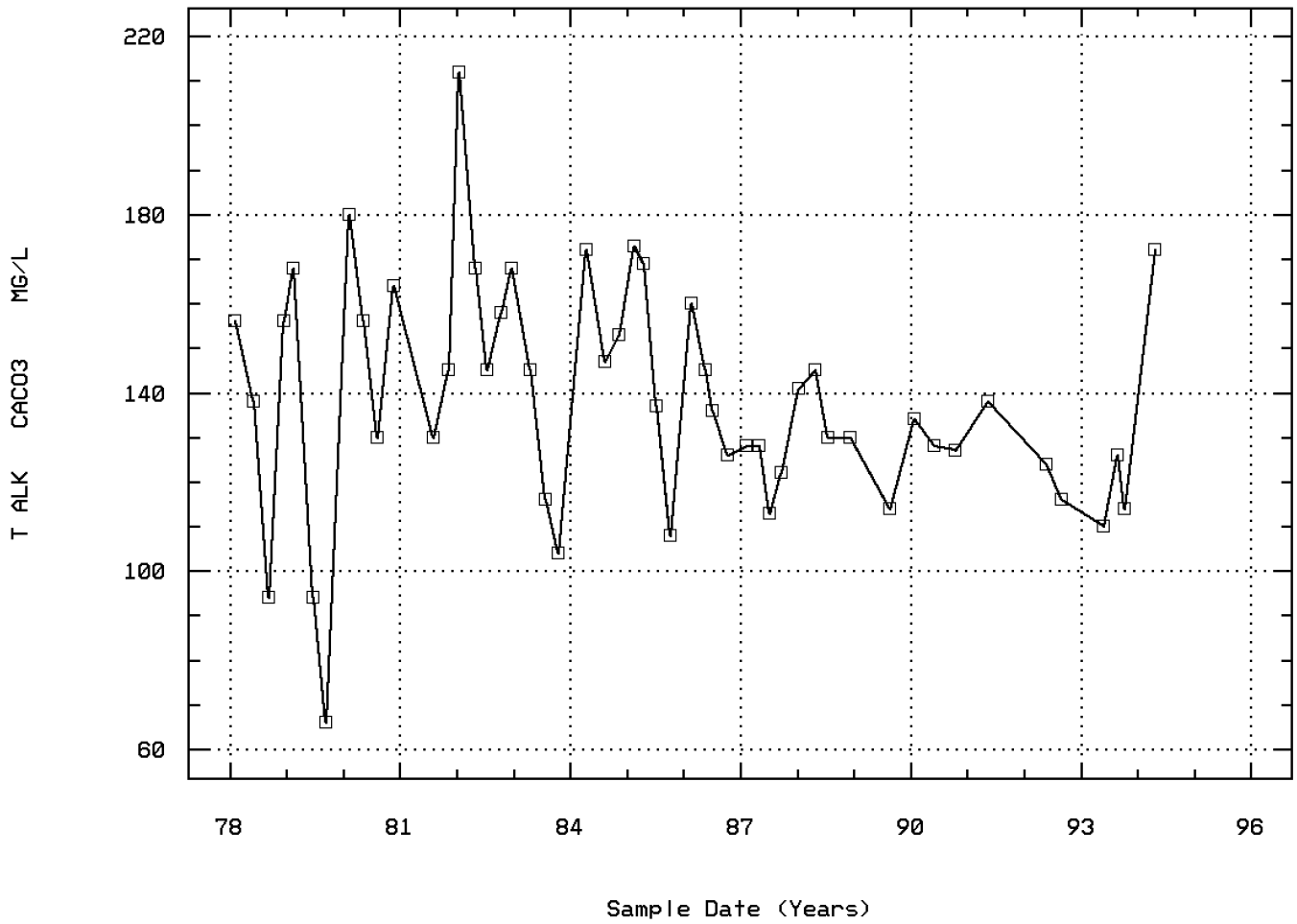
PH (STANDARD UNITS)



LAGUNA MADRE CHANNEL MARKER C-225A NORT

Station: PAIS0044 Parameter Code: 00410

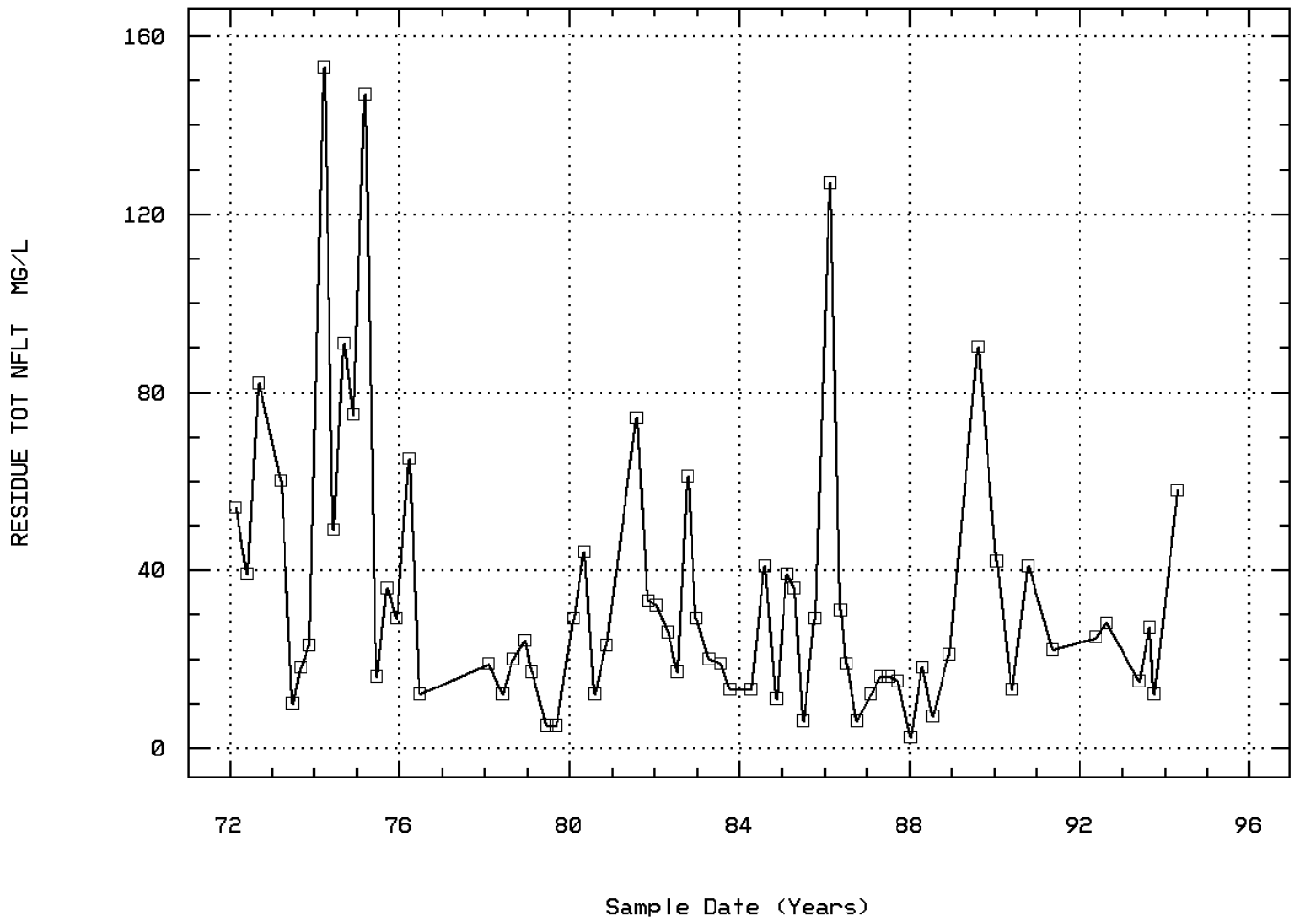
ALKALINITY, TOTAL (MG/L AS CACO3)



LAGUNA MADRE CHANNEL MARKER C-225A NORT

Station: PAIS0044 Parameter Code: 00530

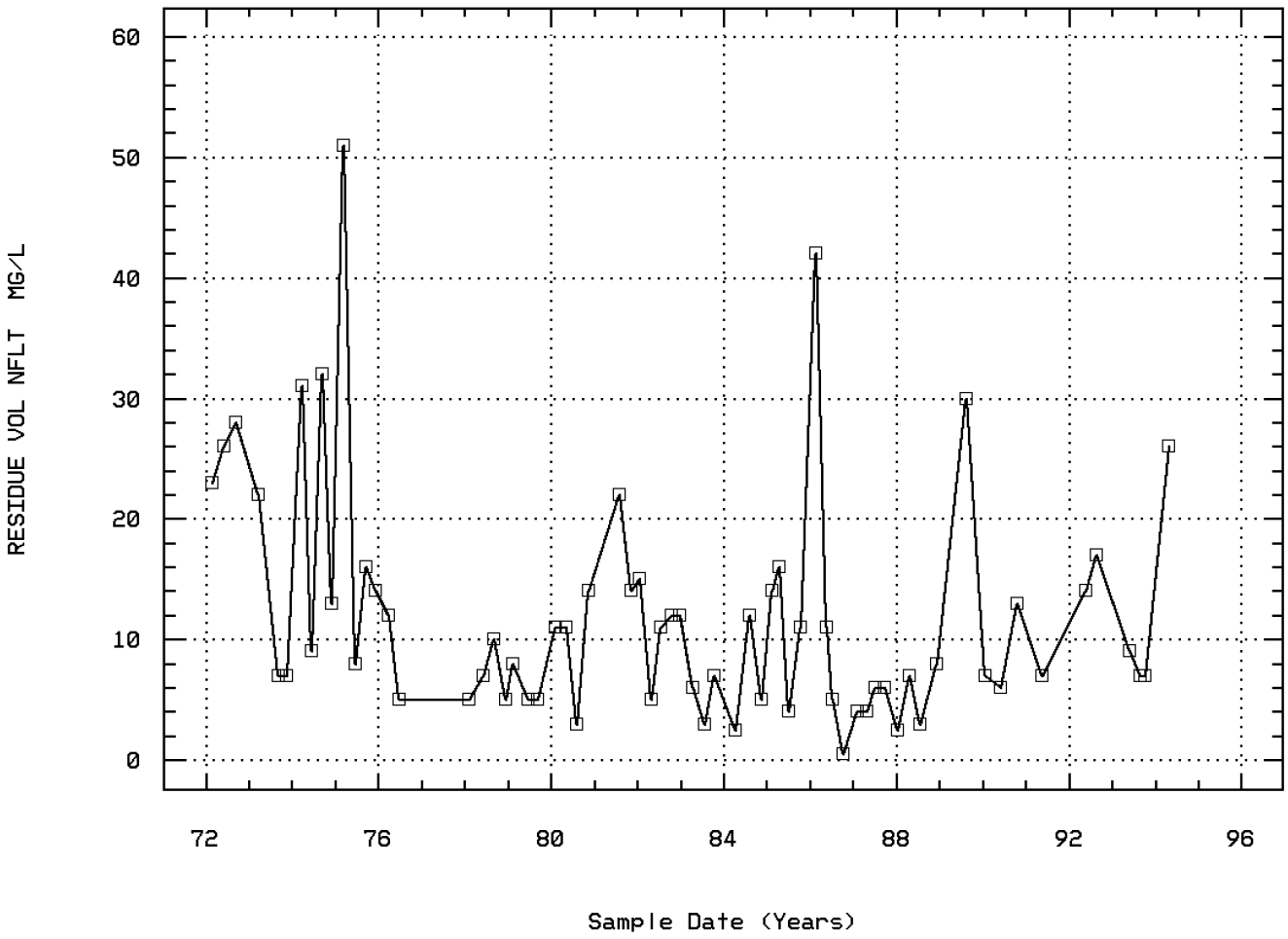
RESIDUE, TOTAL NONFILTRABLE (MG/L)



LAGUNA MADRE CHANNEL MARKER C-225A NORT

Station: PAIS0044 Parameter Code: 00535

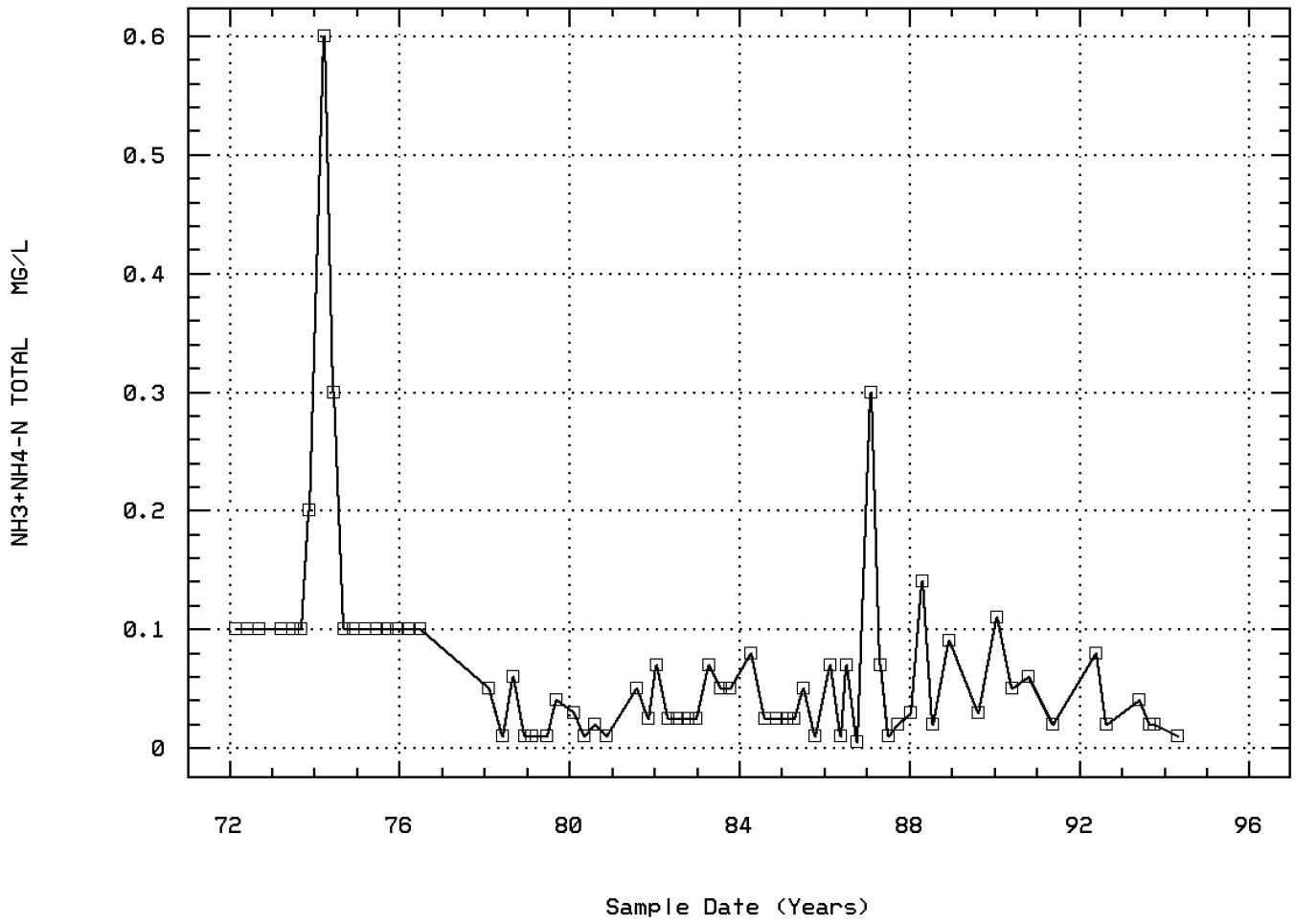
RESIDUE, VOLATILE NONFILTRABLE (MG/L)



LAGUNA MADRE CHANNEL MARKER C-225A NORT

Station: PAIS0044 Parameter Code: 00610

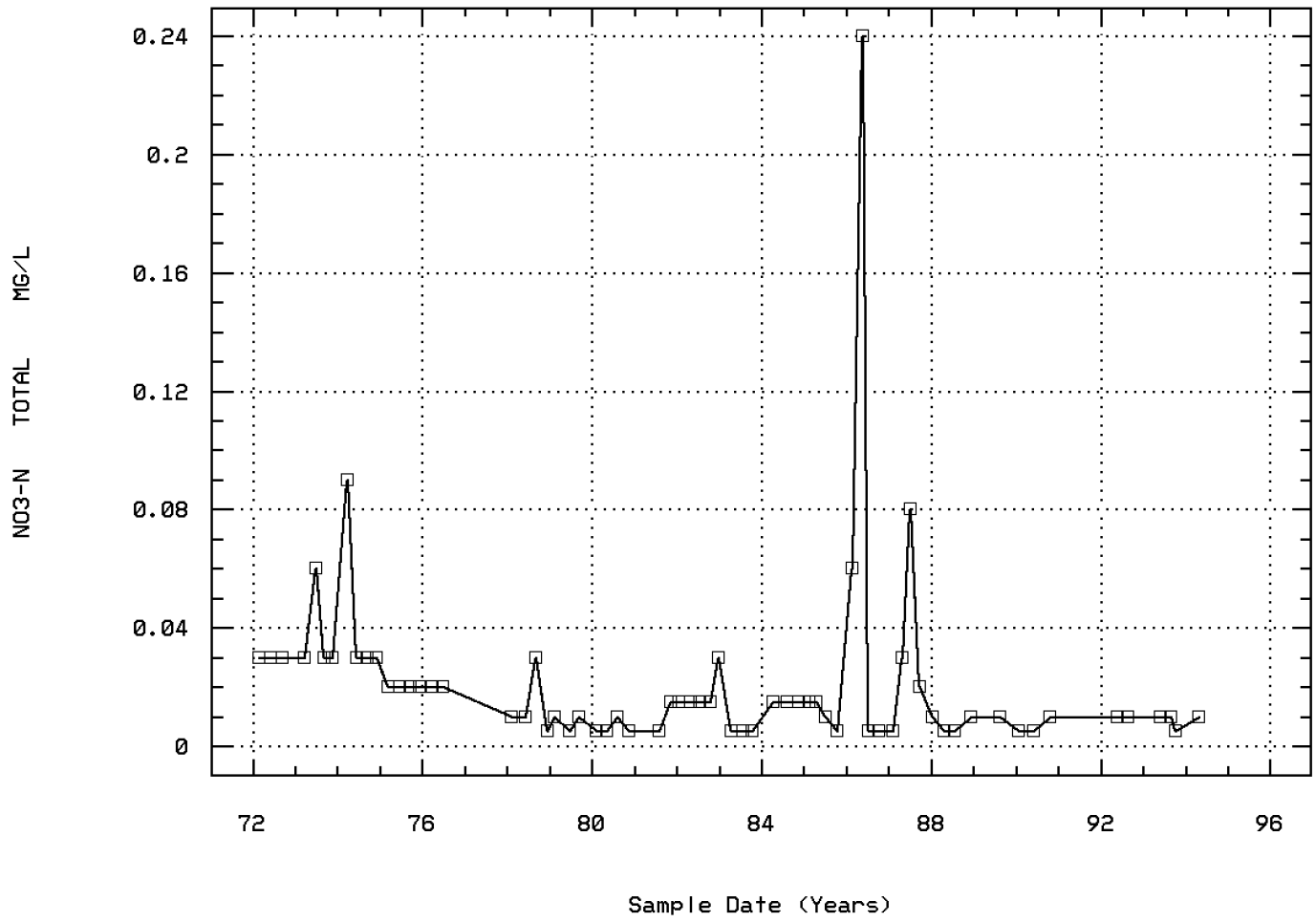
NITROGEN, AMMONIA, TOTAL (MG/L AS N)



LAGUNA MADRE CHANNEL MARKER C-225A NORT

Station: PAIS0044 Parameter Code: 00620

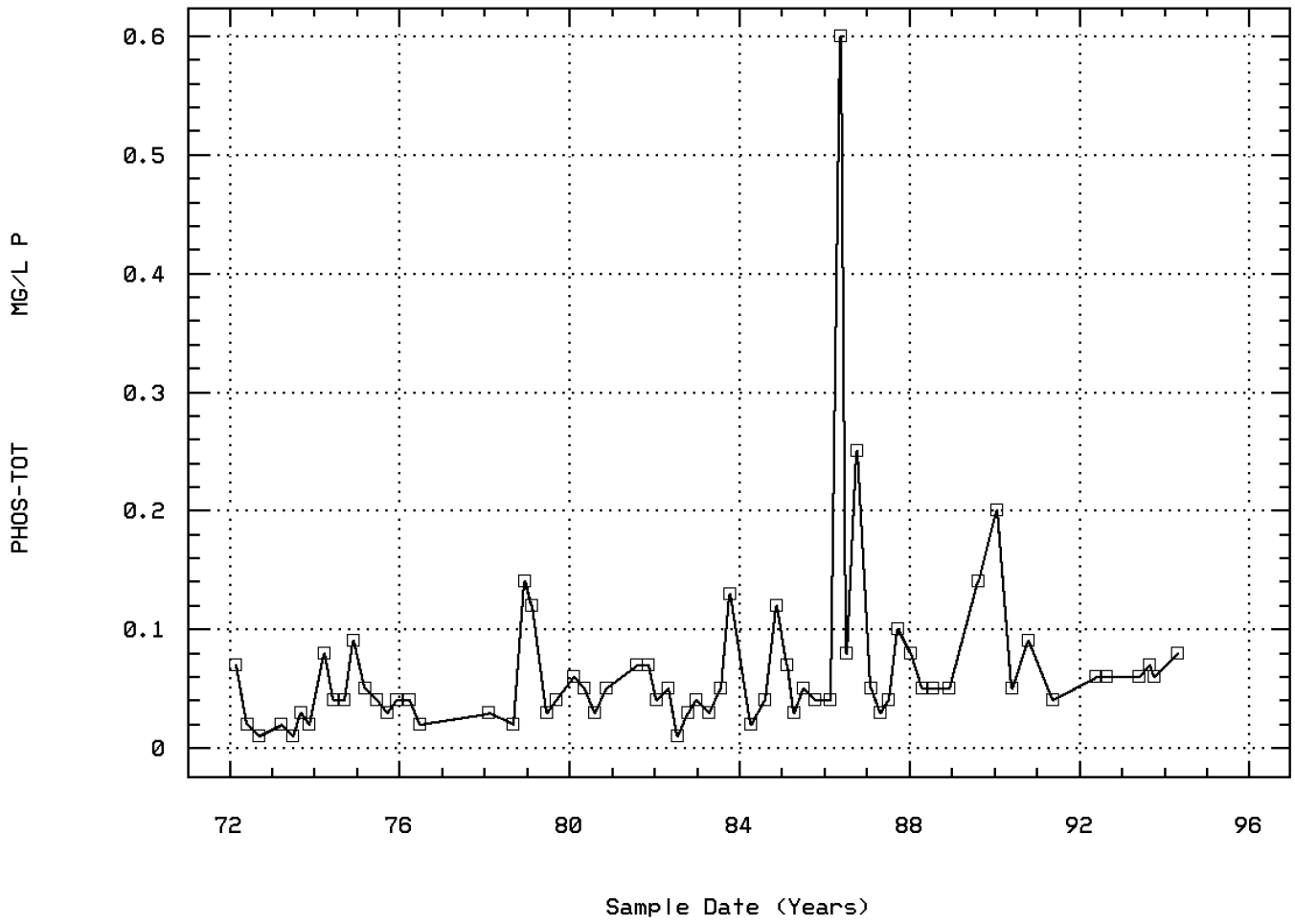
NITRATE NITROGEN, TOTAL (MG/L AS N)



LAGUNA MADRE CHANNEL MARKER C-225A NORT

Station: PAIS0044 Parameter Code: 00665

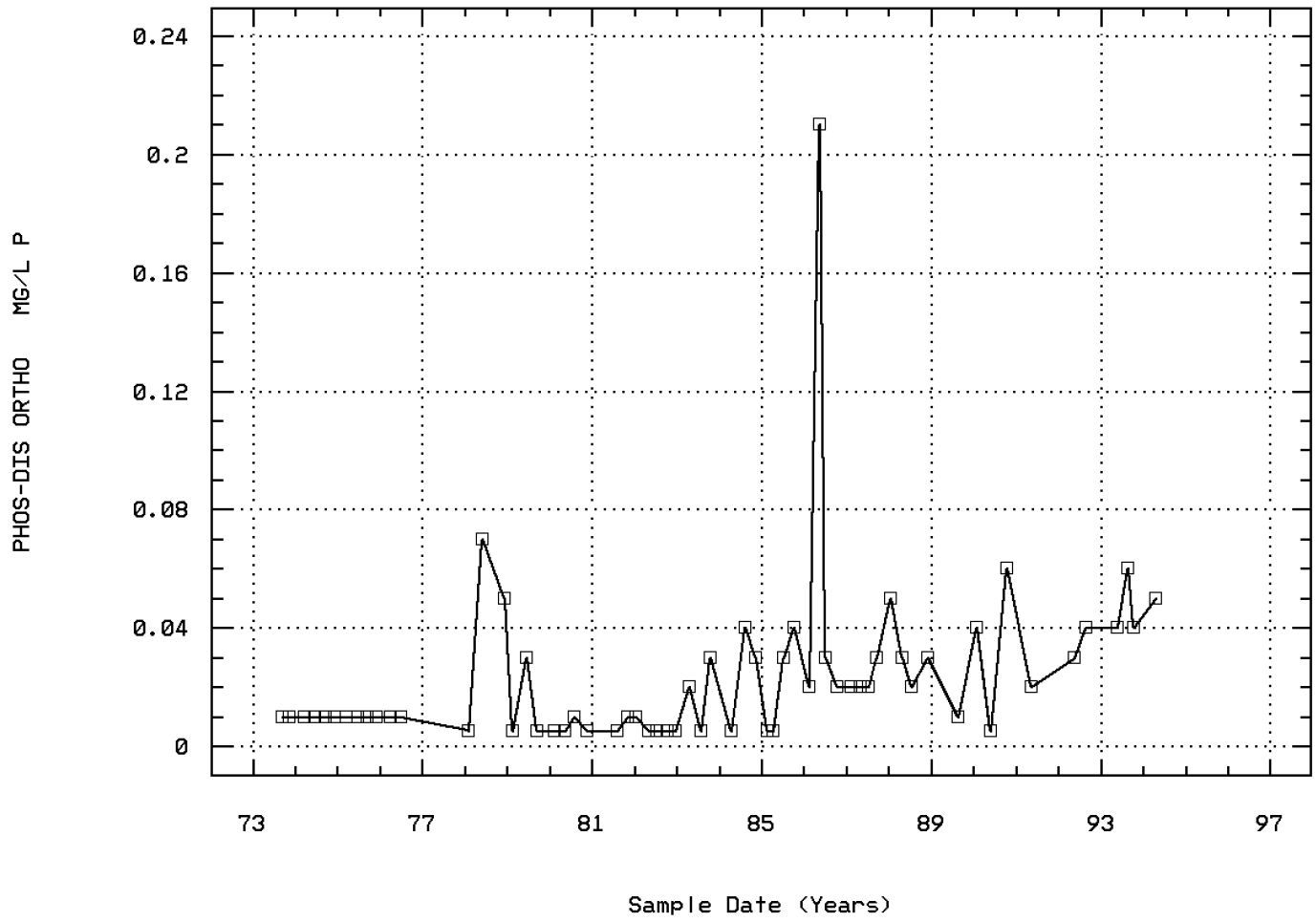
PHOSPHORUS, TOTAL (MG/L AS P)



LAGUNA MADRE CHANNEL MARKER C-225A NORT

Station: PAIS0044 Parameter Code: 00671

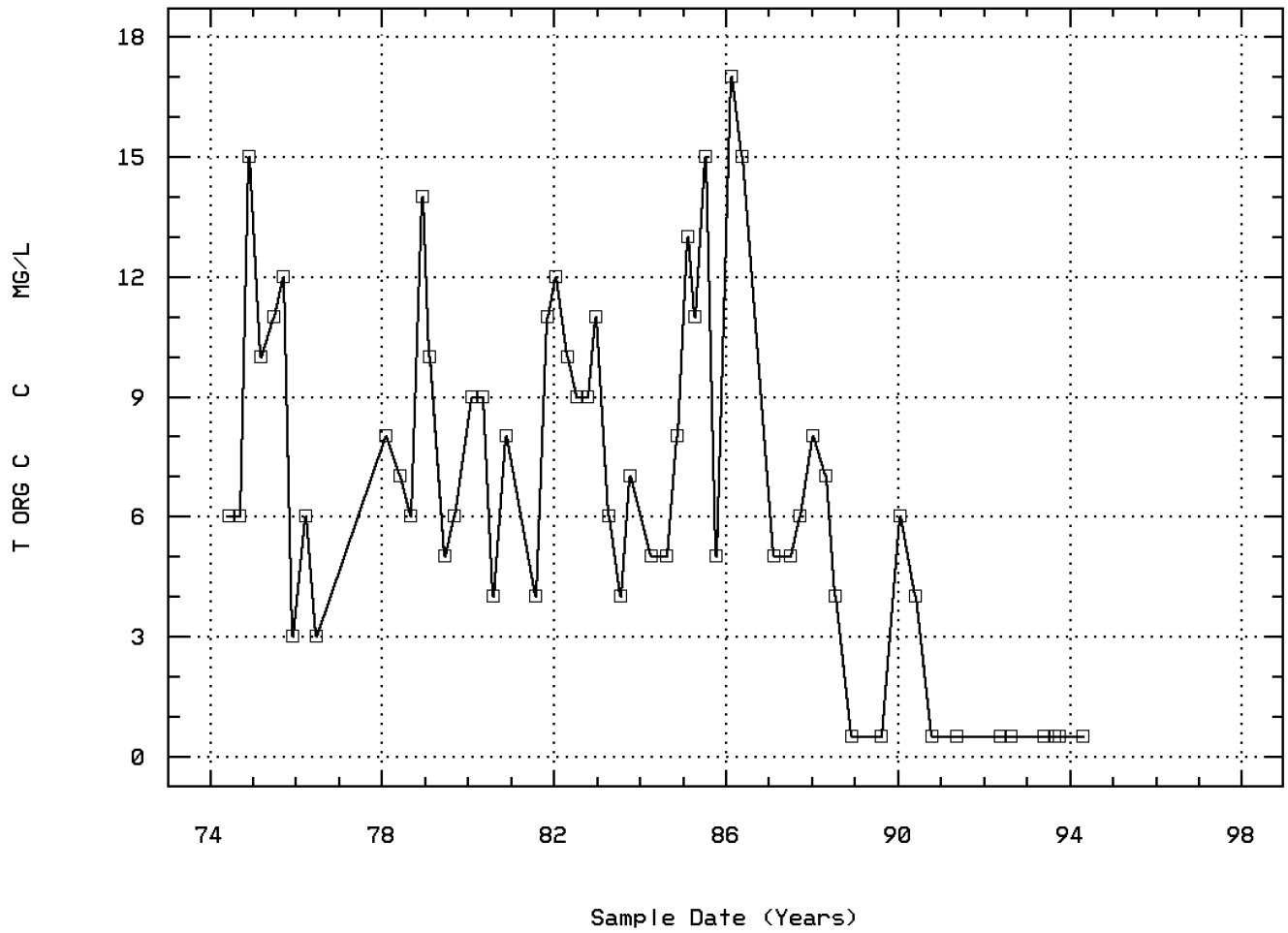
PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (M



LAGUNA MADRE CHANNEL MARKER C-225A NORT

Station: PAIS0044 Parameter Code: 00680

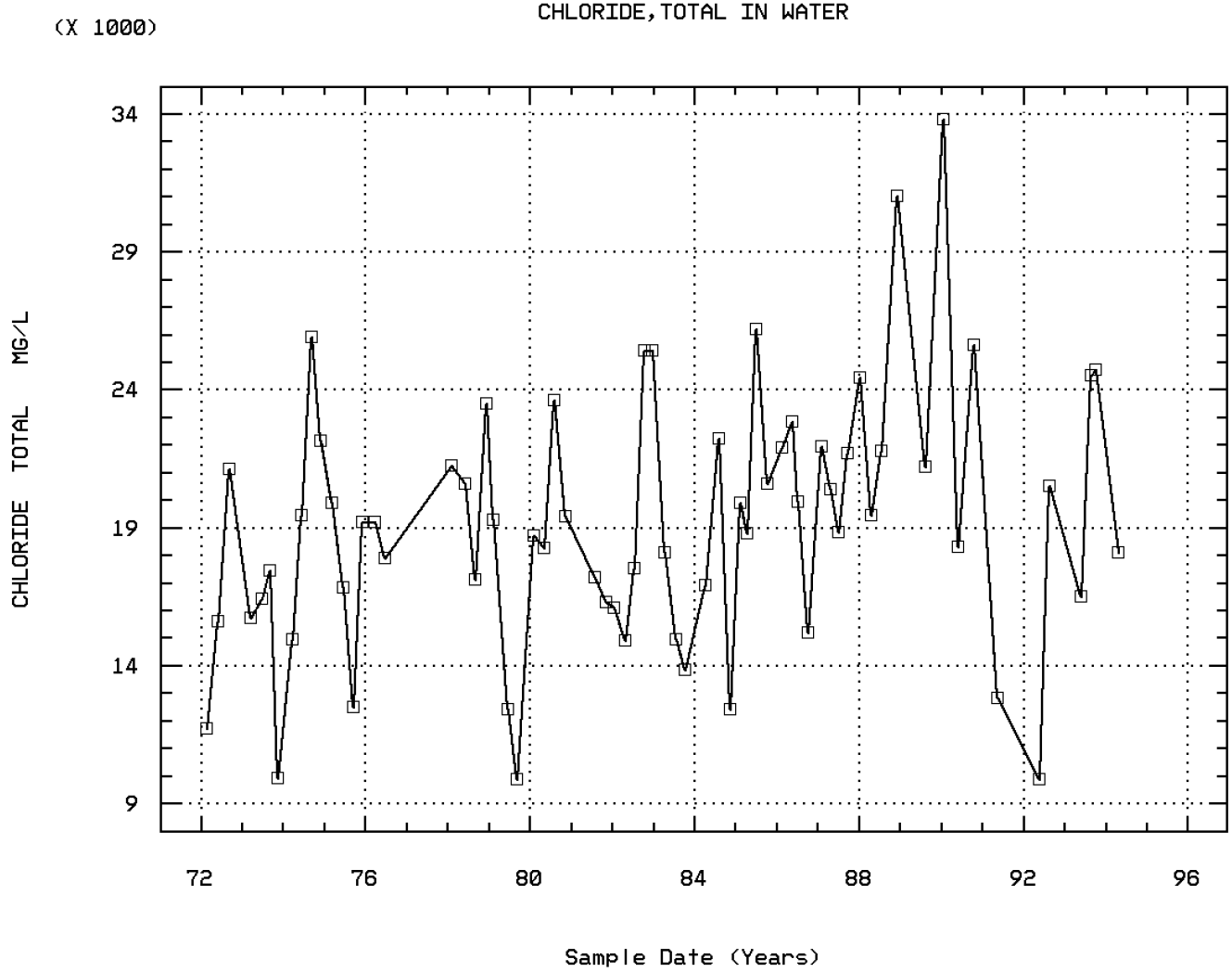
CARBON, TOTAL ORGANIC (MG/L AS C)



LAGUNA MADRE CHANNEL MARKER C-225A NORT

Station: PAIS0044 Parameter Code: 00940

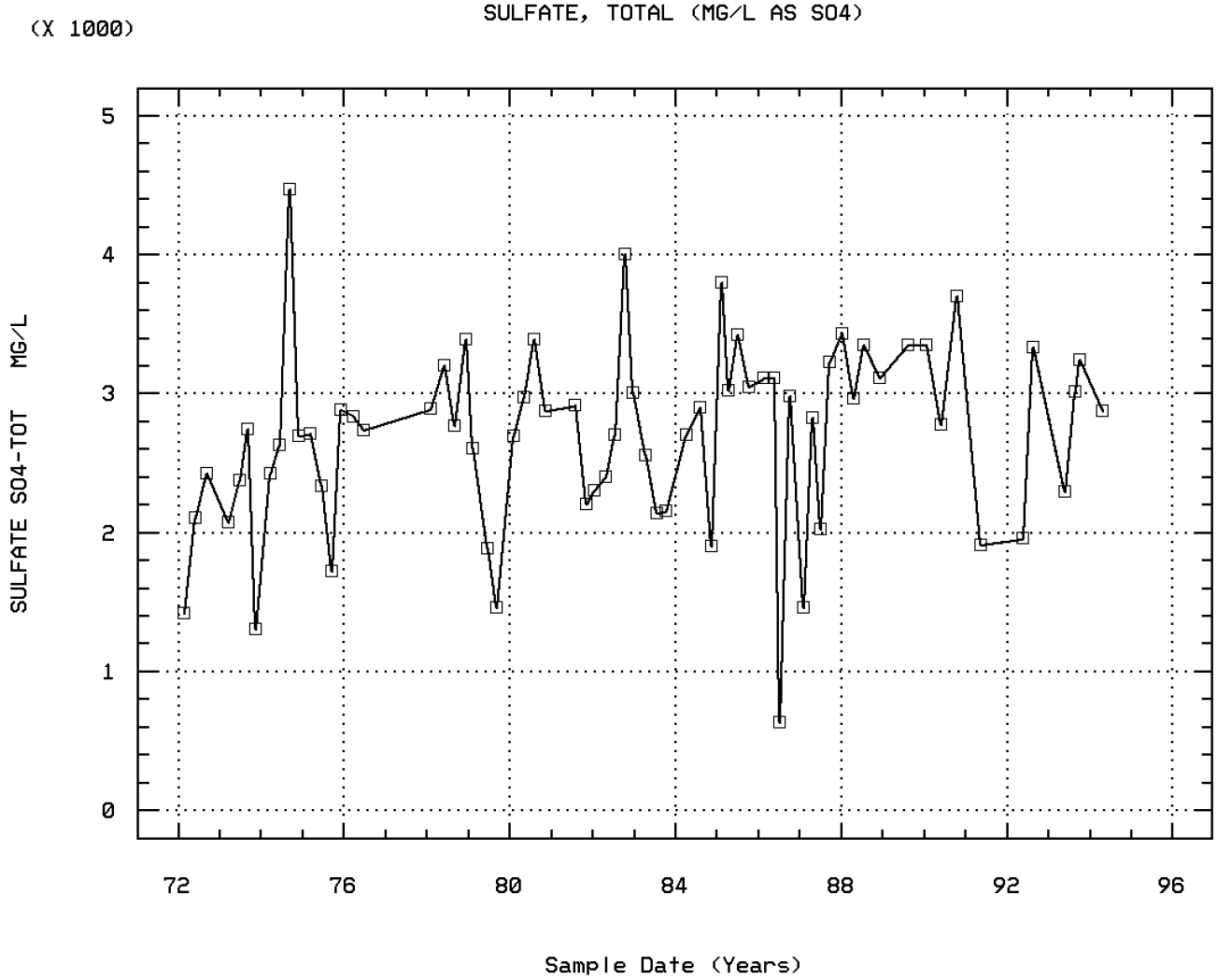
CHLORIDE,TOTAL IN WATER



LAGUNA MADRE CHANNEL MARKER C-225A NORT

Station: PAIS0044 Parameter Code: 00945

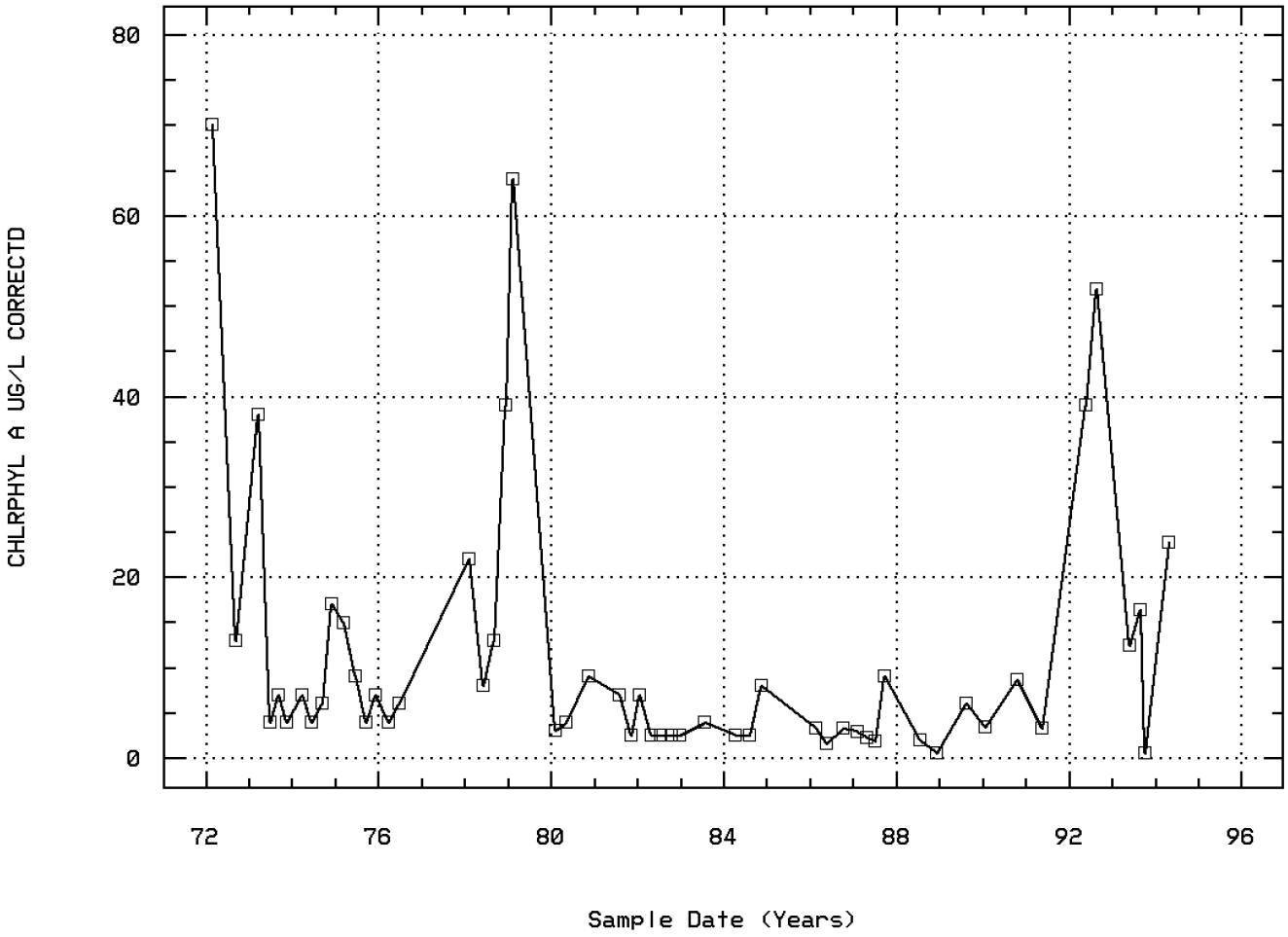
SULFATE, TOTAL (MG/L AS SO4)



LAGUNA MADRE CHANNEL MARKER C-225A NORT

Station: PAIS0044 Parameter Code: 32211

CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC A



LAGUNA MADRE CHANNEL MARKER C-225A NORT

Annual Analysis for 1972 - Station PAIS0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/23/72-04/21/94	3	1.	1.	1.	1.	0.	0.	**	**	**	**
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	09/13/72-04/21/94	1	55000.	55000.	55000.	55000.	0.	0.	**	**	**	**
00400p	PH (STANDARD UNITS)	02/23/72-04/21/94	3	8.9	8.833	9.	8.6	0.043	0.208	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	02/23/72-04/21/94	3	8.9	8.799	9.	8.6	0.045	0.212	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/23/72-04/21/94	3	0.001	0.002	0.003	0.001	0.	0.001	**	**	**	**

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

Annual Analysis for 1973 - Station PAIS0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/23/72-04/21/94	4	1.	1.	1.	1.	0.	0.	**	**	**	**
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	09/13/72-04/21/94	4	32000.	104125.	340000.	12500.	24822729166.667	157552.306	**	**	**	**
00400p	PH (STANDARD UNITS)	02/23/72-04/21/94	4	8.05	8.075	8.4	7.8	0.076	0.275	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	02/23/72-04/21/94	4	8.025	8.014	8.4	7.8	0.081	0.284	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/23/72-04/21/94	4	0.009	0.01	0.016	0.004	0.	0.005	**	**	**	**

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

Annual Analysis for 1974 - Station PAIS0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/23/72-04/21/94	8	3.	4.25	10.	1.	15.643	3.955	**	**	**	**
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	09/13/72-04/21/94	6	60850.	57866.667	65000.	40500.	85878666.667	9267.074	**	**	**	**
00400p	PH (STANDARD UNITS)	02/23/72-04/21/94	5	8.4	8.42	8.8	8.2	0.052	0.228	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	02/23/72-04/21/94	5	8.4	8.379	8.8	8.2	0.054	0.232	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/23/72-04/21/94	5	0.004	0.004	0.006	0.002	0.	0.002	**	**	**	**

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

Annual Analysis for 1975 - Station PAIS0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/23/72-04/21/94	14	5.	6.714	15.	1.	24.835	4.983	1.	1.	10.	15.
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	09/13/72-04/21/94	9	46000.	46588.889	56000.	35500.	61866111.111	7865.501	35500.	38100.	54300.	56000.
00400p	PH (STANDARD UNITS)	02/23/72-04/21/94	9	8.5	8.633	9.	8.4	0.055	0.235	8.4	8.45	8.9	9.
00400p	CONVERTED PH (STANDARD UNITS)	02/23/72-04/21/94	9	8.5	8.584	9.	8.4	0.058	0.24	8.4	8.45	8.9	9.
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/23/72-04/21/94	9	0.003	0.003	0.004	0.001	0.	0.001	0.001	0.001	0.004	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 box-and-whisker plot

Annual Analysis for 1976 - Station PAIS0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/23/72-04/21/94	12	7.5	7.75	15.	1.	30.205	5.496	1.	2.	13.75	15.
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	09/13/72-04/21/94	7	52000.	49428.571	53000.	42500.	21452380.952	4631.672	**	**	**	**
00400p	PH (STANDARD UNITS)	02/23/72-04/21/94	7	8.2	8.257	8.5	8.	0.036	0.19	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	02/23/72-04/21/94	7	8.2	8.223	8.5	8.	0.038	0.194	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/23/72-04/21/94	7	0.006	0.006	0.01	0.003	0.	0.002	**	**	**	**

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

Annual Analysis for 1977 - Station PAIS0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/23/72-04/21/94	14	5.	6.571	15.	1.	23.187	4.815	1.	1.	10.	14.5
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	09/13/72-04/21/94	9	48500.	47755.556	59000.	32000.	100637777.778	10031.838	32000.	39250.	57150.	59000.
00400p	PH (STANDARD UNITS)	02/23/72-04/21/94	9	8.5	8.444	8.6	8.2	0.025	0.159	8.2	8.3	8.6	8.6
00400p	CONVERTED PH (STANDARD UNITS)	02/23/72-04/21/94	9	8.5	8.417	8.6	8.2	0.026	0.162	8.2	8.3	8.6	8.6
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/23/72-04/21/94	9	0.003	0.004	0.006	0.003	0.	0.002	0.003	0.003	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 box-and-whisker plot

Annual Analysis for 1978 - Station PAIS0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/23/72-04/21/94	15	5.	7.133	15.	1.	27.124	5.208	1.	1.	10.	15.
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	09/13/72-04/21/94	10	52750.	52570.	59000.	45000.	27571222.222	5250.831	45120.	47925.	58250.	59000.
00400p	PH (STANDARD UNITS)	02/23/72-04/21/94	8	8.45	8.463	8.6	8.4	0.006	0.074	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	02/23/72-04/21/94	8	8.447	8.457	8.6	8.4	0.006	0.075	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/23/72-04/21/94	8	0.004	0.003	0.004	0.003	0.	0.001	**	**	**	**

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

Annual Analysis for 1979 - Station PAIS0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/23/72-04/21/94	12	7.5	7.75	15.	1.	30.205	5.496	1.	2.	13.75	15.
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	09/13/72-04/21/94	8	34000.	38900.	52000.	27000.	123922857.143	11132.064	**	**	**	**
00400p	PH (STANDARD UNITS)	02/23/72-04/21/94	5	8.7	8.68	8.7	8.6	0.002	0.045	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	02/23/72-04/21/94	5	8.7	8.678	8.7	8.6	0.002	0.045	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/23/72-04/21/94	5	0.002	0.002	0.003	0.002	0.	0.	**	**	**	**

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

Annual Analysis for 1980 - Station PAIS0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/23/72-04/21/94	9	5.	5.444	15.	1.	26.528	5.151	1.	1.	10.	15.
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	09/13/72-04/21/94	7	50500.	53800.	63000.	49800.	33733333.333	5808.04	**	**	**	**
00400p	PH (STANDARD UNITS)	02/23/72-04/21/94	6	8.05	8.167	8.6	7.9	0.075	0.273	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	02/23/72-04/21/94	6	8.047	8.106	8.6	7.9	0.079	0.281	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/23/72-04/21/94	6	0.009	0.008	0.013	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 box-and-whisker plot

Annual Analysis for 1981 - Station PAIS0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/23/72-04/21/94	8	7.5	7.75	15.	1.	31.643	5.625	**	**	**	**
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	09/13/72-04/21/94	4	47750.	48125.	51000.	46000.	5395833.333	2322.893	**	**	**	**
00400p	PH (STANDARD UNITS)	02/23/72-04/21/94	6	8.1	8.05	8.3	7.7	0.079	0.281	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	02/23/72-04/21/94	6	8.055	7.976	8.3	7.7	0.086	0.293	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/23/72-04/21/94	6	0.009	0.011	0.02	0.005	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 1982 - Station PAIS0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/23/72-04/21/94	14	5.	6.643	15.	1.	29.17	5.401	1.	1.	11.	14.5
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	09/13/72-04/21/94	8	45750.	48125.	67300.	39300.	85025000.	9220.9	**	**	**	**
00400p	PH (STANDARD UNITS)	02/23/72-04/21/94	9	7.9	7.911	9.	6.2	0.541	0.736	6.2	7.85	8.2	9.
00400p	CONVERTED PH (STANDARD UNITS)	02/23/72-04/21/94	9	7.9	7.105	9.	6.2	1.272	1.128	6.2	7.85	8.2	9.
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/23/72-04/21/94	9	0.013	0.078	0.631	0.001	0.043	0.207	0.001	0.006	0.014	0.631

** - 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 1983 - Station PAIS0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/23/72-04/21/94	3	1.	1.	1.	1.	0.	0.	**	**	**	**
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	09/13/72-04/21/94	2	30100.	30100.	34700.	25500.	42320000.	6505.382	**	**	**	**
00400p	PH (STANDARD UNITS)	02/23/72-04/21/94	2	7.45	7.45	8.4	6.5	1.805	1.344	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	02/23/72-04/21/94	2	6.796	6.796	8.4	6.5	2.661	1.631	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/23/72-04/21/94	2	0.16	0.16	0.316	0.004	0.049	0.221	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 PAIS0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/23/72-04/21/94	6	3.	5.5	15.	1.	34.3	5.857	**	**	**	**
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	09/13/72-04/21/94	4	51550.	49050.	52400.	40700.	31230000.	5588.381	**	**	**	**
00400p	PH (STANDARD UNITS)	02/23/72-04/21/94	3	8.5	8.4	8.6	8.1	0.07	0.265	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	02/23/72-04/21/94	3	8.5	8.343	8.6	8.1	0.075	0.274	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/23/72-04/21/94	3	0.003	0.005	0.008	0.003	0.	0.003	**	**	**	**

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

Annual Analysis for 1985 - Station PAIS0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/23/72-04/21/94	16	7.5	7.75	15.	1.	29.533	5.434	1.	2.	13.75	15.
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	09/13/72-04/21/94	12	52400.	52333.333	56500.	48500.	8118787.879	2849.349	48560.	49525.	54925.	56440.
00400p	PH (STANDARD UNITS)	02/23/72-04/21/94	10	8.15	8.13	8.4	7.7	0.065	0.254	7.71	7.95	8.4	8.4
00400p	CONVERTED PH (STANDARD UNITS)	02/23/72-04/21/94	10	8.147	8.06	8.4	7.7	0.07	0.264	7.71	7.95	8.4	8.4
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/23/72-04/21/94	10	0.007	0.009	0.02	0.004	0.	0.005	0.004	0.004	0.011	0.02

** - Less than 9 observations ## - Computed with 50% or 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 PAIS0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/23/72-04/21/94	16	7.5	7.75	15.	1.	29.533	5.434	1.	2.	13.75	15.
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	09/13/72-04/21/94	12	58350.	57641.667	63400.	50600.	20157196.97	4489.677	50660.	53250.	61800.	63340.
00400p	PH (STANDARD UNITS)	02/23/72-04/21/94	6	7.95	8.	8.2	7.9	0.016	0.126	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	02/23/72-04/21/94	6	7.947	7.986	8.2	7.9	0.016	0.127	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/23/72-04/21/94	6	0.011	0.01	0.013	0.006	0.	0.003	**	**	**	**

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

Annual Analysis for 1987 - Station PAIS0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/23/72-04/21/94	12	5.	6.	13.	1.	19.636	4.431	1.	1.	10.	12.1
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	09/13/72-04/21/94	9	50400.	49188.889	56400.	42900.	26523611.111	5150.108	42900.	43550.	53450.	56400.
00400p	PH (STANDARD UNITS)	02/23/72-04/21/94	8	8.1	8.075	8.2	7.9	0.019	0.139	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	02/23/72-04/21/94	8	8.089	8.055	8.2	7.9	0.02	0.14	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/23/72-04/21/94	8	0.008	0.009	0.013	0.006	0.	0.003	**	**	**	**

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

Annual Analysis for 1988 - Station PAIS0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/23/72-04/21/94	12	5.	5.333	10.	1.	14.788	3.846	1.	1.	10.	10.
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	09/13/72-04/21/94	8	63050.	61237.5	65200.	53700.	22094107.143	4700.437	**	**	**	**
00400p	PH (STANDARD UNITS)	02/23/72-04/21/94	6	8.45	8.333	8.5	8.	0.05	0.223	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	02/23/72-04/21/94	6	8.45	8.282	8.5	8.	0.053	0.23	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/23/72-04/21/94	6	0.004	0.005	0.01	0.003	0.	0.003	**	**	**	**

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

Annual Analysis for 1989 - Station PAIS0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/23/72-04/21/94	3	5.	5.333	10.	1.	20.333	4.509	**	**	**	**
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	09/13/72-04/21/94	2	59250.	59250.	59300.	59200.	5000.	70.711	**	**	**	**
00400p	PH (STANDARD UNITS)	02/23/72-04/21/94	2	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	02/23/72-04/21/94	2	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/23/72-04/21/94	2	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**

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

Annual Analysis for 1990 - Station PAIS0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/23/72-04/21/94	10	5.	6.2	14.	1.	21.067	4.59	1.	1.	10.	13.6
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	09/13/72-04/21/94	7	65600.	62185.714	70200.	49500.	77064761.905	8778.654	**	**	**	**
00400p	PH (STANDARD UNITS)	02/23/72-04/21/94	6	7.6	7.733	8.	7.6	0.043	0.207	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	02/23/72-04/21/94	6	7.6	7.697	8.	7.6	0.044	0.21	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/23/72-04/21/94	6	0.025	0.02	0.025	0.01	0.	0.008	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 PAIS0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/23/72-04/21/94	3	5.	5.333	10.	1.	20.333	4.509	**	**	**	**
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	09/13/72-04/21/94	2	38700.	38700.	38700.	38700.	0.	0.	**	**	**	**
00400p	PH (STANDARD UNITS)	02/23/72-04/21/94	2	8.35	8.35	8.4	8.3	0.005	0.071	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	02/23/72-04/21/94	2	8.347	8.347	8.4	8.3	0.005	0.071	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/23/72-04/21/94	2	0.004	0.004	0.005	0.004	0.	0.001	**	**	**	**

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

Annual Analysis for 1992 - Station PAIS0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/23/72-04/21/94	6	5.	5.333	10.	1.	16.267	4.033	**	**	**	**
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	09/13/72-04/21/94	6	46850.	46050.	55500.	34400.	103851000.	10190.731	**	**	**	**
00400p	PH (STANDARD UNITS)	02/23/72-04/21/94	6	8.45	8.433	8.5	8.3	0.007	0.082	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	02/23/72-04/21/94	6	8.447	8.427	8.5	8.3	0.007	0.082	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/23/72-04/21/94	6	0.004	0.004	0.005	0.003	0.	0.001	**	**	**	**

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

Annual Analysis for 1993 - Station PAIS0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/23/72-04/21/94	8	6.	6.25	15.	1.	27.071	5.203	**	**	**	**
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	09/13/72-04/21/94	6	51550.	49333.333	54600.	41900.	34454666.667	5869.81	**	**	**	**
00400p	PH (STANDARD UNITS)	02/23/72-04/21/94	6	8.7	8.633	8.7	8.5	0.011	0.103	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	02/23/72-04/21/94	6	8.7	8.623	8.7	8.5	0.011	0.104	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/23/72-04/21/94	6	0.002	0.002	0.003	0.002	0.	0.001	**	**	**	**

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

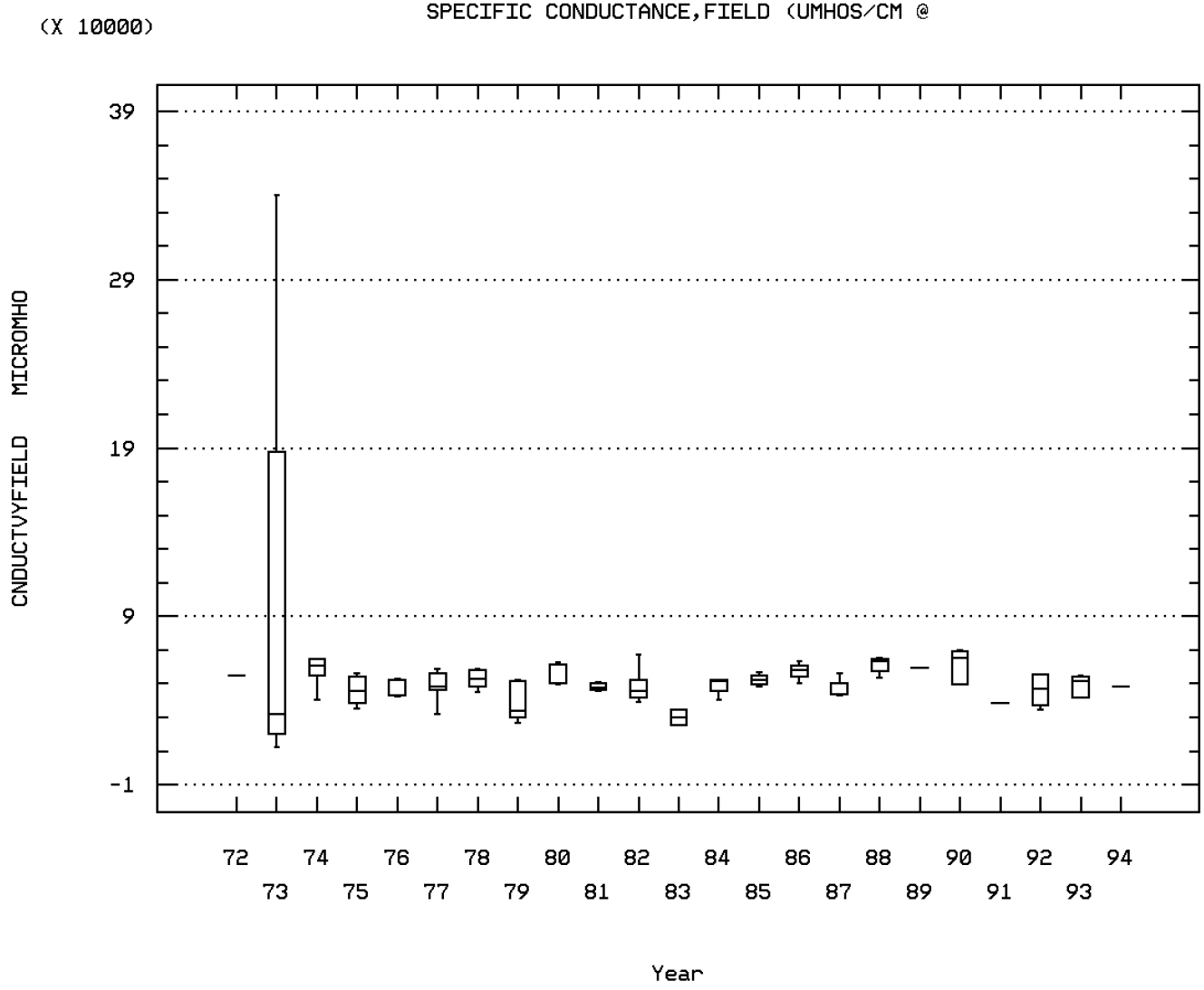
Annual Analysis for 1994 - Station PAIS0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/23/72-04/21/94	2	2.	2.	3.	1.	2.	1.414	**	**	**	**
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	09/13/72-04/21/94	2	48100.	48100.	48100.	48100.	0.	0.	**	**	**	**
00400p	PH (STANDARD UNITS)	02/23/72-04/21/94	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	02/23/72-04/21/94	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/23/72-04/21/94	1	0.006	0.006	0.006	0.006	0.	0.	**	**	**	**

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

Station: PAIS0044 Parameter Code: 00094

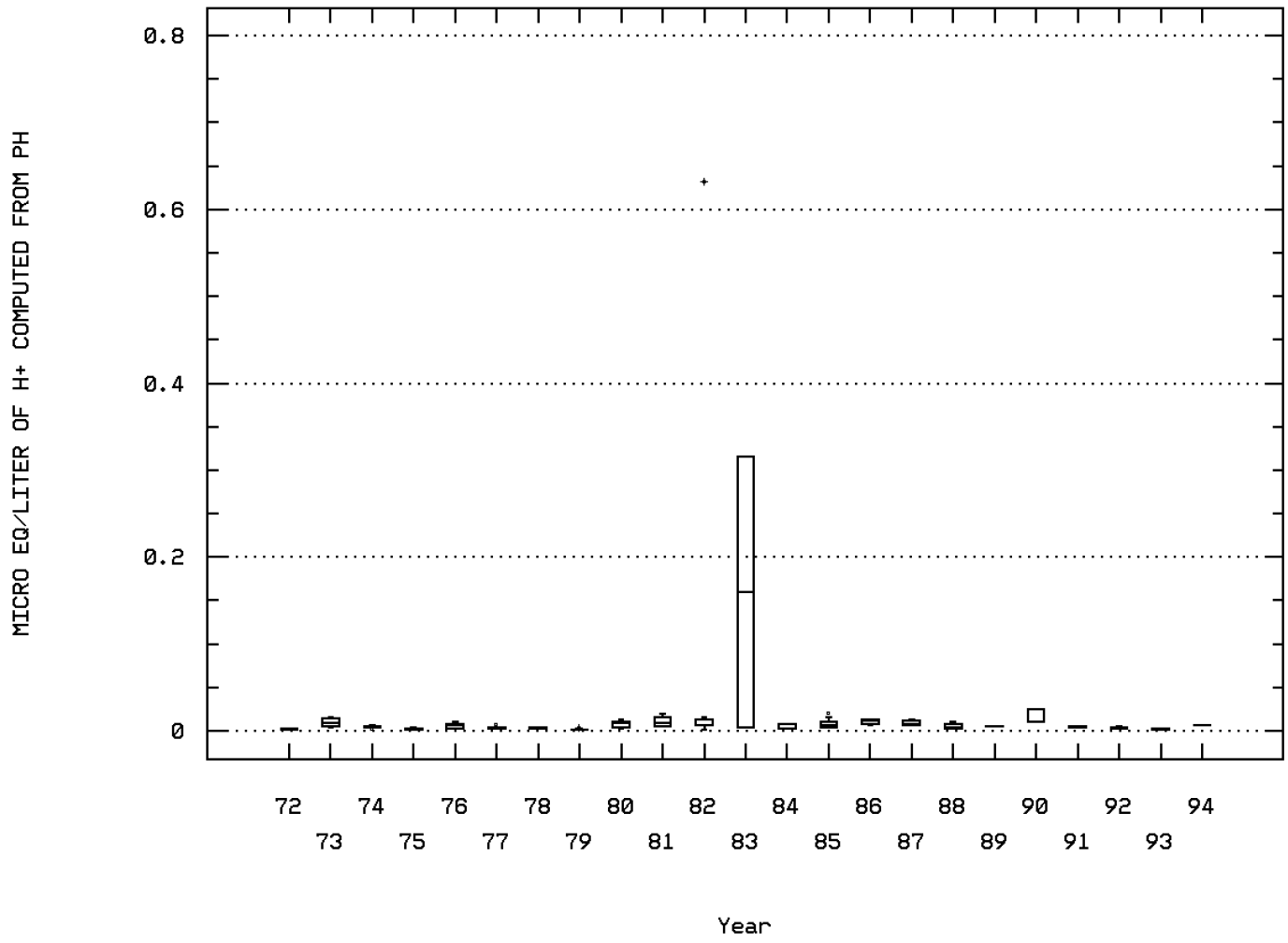
SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @



LAGUNA MADRE CHANNEL MARKER C-225A NORT

Station: PAIS0044 Parameter Code: 00400

MICRO EQ/LITER OF H+ COMPUTED FROM PH



LAGUNA MADRE CHANNEL MARKER C-225A NORT

Seasonal Analysis for Season #1: 5/01 to 10/31 - Station PAIS0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/23/72-04/21/94	127	5.	6.528	15.	1.	24.854	4.985	1.	1.	10.	15.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/23/72-04/21/94	77	27.9	27.416	30.3	20.6	3.659	1.913	24.5	25.95	28.8	29.34
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	02/23/72-10/09/85	46	82.5	81.82	86.5	69.1	12.961	3.6	77.24	81.	84.	85.37
00077	TRANSPARENCY, SECCHI DISC (INCHES)	12/04/75-12/06/88	18	36.	32.889	60.	6.	154.105	12.414	16.8	24.	38.5	52.8
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	09/13/72-04/21/94	88	50900.	49603.409	67300.	12500.	112906769.854	10625.76	34360.	42625.	56375.	63020.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/23/72-07/07/87	26	61152.	61337.	94080.	37800.	224818895.12	14993.962	40200.	48434.5	70098.	84459.2
00300p	OXYGEN, DISSOLVED MG/L	02/23/72-04/21/94	74	6.15	6.2	9.7	3.5	1.672	1.293	4.8	5.275	7.025	8.
00400p	PH (STANDARD UNITS)	02/23/72-04/21/94	78	8.4	8.308	9.	6.2	0.21	0.458	7.89	8.1	8.6	8.71
00400p	CONVERTED PH (STANDARD UNITS)	02/23/72-04/21/94	78	8.4	7.748	9.	6.2	0.528	0.727	7.89	8.1	8.6	8.71
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/23/72-04/21/94	78	0.004	0.018	0.631	0.001	0.006	0.079	0.002	0.003	0.008	0.013
00403	PH, LAB, STANDARD UNITS SU	02/23/72-07/07/87	26	8.5	8.423	8.9	7.6	0.103	0.322	7.97	8.2	8.625	8.83
00403	CONVERTED PH, LAB, STANDARD UNITS	02/23/72-07/07/87	26	8.5	8.292	8.9	7.6	0.121	0.348	7.97	8.2	8.625	8.83
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/23/72-07/07/87	26	0.003	0.005	0.025	0.001	0.	0.005	0.001	0.002	0.006	0.011
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	02/06/78-04/21/94	30	126.5	125.333	168.	66.	440.989	21.	95.	113.75	138.	155.1
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/23/72-04/21/94	39	19.	28.308	91.	5.	540.745	23.254	6.	12.	39.	74.
00535p	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	02/23/72-04/21/94	38	7.5	10.539	32.	0.5	60.14	7.755	3.	5.	12.25	26.2
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/23/72-04/21/94	39	0.04	0.052	0.3	0.005	0.003	0.053	0.01	0.02	0.08	0.1
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/23/72-04/21/94	38	0.01	0.023	0.24	0.005	0.002	0.039	0.005	0.005	0.023	0.033
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	02/23/72-10/09/85	23	0.12	0.118	0.4	0.03	0.006	0.076	0.04	0.07	0.15	0.194
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/11/73-10/09/85	20	0.03	0.053	0.21	0.015	0.003	0.052	0.015	0.015	0.09	0.12
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	02/23/72-04/21/94	38	0.045	0.069	0.6	0.01	0.01	0.099	0.019	0.03	0.063	0.131
00671p	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/11/73-04/21/94	35	0.02	0.028	0.21	0.005	0.001	0.036	0.005	0.01	0.04	0.06
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	06/19/74-04/21/94	33	5.	5.485	15.	0.5	16.695	4.086	0.5	1.75	8.	11.6
00940p	CHLORIDE,TOTAL IN WATER MG/L	02/23/72-04/21/94	39	18291.	18764.821	26188.	9880.	19245076.256	4386.921	12500.	15600.	21756.	25400.
00945p	SULFATE, TOTAL (MG/L AS SO4)	02/23/72-04/21/94	39	2770.	2710.667	4470.	632.	530229.281	728.168	1880.	2150.	3226.	3420.
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	03/17/75-08/05/81	11	0.	20.091	140.	0.	2011.091	44.845	0.	0.	5.	126.
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	03/17/75-08/05/81	11	0.	0.49	2.146	0.	0.635	0.797	0.	0.	0.699	2.086
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			3.09								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	03/17/75-04/21/94	22 ##	4.	3.977	5.	1.5	0.988	0.994	2.5	3.5	5.	5.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	03/17/75-04/21/94	22 ##	0.599	0.583	0.699	0.176	0.017	0.131	0.398	0.544	0.699	0.699
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			3.83								
32211p	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	02/23/72-04/21/94	35	4.	7.426	51.8	0.5	108.402	10.412	1.	2.	8.6	14.36
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	02/06/78-04/21/94	27	1.1	3.289	25.9	0.	38.884	6.236	0.	1.	2.5	10.74

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

Seasonal Analysis for Season #2: 11/01 to 4/30 - Station PAIS0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/23/72-04/21/94	83	5.	5.964	15.	1.	23.889	4.888	1.	1.	10.	15.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/23/72-04/21/94	50	18.95	18.052	25.	7.3	27.533	5.247	9.52	13.25	22.5	24.2
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	02/23/72-10/09/85	35	66.	63.649	77.	48.	81.703	9.039	49.34	54.9	70.5	74.04
00077	TRANSPARENCY, SECCHI DISC (INCHES)	12/04/75-12/06/88	17	30.	38.529	86.	18.	462.265	21.5	18.	25.	42.5	84.4
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	09/13/72-04/21/94	57	52000.	56984.211	340000.	32000.	1521703496.241	39009.018	42380.	47300.	57250.	64860.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/23/72-07/07/87	22	59792.	61266.091	90720.	34600.	287520978.848	16956.444	39145.8	44907.5	74928.	86520.
00300p	OXYGEN, DISSOLVED MG/L	02/23/72-04/21/94	50	7.3	7.372	11.9	4.8	2.346	1.532	5.54	6.275	8.	8.99
00400p	PH (STANDARD UNITS)	02/23/72-04/21/94	51	8.2	8.202	8.7	7.6	0.074	0.271	7.82	8.	8.4	8.5
00400p	CONVERTED PH (STANDARD UNITS)	02/23/72-04/21/94	51	8.2	8.115	8.7	7.6	0.081	0.285	7.82	8.	8.4	8.5
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/23/72-04/21/94	51	0.006	0.008	0.025	0.002	0.	0.005	0.003	0.004	0.01	0.015
00403	PH, LAB, STANDARD UNITS SU	02/23/72-07/07/87	22	8.25	8.232	8.4	7.9	0.018	0.136	8.1	8.1	8.325	8.4
00403	CONVERTED PH, LAB, STANDARD UNITS	02/23/72-07/07/87	22	8.247	8.211	8.4	7.9	0.019	0.138	8.1	8.1	8.325	8.4
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/23/72-07/07/87	22	0.006	0.006	0.013	0.004	0.	0.002	0.004	0.005	0.008	0.008
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	02/06/78-04/21/94	21	156.	157.095	212.	128.	417.49	20.433	128.4	143.	170.5	178.6
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/23/72-04/21/94	29	29.	42.328	153.	2.5	1510.076	38.86	12.	18.5	56.	127.
00535p	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	02/23/72-04/21/94	29	12.	13.828	51.	2.5	133.701	11.563	4.	5.5	15.5	31.
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/23/72-04/21/94	29	0.07	0.092	0.6	0.01	0.013	0.116	0.01	0.025	0.1	0.2
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/23/72-04/21/94	29 ##	0.015	0.019	0.09	0.005	0.	0.018	0.005	0.008	0.03	0.03

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

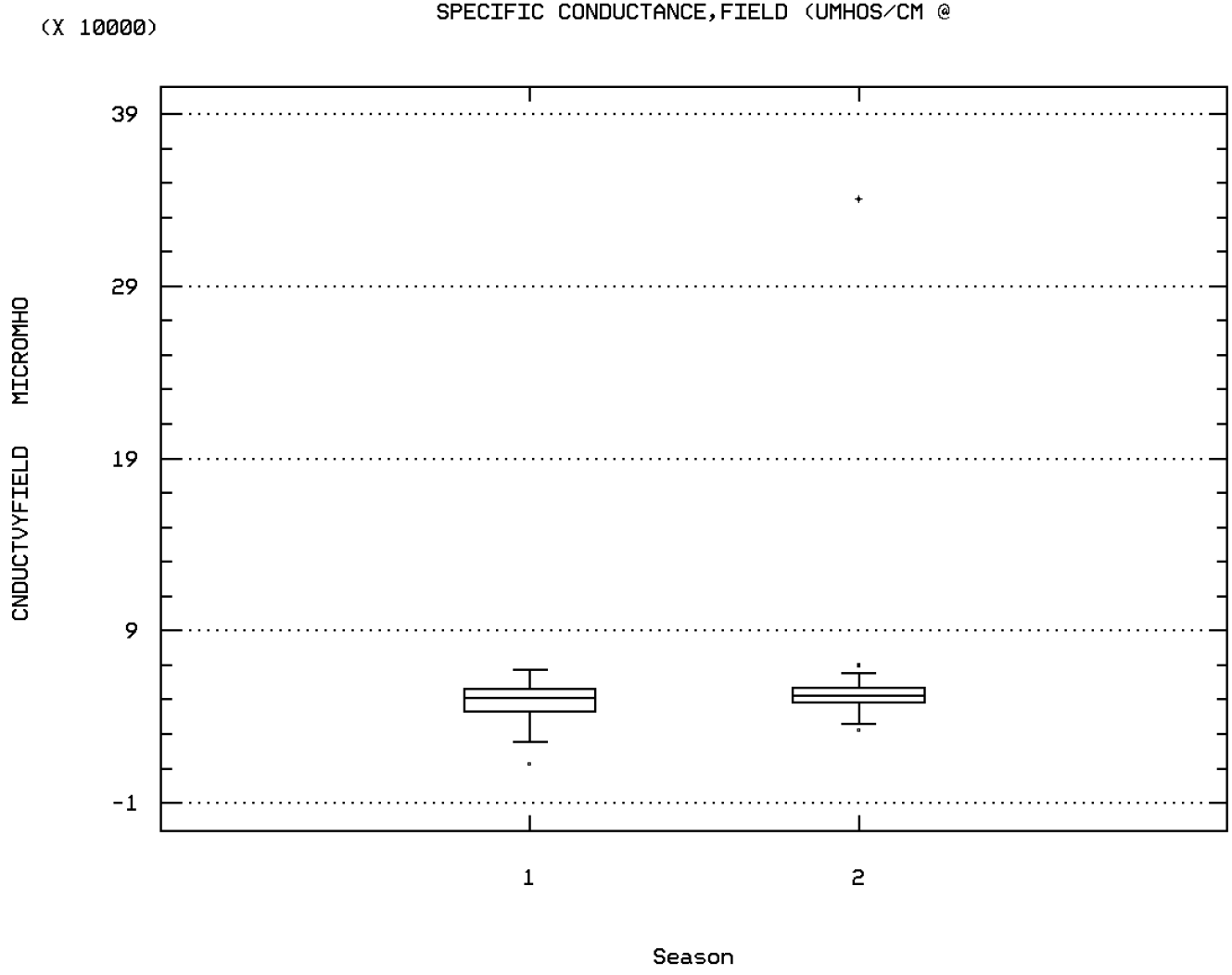
Seasonal Analysis for Season #2: 11/01 to 4/30 - Station PAIS0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	02/23/72-10/09/85	21	0.15	0.18	0.43	0.06	0.011	0.107	0.07	0.09	0.235	0.37
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/11/73-10/09/85	19	0.03	0.035	0.15	0.015	0.001	0.034	0.015	0.015	0.03	0.09
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	02/23/72-04/21/94	29	0.05	0.062	0.2	0.02	0.002	0.041	0.02	0.035	0.08	0.12
00671p	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/11/73-04/21/94	27	0.01	0.018	0.05	0.005	0.	0.015	0.005	0.005	0.03	0.05
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	06/19/74-04/21/94	24	8.	8.5	17.	0.5	17.63	4.199	1.75	6.	11.	14.5
00940p	CHLORIDE,TOTAL IN WATER MG/L	02/23/72-04/21/94	29	19260.	19639.69	33800.	9910.	25215995.936	5021.553	12400.	16600.	21901.	25400.
00945p	SULFATE, TOTAL (MG/L AS SO4)	02/23/72-04/21/94	29	2822.	2667.172	3800.	1300.	359416.148	599.513	1460.	2360.	3010.	3390.
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	03/17/75-08/05/81	7	0.	30.286	118.	0.	2603.238	51.022	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	03/17/75-08/05/81	7	0.	0.661	2.072	0.	0.902	0.95	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			4.583								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	03/17/75-04/21/94	16 ##	3.5	3.719	5.	0.5	1.632	1.278	1.2	3.5	5.	5.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	03/17/75-04/21/94	16 ##	0.544	0.523	0.699	-0.301	0.065	0.255	0.033	0.544	0.699	0.699
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			3.338								
32211p	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	02/23/72-04/21/94	27	4.	13.359	70.	0.5	350.086	18.711	1.	2.5	17.	44.
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	02/06/78-04/21/94	19 ##	1.	2.241	13.	0.	9.104	3.017	0.	0.5	2.5	6.58

** - 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

Station: PAIS0044 Parameter Code: 00094

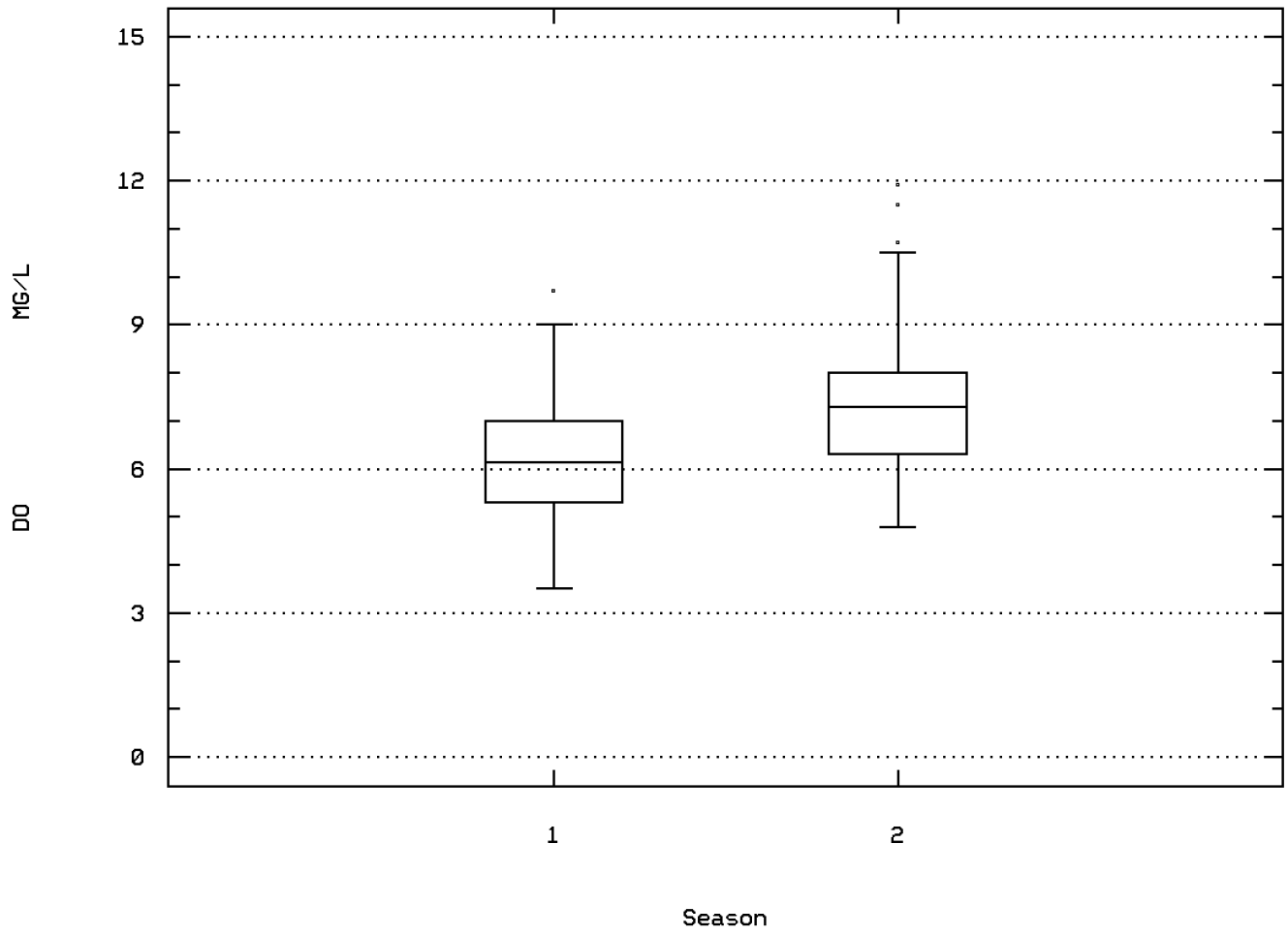
SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @



LAGUNA MADRE CHANNEL MARKER C-225A NORT

Station: PAIS0044 Parameter Code: 00300

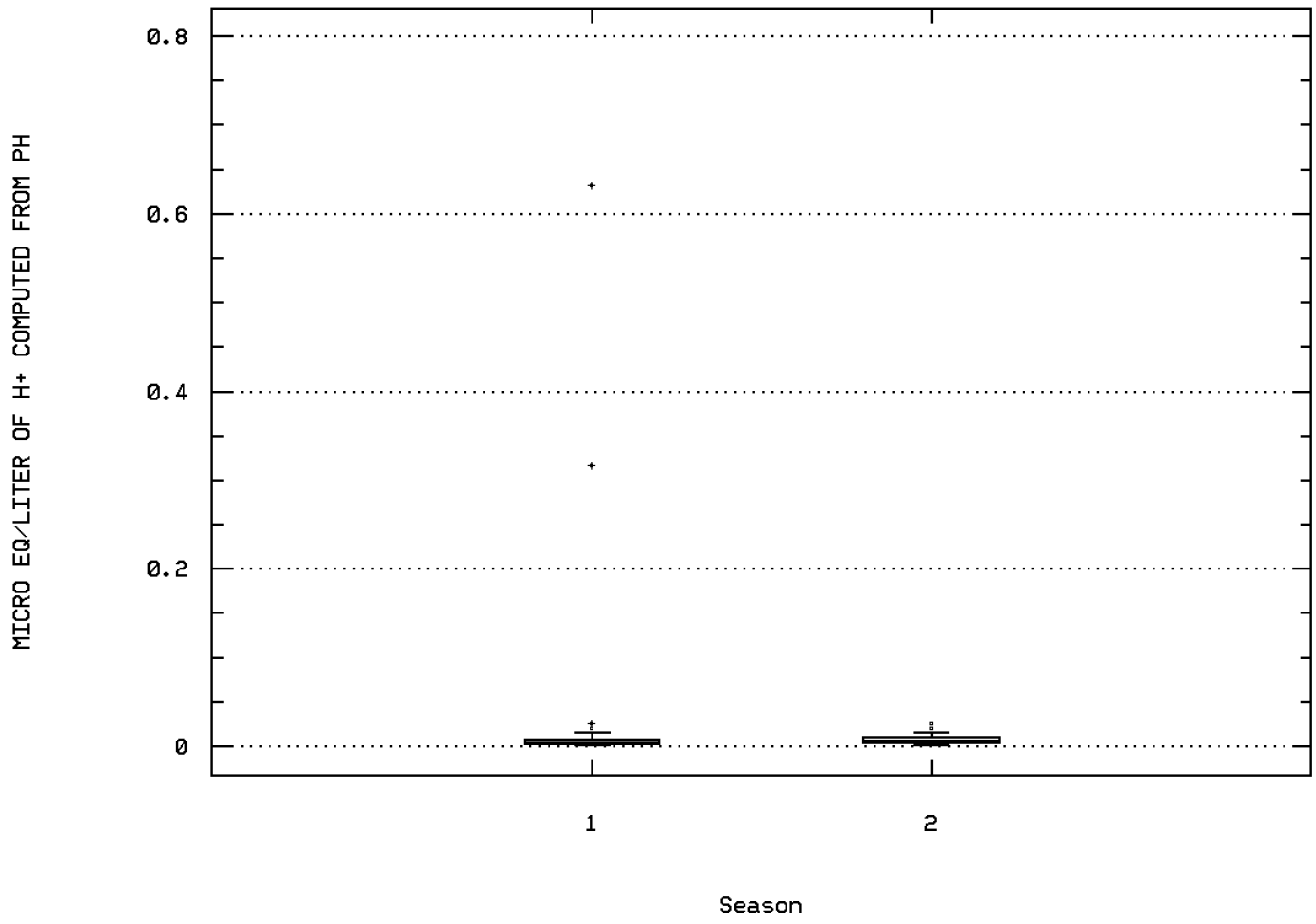
OXYGEN, DISSOLVED



LAGUNA MADRE CHANNEL MARKER C-225A NORT

Station: PAIS0044 Parameter Code: 00400

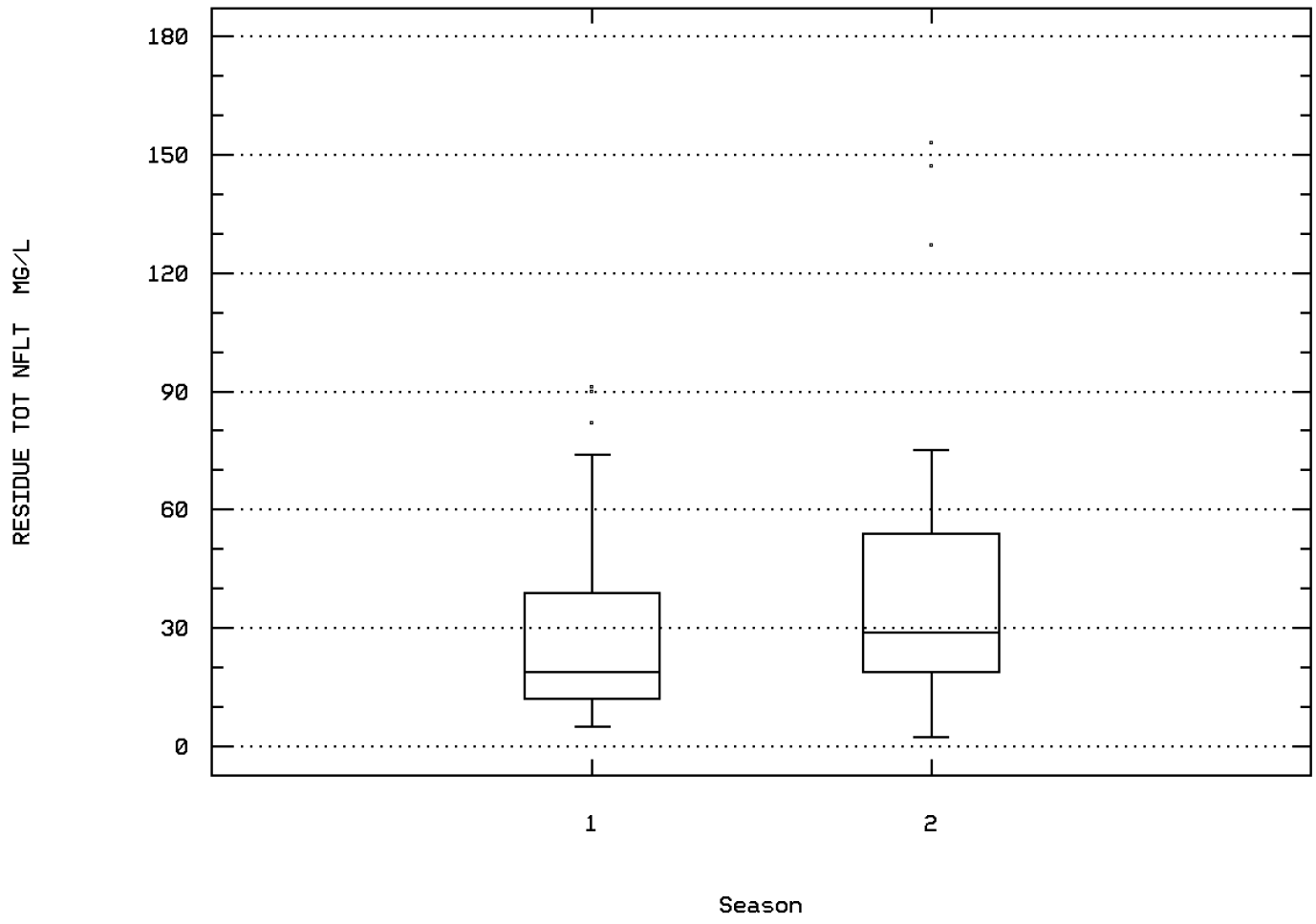
MICRO EQ/LITER OF H+ COMPUTED FROM PH



LAGUNA MADRE CHANNEL MARKER C-225A NORT

Station: PAIS0044 Parameter Code: 00530

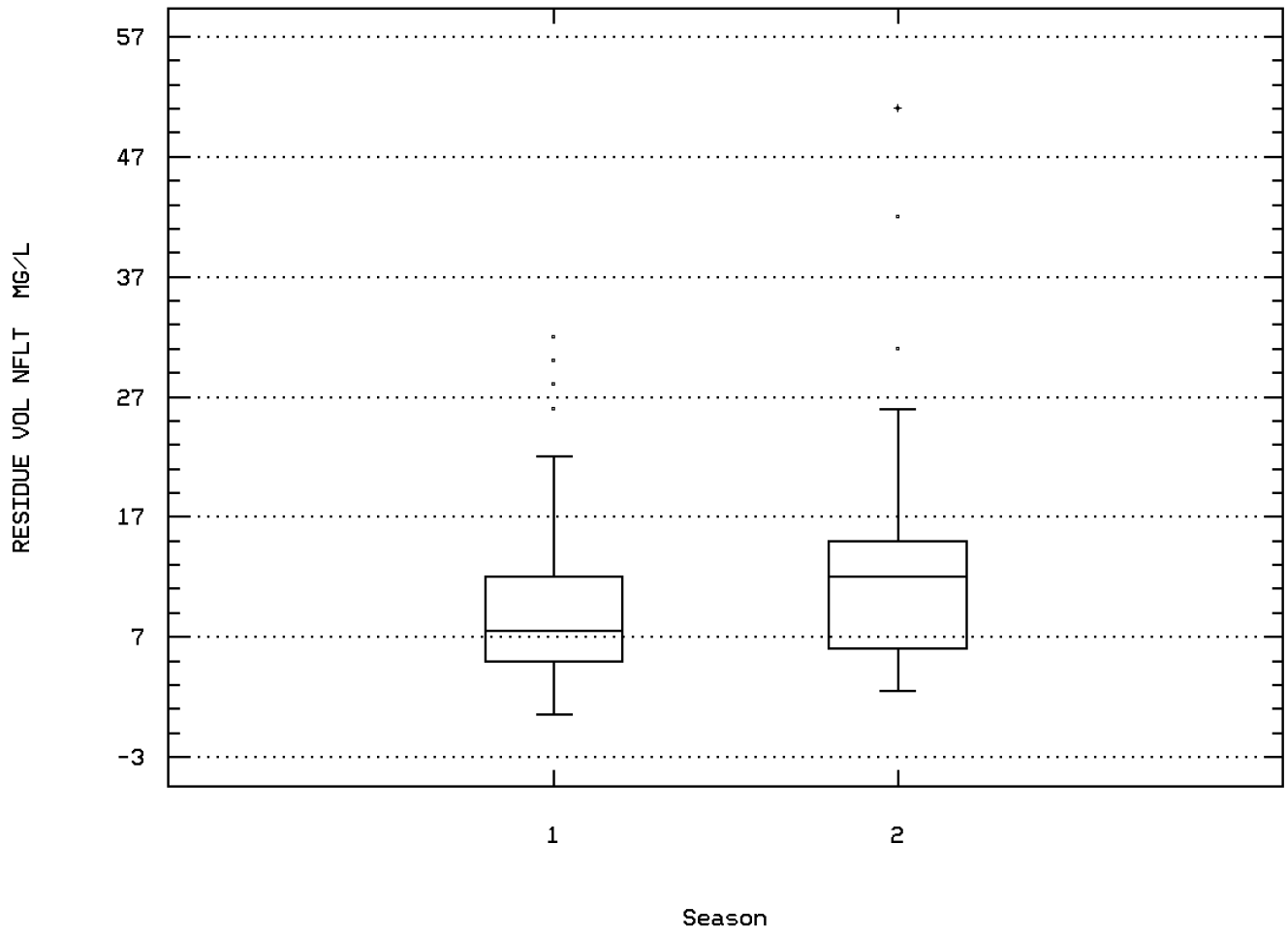
RESIDUE, TOTAL NONFILTRABLE (MG/L)



LAGUNA MADRE CHANNEL MARKER C-225A NORT

Station: PAIS0044 Parameter Code: 00535

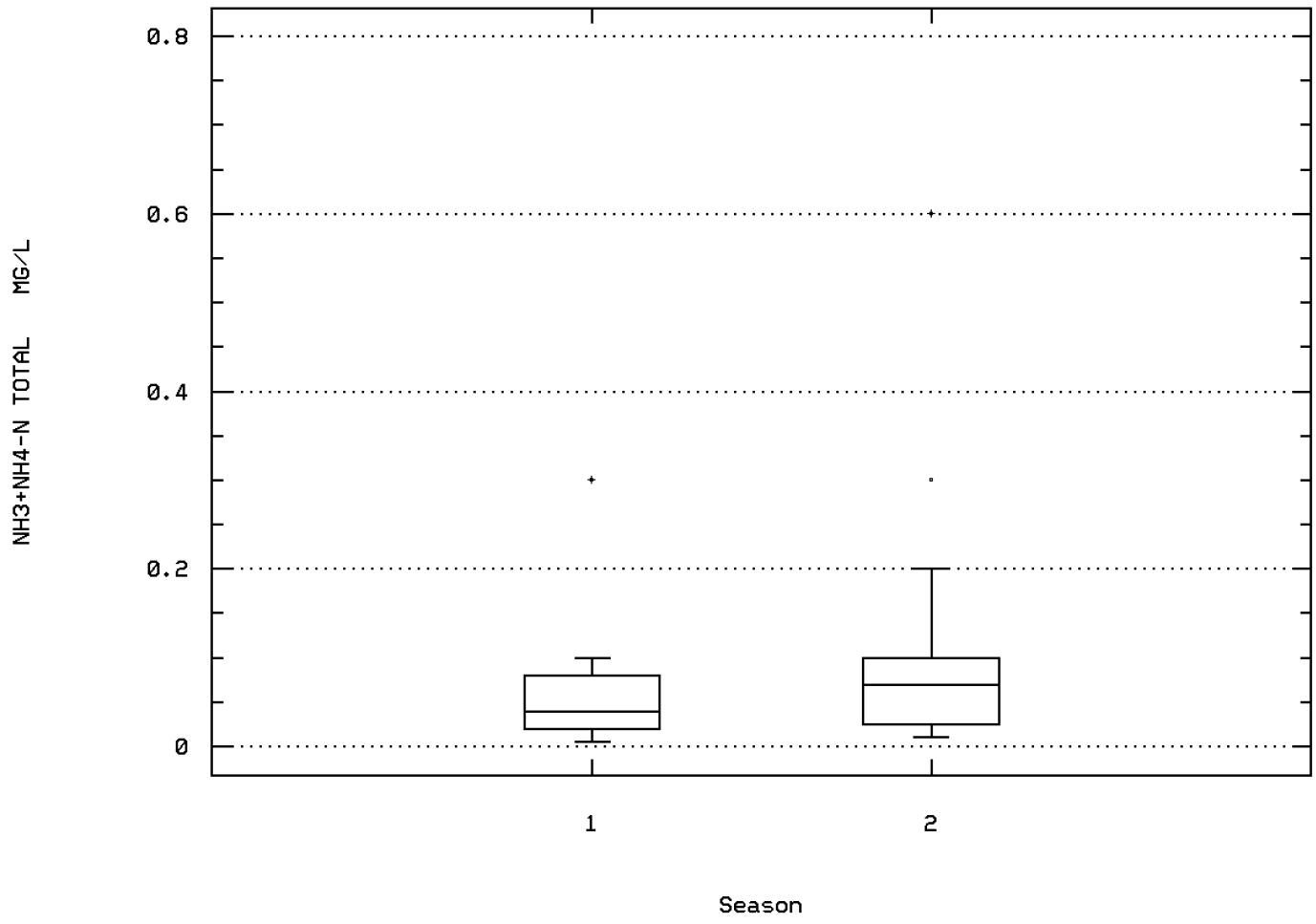
RESIDUE, VOLATILE NONFILTRABLE (MG/L)



LAGUNA MADRE CHANNEL MARKER C-225A NORT

Station: PAIS0044 Parameter Code: 00610

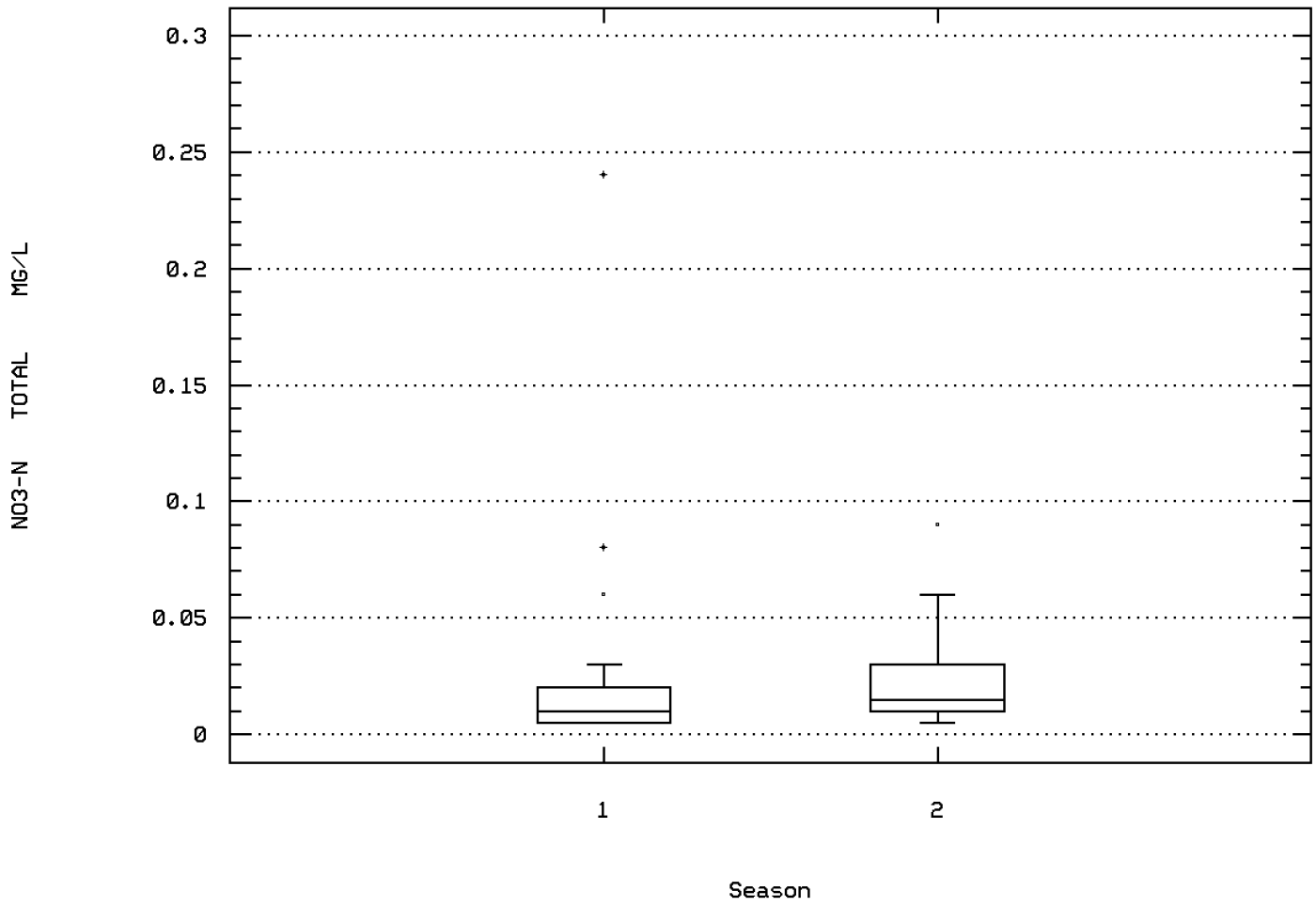
NITROGEN, AMMONIA, TOTAL (MG/L AS N)



LAGUNA MADRE CHANNEL MARKER C-225A NORT

Station: PAIS0044 Parameter Code: 00620

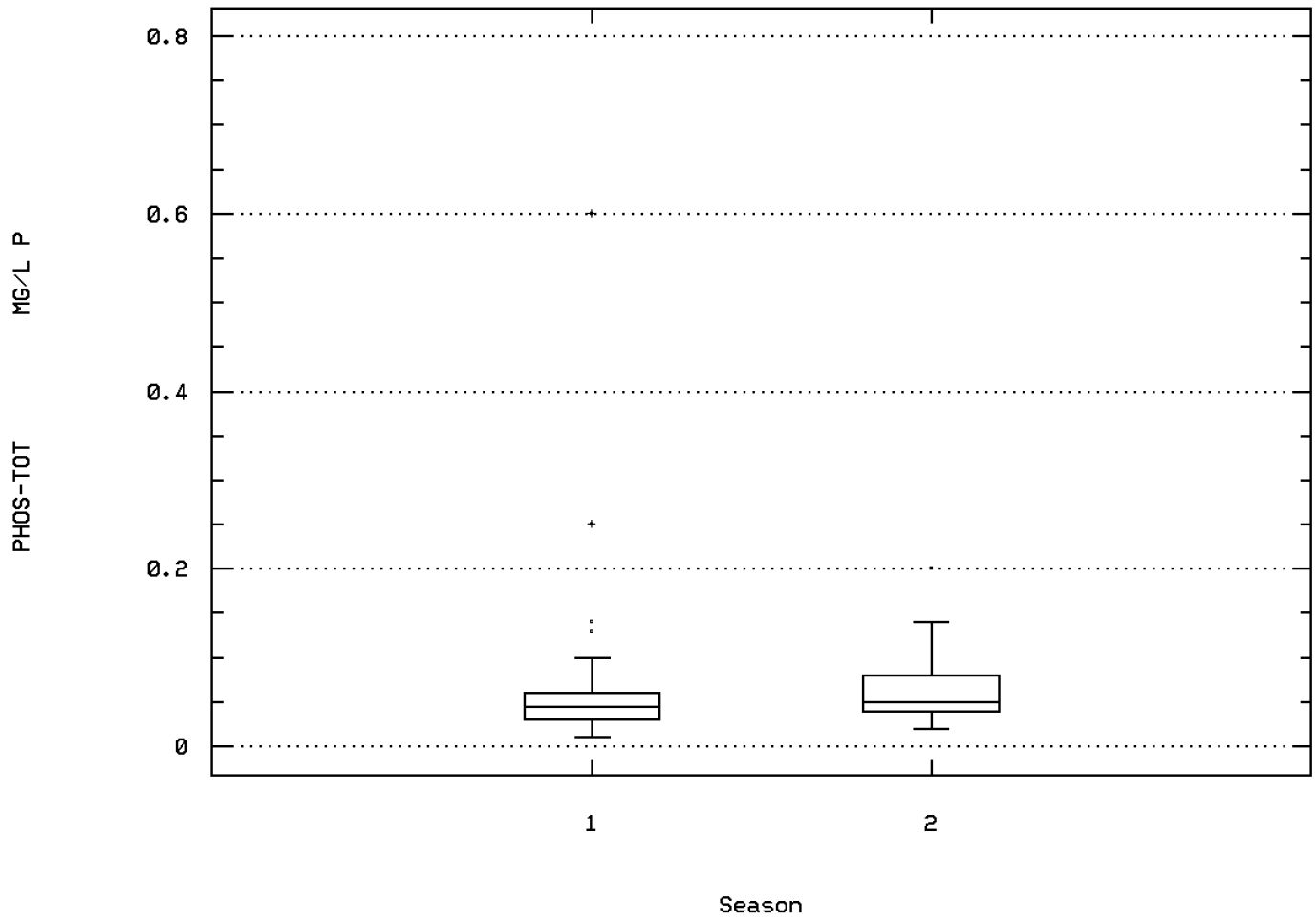
NITRATE NITROGEN, TOTAL (MG/L AS N)



LAGUNA MADRE CHANNEL MARKER C-225A NORT

Station: PAIS0044 Parameter Code: 00665

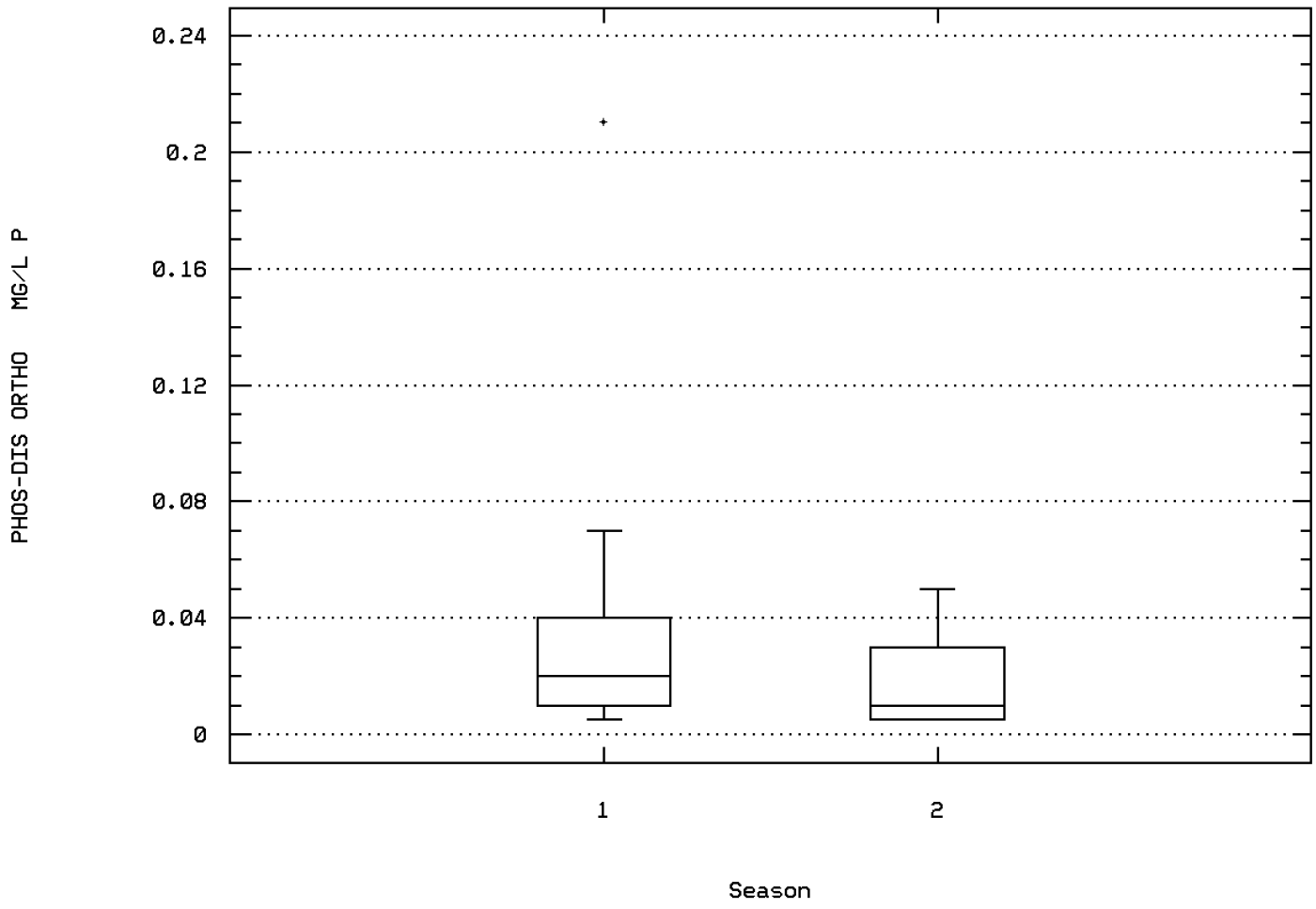
PHOSPHORUS, TOTAL (MG/L AS P)



LAGUNA MADRE CHANNEL MARKER C-225A NORT

Station: PAIS0044 Parameter Code: 00671

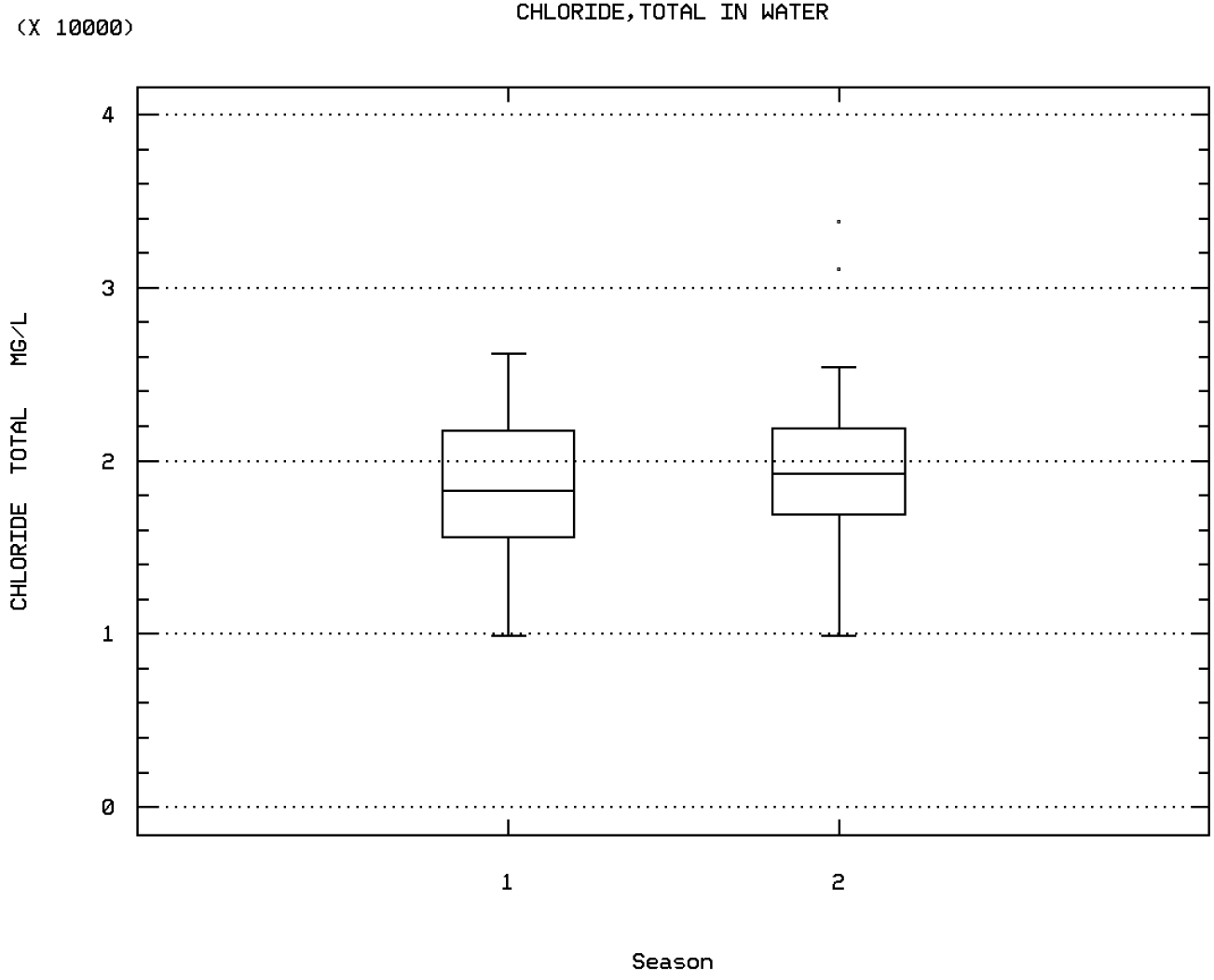
PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (M



LAGUNA MADRE CHANNEL MARKER C-225A NORT

Station: PAIS0044 Parameter Code: 00940

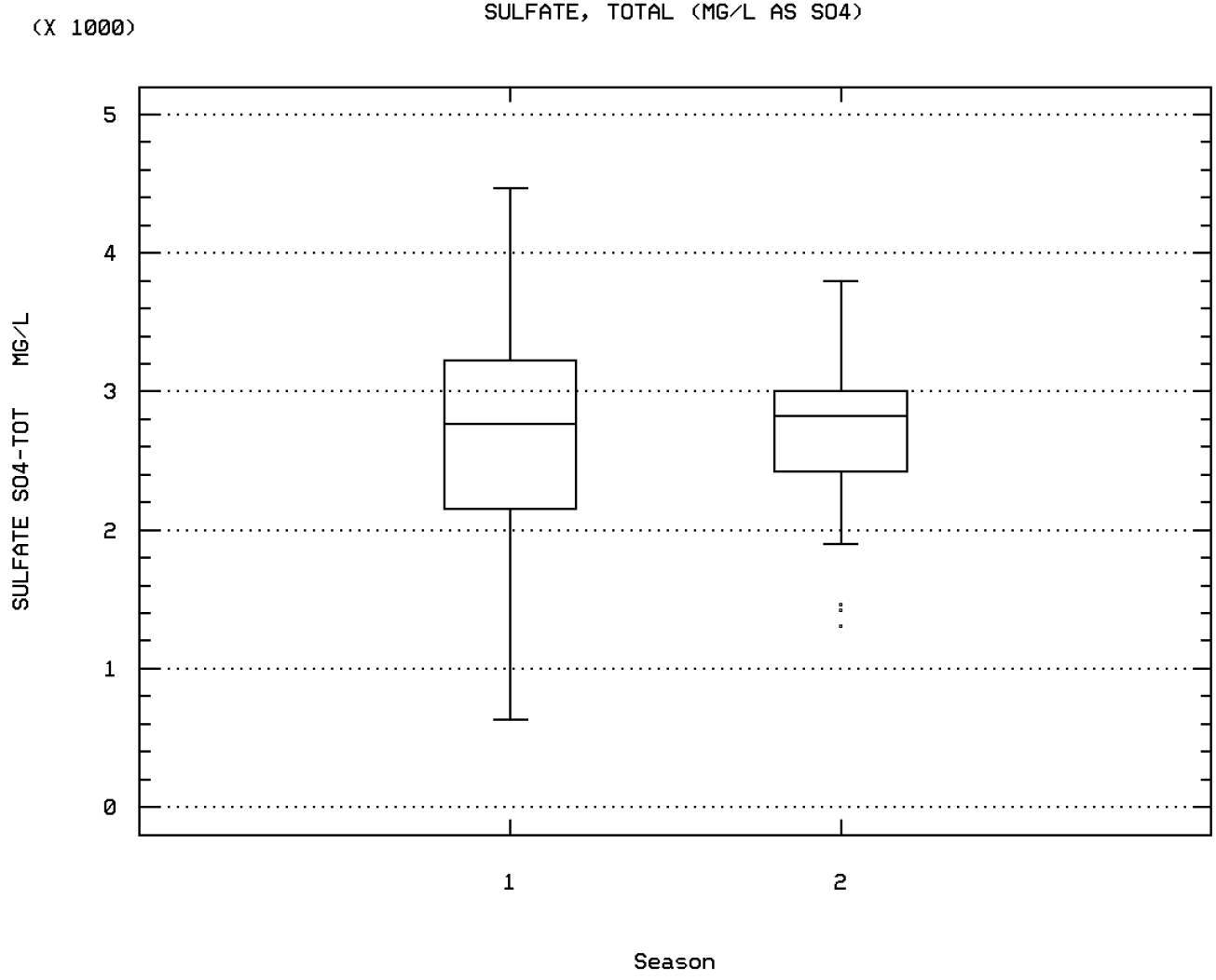
CHLORIDE,TOTAL IN WATER



LAGUNA MADRE CHANNEL MARKER C-225A NORT

Station: PAIS0044 Parameter Code: 00945

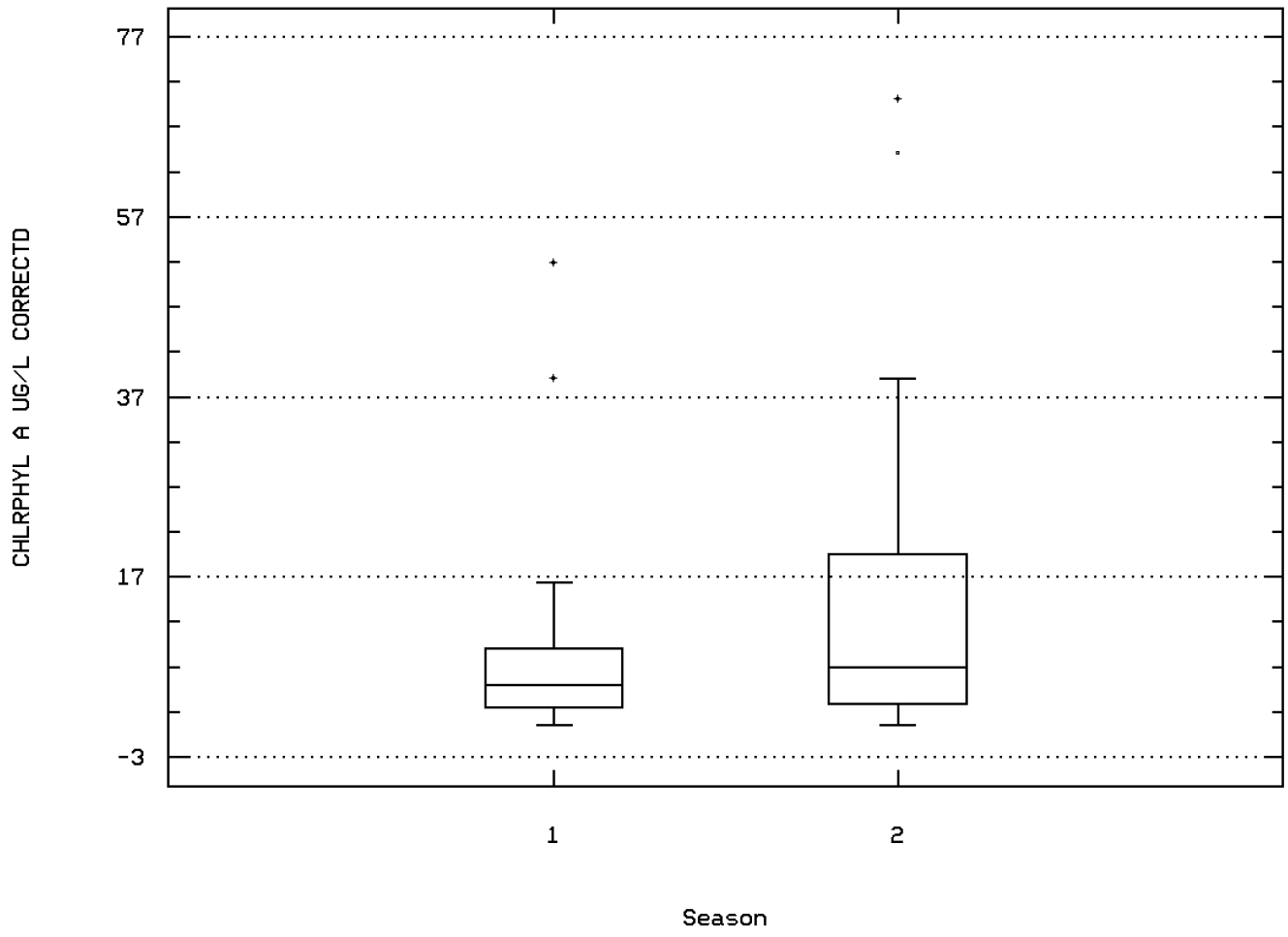
SULFATE, TOTAL (MG/L AS SO4)



LAGUNA MADRE CHANNEL MARKER C-225A NORT

Station: PAIS0044 Parameter Code: 32211

CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC A



LAGUNA MADRE CHANNEL MARKER C-225A NORT

Station Inventory for Station: PAIS0045

NPS Station ID: PAIS0045 LAT/LON: 26.783337/ -97.466670 Agency: 21TEXWR Date Created: 12/15/79
Location: LAGUNA MADRE AT CHANNEL MARKER C-225A FIPS State/County: 48261 TEXAS/KENEDY
Station Type: /TYPA/AMBNT/OCEAN STORET Station ID(s): 24910600
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110207 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: RIO GRANDE LOWER BELOW PECOS RIVER ECO Region:
RF1 Index: 12110207 RF1 Mile Point: 0.000 Distance from RF1: 11.30 On/Off RF1:
RF3 Index: 12110207130000.00 RF3 Mile Point: 3.36 Distance from RF3: 0.17 On/Off RF3:
Description:

Parameter Inventory for Station: PAIS0045

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/17/74-06/06/78	16	27.7	23.519	29.	8.8	47.127	6.865	9.08	18.9	28.4	28.86
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	09/17/74-06/06/78	13	82.8	78.854	84.2	63.3	53.554	7.318	64.02	74.3	83.45	84.04
00032	CLOUD COVER (PERCENT)	09/08/76-02/06/78	5	10.	29.2	70.	6.	843.2	29.038	**	**	**	**
00040	WIND DIRECTION, AZIMUTH	06/28/76-06/28/76	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	09/17/74-02/06/78	7	50000.	50585.714	64500.	36300.	73104761.905	8550.132	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	03/17/75-06/06/78	17	6.7	6.612	10.6	4.6	2.347	1.532	4.6	5.45	7.35	8.68
00400	PH (STANDARD UNITS)	03/17/75-03/17/77	4	8.25	8.2	8.4	7.9	0.06	0.245	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	03/17/75-03/17/77	4	8.225	8.147	8.4	7.9	0.064	0.252	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/17/75-03/17/77	4	0.006	0.007	0.013	0.004	0.	0.004	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	03/17/75-06/06/78	8	2.	2.	2.	2.	0.	0.	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	03/17/75-06/06/78	8	0.301	0.301	0.301	0.301	0.	0.	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			2.								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	03/17/75-03/17/75	1	2.	2.	2.	2.	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	03/17/75-03/17/75	1	0.301	0.301	0.301	0.301	0.	0.	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			2.								
32222	CHLOROPHYLL A IN BOTTOM DEPOSITS (UG/KG DRY WGT)	02/06/78-06/06/78	2 ##	0.006	0.006	0.01	0.001	0.	0.006	**	**	**	**
70211	TIDE, HIGH OR LOW,BEFORE OR AFTER,HOUR,MINUTE	09/11/73-12/04/74	3	0.8	0.233	0.8	-0.2	0.263	0.513	**	**	**	**
70295	RESIDUE,TOTAL FILTRABLE (DRIED AT ANY TEMP),MG/L	09/13/72-06/06/78	53	26000.	27166.981	170000.	6250.	426635571.48	20655.158	16700.	21375.	27500.	30430.

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

EPA Water Quality Criteria Analysis for Station: PAIS0045

				Total	Exceed	Prop.	----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------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.	17	0	0.00	10	0	0.00	7	0	0.00						
00400	PH	Marine Chronic	8.5	4	0	0.00	2	0	0.00	2	0	0.00						
		Other-Lo Lim.	6.5	4	0	0.00	2	0	0.00	2	0	0.00						
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	8	0	0.00	5	0	0.00	3	0	0.00						
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: PAIS0046

NPS Station ID: PAIS0046 LAT/LON: 26.794448/ -97.475003 Agency: 21TXDOH Date Created: 05/26/79
Location: LAGUNA MADRE EAST OF RINCON DE SAN JOSE FIPS State/County: 48261 TEXAS/KENEDY
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): LAV00378
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110207 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: RIO GRANDE LOWER BELOW PECOS RIVER ECO Region:
RF1 Index: 12110207 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110207000240.43 RF3 Mile Point: 43.28 Distance from RF3: 0.04 On/Off RF3:
Description:
DATA FROM TEXAS STATE DEPARTMENT OF HEALTH SAMPLES ANALYZED FOR TOXICS SAMPLE TAKEN FROM
LAGUNA MADRE EAST OF RINCON DE SAN JOSE

Parameter Inventory for Station: PAIS0046

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: PAIS0047

NPS Station ID: PAIS0047 LAT/LON: 26.794448/ -97.475003 Agency: 21TXDOH Date Created: 06/02/79
Location: LAGUNA MADRE EAST OF RINCON DE SAN JOSE FIPS State/County: 48261 TEXAS/KENEDY
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): LAG00378
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110207 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: RIO GRANDE LOWER BELOW PECOS RIVER ECO Region:
RF1 Index: 12110207 RF1 Mile Point: 0.000 Distance from RF1: 11.30 On/Off RF1:
RF3 Index: 12110207130000.00 RF3 Mile Point: 3.36 Distance from RF3: 0.17 On/Off RF3:
Description:
DATA FROM TEXAS STATE DEPARTMENT OF HEALTH SAMPLES ANALYZED FOR TOXICS SAMPLE TAKEN FROM
LAGUNA MADRE EAST OF RINCON DE SAN JOSE

Parameter Inventory for Station: PAIS0047

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/17/77-05/17/77	1	2262.	2262.	2262.	2262.	0.	0.	**	**	**	**
81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	05/17/77-05/17/77	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

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

Station Inventory for Station: PAIS0048

NPS Station ID: PAIS0048 LAT/LON: 26.801254/ -97.471337 Agency: 11NPSWRD Date Created: 02/20/99
Location: LOWER LAGUNA MADRE TRANSECT 16 SITE 2 FIPS State/County: 48261 TEXAS/KENEDY
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): PAIS_TWDB_16-2
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110207 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110207 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE POTRERO LOPENO SW TEXAS-KENEDY CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT TRANSECT 16 SITE 2 IN THE LOWER LAGUNA MADRE. DATA ARE FROM A SERIES OF YEARLY REPORTS (NUMBERS 117; 144; 171; AND 191) BY D. C. HAHL AND KARL W. RATZLAFF OF THE U.S. GEOLOGICAL SURVEY FOR THE TEXAS WATER DEVELOPMENT BOARD. THE REPORTS ARE TITLED "CHEMICAL AND PHYSICAL CHARACTERISTICS OF WATER IN ESTUARIES OF TEXAS SEPTEMBER 1967-SEPTEMBER 1968; OCTOBER 1968-SEPTEMBER 1969; OCTOBER 1969-SEPTEMBER 1970; AND OCTOBER 1970-SEPTEMBER 1971" AND WERE PUBLISHED IN MAY 1970; APRIL 1972; JUNE 1973; AND MAY 1975 RESPECTIVELY. THE PURPOSE OF THESE REPORTS WAS TO CREATE "A LONG-TERM RECORD OF THE CHEMICAL; PHYSICAL; AND HYDRAULIC CHARACTERISTICS OF THE TEXAS ESTUARINE SYSTEMS." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0048

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/23/68-10/07/70	17	5.	7.529	17.	1.	29.89	5.467	1.	3.	12.	16.2
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/23/68-10/07/70	17	28.2	27.841	29.1	26.2	1.015	1.008	26.2	26.95	28.7	29.02
00078	TRANSPARENCY, SECCHI DISC (METERS)	08/23/68-10/07/70	3	1.52	1.137	1.83	0.06	0.893	0.945	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/23/68-10/07/70	17	53000.	48647.059	75000.	12000.	331617647.059	18210.372	12800.	41500.	60000.	73400.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/23/68-08/23/68	2	60300.	60300.	62300.	58300.	8000000.	2828.427	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/23/68-10/07/70	17	6.8	6.653	9.9	3.9	4.218	2.054	3.9	4.9	8.95	9.58
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/23/68-10/07/70	17	107.	100.471	138.	64.	585.765	24.203	64.	77.5	121.5	130.
00406	PH, FIELD, STANDARD UNITS SU	08/23/68-10/07/70	17	8.6	8.559	8.9	8.2	0.071	0.267	8.2	8.25	8.8	8.9
00406	CONVERTED PH, FIELD, STANDARD UNITS	08/23/68-10/07/70	17	8.6	8.481	8.9	8.2	0.078	0.279	8.2	8.25	8.8	8.9
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/23/68-10/07/70	17	0.003	0.003	0.006	0.001	0.	0.002	0.001	0.002	0.006	0.006
00440	BICARBONATE ION (MG/L AS HCO3)	08/23/68-08/23/68	2	121.5	121.5	123.	120.	4.5	2.121	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	08/23/68-08/23/68	2	0.055	0.055	0.07	0.04	0.	0.021	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	08/23/68-08/23/68	2	0.03	0.03	0.04	0.02	0.	0.014	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/23/68-08/23/68	2	7355.	7355.	7490.	7220.	36450.	190.919	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/23/68-08/23/68	2	480.	480.	500.	460.	800.	28.284	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/23/68-08/23/68	2	1530.	1530.	1550.	1510.	800.	28.284	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	08/23/68-08/23/68	2	12550.	12550.	13100.	12000.	605000.	777.817	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/23/68-08/23/68	2	22250.	22250.	23100.	21400.	1445000.	1202.082	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/23/68-08/23/68	2	3150.	3150.	3260.	3040.	24200.	155.563	**	**	**	**

** - Less than 9 observations ## - 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: PAIS0048

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/23/68-08/23/68	2	3.4	3.4	3.6	3.2	0.08	0.283	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	08/23/68-08/23/68	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/23/68-08/23/68	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01082	STRONTIUM, TOTAL (UG/L AS SR)	08/23/68-08/23/68	2	9500.	9500.	9600.	9400.	20000.	141.421	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	08/23/68-08/23/68	2 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	08/23/68-08/23/68	2	200.	200.	230.	170.	1800.	42.426	**	**	**	**
46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	08/23/68-08/23/68	2	8475.	8475.	9620.	7330.	2622050.	1619.275	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/23/68-08/23/68	2	40.	40.	42.	38.	8.	2.828	**	**	**	**
71820	DENSITY (GM/ML AT 20 C)	08/23/68-08/23/68	2	1.027	1.027	1.028	1.025	0.	0.002	**	**	**	**
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	08/23/68-08/23/68	2	0.195	0.195	0.3	0.09	0.022	0.148	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/23/68-08/23/68	2	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	08/23/68-08/23/68	2	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: PAIS0048

				Total	Exceed	Prop.	----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------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.	17	2	0.12	17	2	0.12									
00406	PH, FIELD	Marine Chronic	8.5	17	11	0.65	17	11	0.65									
		Other-Lo Lim.	6.5	17	0	0.00	17	0	0.00									
01090	ZINC, DISSOLVED	Marine Acute	95.	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: PAIS0049

NPS Station ID: PAIS0049
LAT/LON: 26.806115/ -97.470559
Agency: 112WRD
Date Created: 09/26/78
Location: 1216302LAGUNA MADRE ES LINE 163 SITE 02
FIPS State/County: 48261 TEXAS/KENEDY
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): 264822097281400
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110207
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 12110207001
RF1 Mile Point: 53.980
Distance from RF1: 38.30
On/Off RF1: ON
RF3 Index: 12110207141800.00
RF3 Mile Point: 4.39
Distance from RF3: 1.74
On/Off RF3:
Description:

Parameter Inventory for Station: PAIS0049

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/23/68-03/30/82	70	7.	7.529	17.	1.	30.34	5.508	1.	1.	13.25	15.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/23/68-03/30/82	70	25.7	23.67	30.	9.	28.668	5.354	17.	20.	27.4	28.6
00070	TURBIDITY, (JACKSON CANDLE UNITS)	06/04/72-06/04/75	25	20.	26.436	169.9	5.	1001.061	31.64	8.	12.5	27.5	42.6
00078	TRANSPARENCY, SECCHI DISC (METERS)	08/23/68-03/30/82	18	0.715	1.188	6.9	0.18	2.24	1.497	0.405	0.528	1.483	2.337
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/23/68-03/30/82	70	49500.	48030.	75000.	12000.	125600101.449	11207.145	36260.	42750.	56250.	60000.
00300p	OXYGEN, DISSOLVED MG/L	08/23/68-03/30/82	64	6.55	6.466	9.9	3.9	2.032	1.426	4.5	5.45	6.9	8.7
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/23/68-03/30/82	64	89.	90.281	137.9	64.	252.245	15.882	70.5	79.	97.75	114.4
00310	BOD, 5 DAY, 20 DEG C MG/L	06/04/72-06/04/75	14	1.7	2.029	4.3	0.6	1.162	1.078	0.75	1.375	2.55	3.95
00400p	PH (STANDARD UNITS)	08/23/68-03/30/82	66	8.4	8.4	8.9	8.	0.048	0.219	8.17	8.2	8.6	8.73
00400p	CONVERTED PH (STANDARD UNITS)	08/23/68-03/30/82	66	8.4	8.351	8.9	8.	0.051	0.225	8.17	8.2	8.6	8.73
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/23/68-03/30/82	66	0.004	0.004	0.01	0.001	0.	0.002	0.002	0.003	0.006	0.007
00405	CARBON DIOXIDE (MG/L AS CO2)	08/23/68-06/04/75	9	0.7	1.022	2.	0.4	0.337	0.58	0.4	0.5	1.5	2.
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/23/68-06/04/75	11	119.	130.273	262.	74.	2478.018	49.78	78.8	101.	150.	239.6
00440	BICARBONATE ION (MG/L AS HCO3)	08/23/68-06/04/75	10	138.	156.8	319.	90.	3994.622	63.203	93.	122.25	179.25	305.4
00445	CARBONATE ION (MG/L AS CO3)	04/24/74-10/23/74	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00600	NITROGEN, TOTAL (MG/L AS N)	04/24/74-06/27/78	4	0.845	0.653	0.91	0.01	0.185	0.43	**	**	**	**
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	04/24/74-06/27/78	4	0.795	0.6	0.81	0.	0.16	0.4	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/23/68-06/27/78	16	0.045	0.058	0.26	0.	0.004	0.064	0.	0.013	0.09	0.141
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/23/68-06/27/78	16	0.01	0.006	0.01	0.	0.	0.005	0.	0.001	0.01	0.01
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/23/68-06/27/78	16	0.	0.015	0.1	0.	0.001	0.034	0.	0.	0.01	0.1
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/24/74-06/27/78	4	0.83	0.638	0.89	0.	0.181	0.426	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/24/74-06/27/78	4	0.015	0.013	0.02	0.	0.	0.01	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	08/23/68-05/23/73	6	0.03	0.04	0.12	0.	0.002	0.045	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/23/68-06/27/78	16	0.06	0.078	0.28	0.	0.006	0.079	0.	0.033	0.08	0.259
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/23/68-05/23/73	6	0.01	0.013	0.04	0.	0.	0.015	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	04/24/74-06/27/78	4	7.75	8.7	12.	7.3	4.927	2.22	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/23/68-06/04/75	10	6500.	6440.	7600.	4500.	1060444.444	1029.779	4560.	5850.	7325.	7580.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/23/68-06/04/75	10	6300.	6300.	7500.	4400.	1075555.556	1037.09	4460.	5675.	7225.	7480.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/23/68-06/04/75	9	450.	446.611	530.	339.9	3302.586	57.468	339.9	409.95	484.95	530.
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/23/68-06/04/75	9	1300.	1294.433	1550.	889.9	58062.89	240.962	889.9	1100.	1505.	1550.
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/23/68-06/04/75	7	12000.	11642.857	13100.	9400.	1679523.81	1295.964	**	**	**	**
00931	SODIUM ADSORPTION RATIO	08/23/68-06/04/75	8	61.	60.75	65.	57.	4.786	2.188	**	**	**	**
00932	SODIUM, PERCENT	04/24/74-06/04/75	6	77.	77.5	79.	77.	0.7	0.837	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	09/27/72-04/24/74	3	9200.	9200.	11000.	7400.	3240000.	1800.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	04/24/74-06/04/75	5	460.	451.98	520.	349.9	4475.102	66.896	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/23/68-06/04/75	9	19000.	19166.667	23100.	13000.	12665000.	3558.792	13000.	16000.	22500.	23100.
00945	SULFATE, TOTAL (MG/L AS SO4)	08/23/68-06/04/75	9	2800.	2800.	3260.	1800.	219900.	468.935	1800.	2550.	3200.	3260.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/27/72-06/04/75	4	1.15	1.275	1.9	0.9	0.203	0.45	**	**	**	**

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

Parameter Inventory for Station: PAIS0049

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/23/68-06/04/75	12	3.55	3.517	5.5	0.8	1.478	1.216	1.22	3.125	4.175	5.35
01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/23/74-10/23/74	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	10/23/74-10/23/74	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	09/27/72-05/23/73	2	3250.	3250.	3600.	2900.	245000.	494.975	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/23/74-10/23/74	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	10/23/74-10/23/74	1	70.	70.	70.	70.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	10/23/74-10/23/74	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	10/23/74-10/23/74	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	10/23/74-10/23/74	1	8.	8.	8.	8.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	10/23/74-10/23/74	1	480.	480.	480.	480.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/23/74-10/23/74	1	160.	160.	160.	160.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	10/23/74-10/23/74	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	10/23/74-10/23/74	1	9.	9.	9.	9.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/23/74-10/23/74	1	150.	150.	150.	150.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/23/74-10/23/74	1	200.	200.	200.	200.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	10/23/74-10/23/74	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/23/74-10/23/74	1	6500.	6500.	6500.	6500.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	10/23/74-10/23/74	1	70.	70.	70.	70.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	10/23/74-10/23/74	1	60.	60.	60.	60.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/23/74-10/23/74	1	40.	40.	40.	40.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/23/74-10/23/74	1	170.	170.	170.	170.	0.	0.	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	10/23/74-06/04/75	2	4.	4.	8.	0.	32.	5.657	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	10/23/74-06/04/75	2	0.452	0.452	0.903	0.	0.408	0.639	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			2.828								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/04/72-06/04/75	3	1.	1.233	2.	0.7	0.463	0.681	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/04/72-06/04/75	3	0.	0.049	0.301	-0.155	0.054	0.232	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			1.119								
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	10/23/74-06/04/75	2	2.5	2.5	5.	0.	12.5	3.536	**	**	**	**
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	10/23/74-06/04/75	2	0.349	0.349	0.699	0.	0.244	0.494	**	**	**	**
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4	GEOMETRIC MEAN =			2.236								
32230	CHLOROPHYLL A (MG/L)	10/23/74-06/04/75	2	0.001	0.001	0.001	0.	0.	0.	**	**	**	**
32231	CHLOROPHYLL B (MG/L)	06/04/72-10/23/74	2	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
32232	CHLOROPHYLL C (MG/L)	06/04/72-10/23/74	2	0.003	0.003	0.003	0.002	0.	0.001	**	**	**	**
39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/23/68-06/04/75	9	35100.	35000.	41800.	23700.	38250000.	6184.658	23700.	29800.	40650.	41800.
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/23/68-06/04/75	10	47.695	47.329	56.6	32.2	57.993	7.615	33.01	40.675	54.	56.34
71865	IODIDE (MG/L AS I)	09/27/72-05/23/73	2	0.11	0.11	0.16	0.06	0.005	0.071	**	**	**	**
71870	BROMIDE (MG/L AS BR)	09/27/72-05/23/73	2	26.145	26.145	52.	0.29	1336.962	36.564	**	**	**	**
71887	NITROGEN, TOTAL, AS NO3 - MG/L	04/24/74-06/27/78	4	3.75	2.885	4.	0.04	3.613	1.901	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	10/23/74-10/23/74	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	10/23/74-10/23/74	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: PAIS0049

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	5/01-10/31 Obs	5/01-10/31 Exceed	5/01-10/31 Prop.	11/01-4/30 Obs	11/01-4/30 Exceed	11/01-4/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	25	1	0.04	18	1	0.06	7	0	0.00						
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	64	2	0.03	37	2	0.05	27	0	0.00						
00400	PH	Marine Chronic	8.5	66	24	0.36	39	23	0.59	27	1	0.04						
		Other-Lo Lim.	6.5	66	0	0.00	39	0	0.00	27	0	0.00						
01000	ARSENIC, DISSOLVED	Marine Acute	69.	1	0	0.00	1	0	0.00									
01002	ARSENIC, TOTAL	Marine Acute	69.	1	0	0.00	1	0	0.00									
01025	CADMIUM, DISSOLVED	Marine Acute	43.	1	0	0.00	1	0	0.00									

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

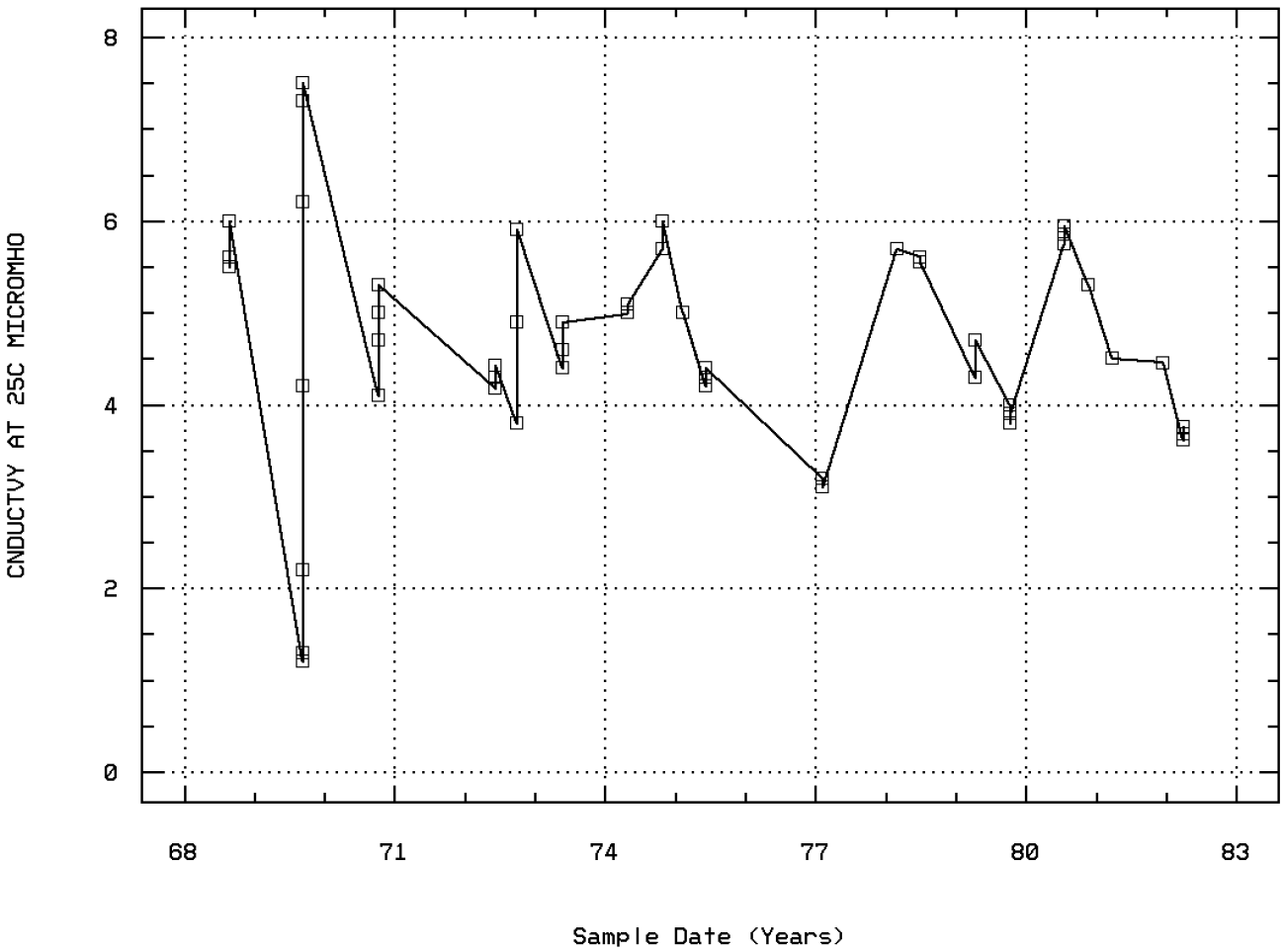
EPA Water Quality Criteria Analysis for Station: PAIS0049

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------5/01-10/31---------- Obs	Exceed	Prop.	----------11/01-4/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
01027	CADMIUM, TOTAL	Marine Acute	43.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Marine Acute	2.9	1	1	1.00	1	1	1.00									
01042	COPPER, TOTAL	Marine Acute	2.9	1	1	1.00	1	1	1.00									
01049	LEAD, DISSOLVED	Marine Acute	220.	1	0	0.00	1	0	0.00									
01051	LEAD, TOTAL	Marine Acute	220.	1	0	0.00	1	0	0.00									
01065	NICKEL, DISSOLVED	Marine Acute	75.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Marine Acute	95.	1	0	0.00	1	0	0.00									
01092	ZINC, TOTAL	Marine Acute	95.	1	0	0.00	1	0	0.00									
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	2	0	0.00	2	0	0.00									
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	3	0	0.00	3	0	0.00									
71890	MERCURY, DISSOLVED	Marine Acute	2.1	1	0	0.00	1	0	0.00									
71900	MERCURY, TOTAL	Marine Acute	2.1	1	0	0.00	1	0	0.00									

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

Station: PAIS0049 Parameter Code: 00095

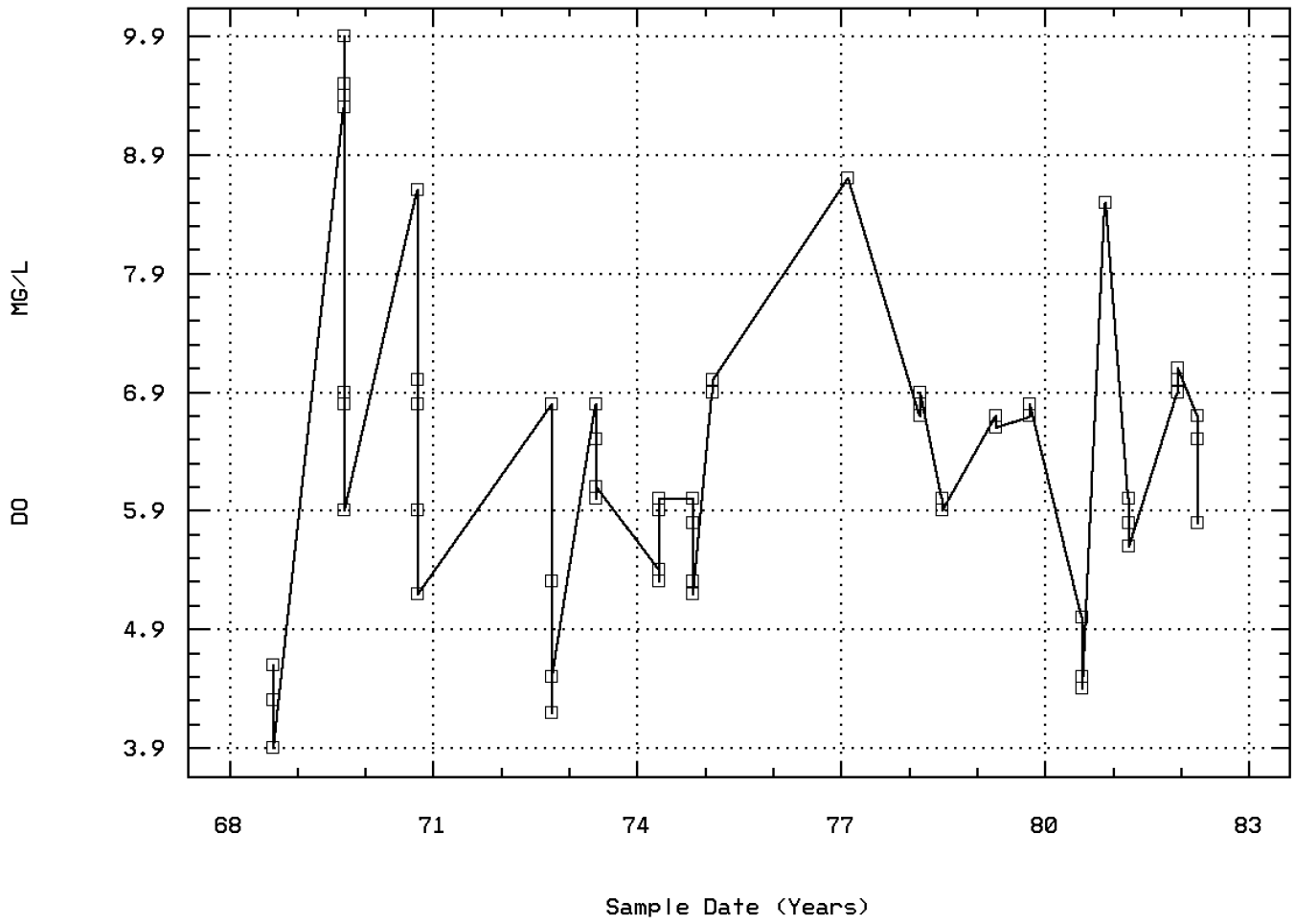
SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)



1216302LAGUNA MADRE ES LINE 163 SITE 02

Station: PAIS0049 Parameter Code: 00300

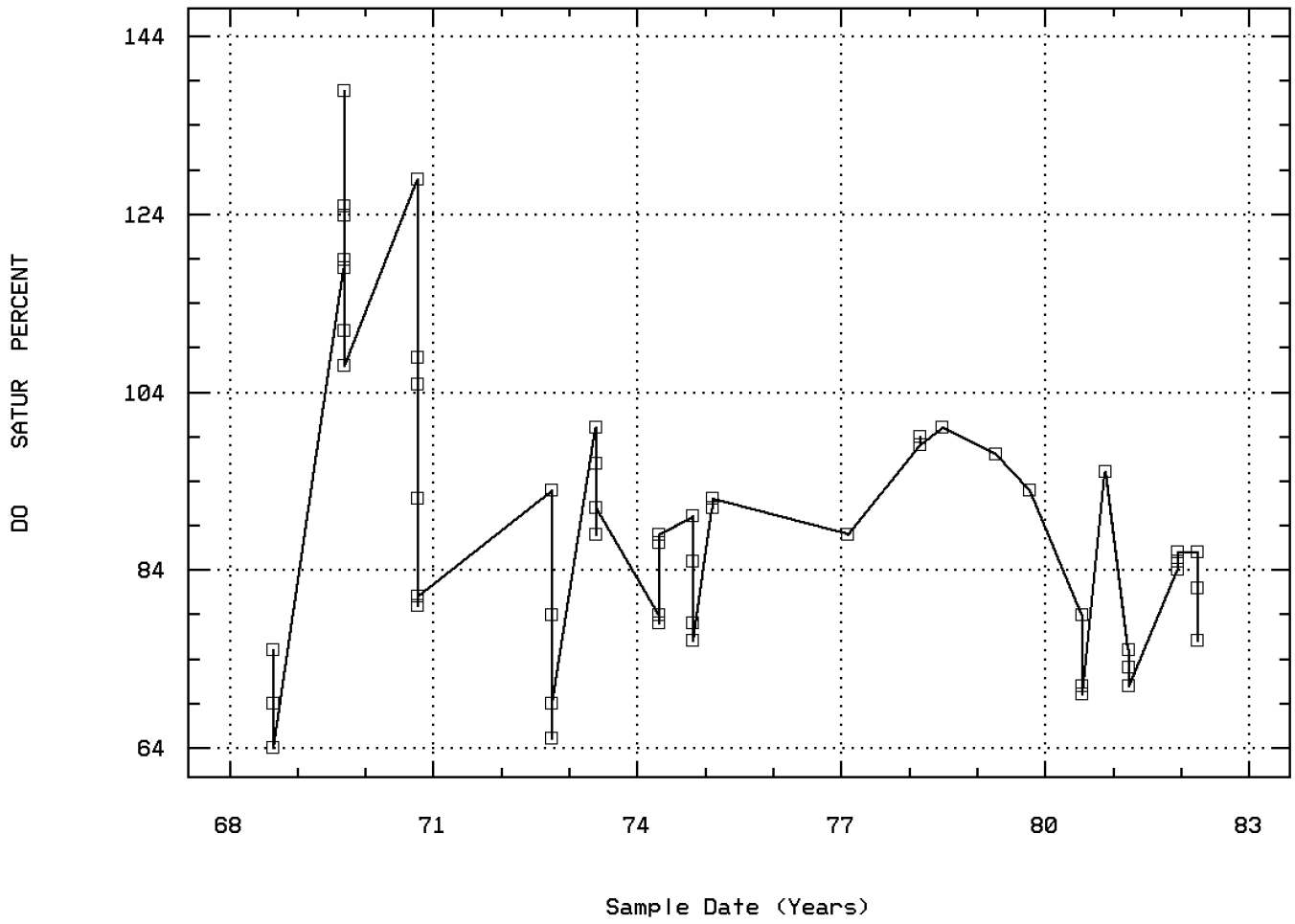
OXYGEN, DISSOLVED



1216302LAGUNA MADRE ES LINE 163 SITE 02

Station: PAIS0049 Parameter Code: 00301

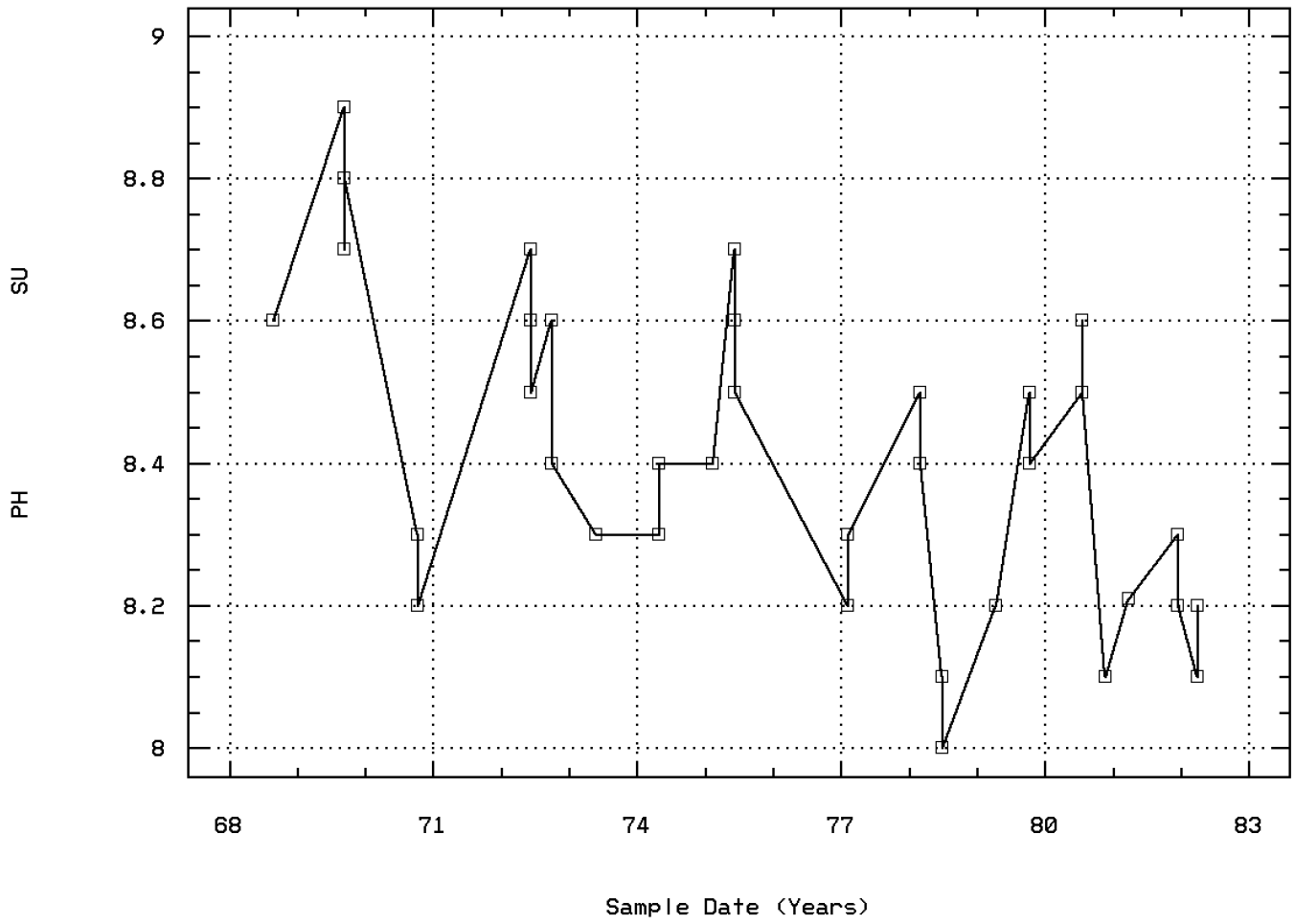
OXYGEN, DISSOLVED, PERCENT OF SATURATIO



1216302LAGUNA MADRE ES LINE 163 SITE 02

Station: PAIS0049 Parameter Code: 00400

PH (STANDARD UNITS)



1216302LAGUNA MADRE ES LINE 163 SITE 02

Seasonal Analysis for Season #1: 5/01 to 10/31 - Station PAIS0049

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/23/68-03/30/82	43	7.	7.674	17.	1.	30.987	5.567	1.	1.	13.	15.6
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/23/68-03/30/82	43	26.9	26.884	30.	23.	2.883	1.698	24.2	26.2	28.2	28.96
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/23/68-03/30/82	43	50000.	49209.302	75000.	12000.	166285625.692	12895.178	38000.	42000.	59000.	60000.
00300	OXYGEN, DISSOLVED MG/L	08/23/68-03/30/82	37	6.	6.154	9.9	3.9	2.504	1.582	4.28	5.1	6.8	9.32
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/23/68-03/30/82	37	92.	92.324	137.9	64.	383.072	19.572	68.2	77.	105.9	124.1
00400	PH (STANDARD UNITS)	08/23/68-03/30/82	39	8.5	8.495	8.9	8.	0.051	0.226	8.2	8.3	8.6	8.8
00400	CONVERTED PH (STANDARD UNITS)	08/23/68-03/30/82	39	8.5	8.437	8.9	8.	0.054	0.233	8.2	8.3	8.6	8.8
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/23/68-03/30/82	39	0.003	0.004	0.01	0.001	0.	0.002	0.002	0.003	0.005	0.006
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/23/68-06/27/78	12	0.03	0.057	0.26	0.	0.005	0.073	0.	0.005	0.087	0.209
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/23/68-06/27/78	12	0.007	0.006	0.01	0.	0.	0.005	0.	0.001	0.01	0.01
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/23/68-06/27/78	12	0.	0.018	0.1	0.	0.001	0.039	0.	0.	0.008	0.1
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/23/68-06/27/78	12	0.045	0.048	0.11	0.	0.001	0.034	0.	0.023	0.078	0.101
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/23/68-06/04/75	9	3.5	3.411	5.5	0.8	1.939	1.392	0.8	2.65	4.4	5.5

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

Seasonal Analysis for Season #2: 11/01 to 4/30 - Station PAIS0049

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/23/68-03/30/82	27	7.	7.296	15.	1.	30.37	5.511	1.	1.	14.	15.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/23/68-03/30/82	27	19.3	18.552	25.3	9.	27.139	5.209	9.	17.	22.	25.22
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/23/68-03/30/82	27	47000.	46151.852	57000.	31000.	58744900.285	7664.522	32000.	43000.	51000.	57000.
00300	OXYGEN, DISSOLVED MG/L	08/23/68-03/30/82	27	6.8	6.893	8.7	5.3	1.13	1.063	5.56	6.	7.1	8.7
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/23/68-03/30/82	27	88.	87.481	99.	71.	66.721	8.168	74.6	82.	95.	98.
00400	PH (STANDARD UNITS)	08/23/68-03/30/82	27	8.21	8.264	8.5	8.1	0.013	0.114	8.1	8.2	8.4	8.4
00400	CONVERTED PH (STANDARD UNITS)	08/23/68-03/30/82	27	8.21	8.25	8.5	8.1	0.013	0.115	8.1	8.2	8.4	8.4
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/23/68-03/30/82	27	0.006	0.006	0.008	0.003	0.	0.001	0.004	0.004	0.006	0.008
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/23/68-06/27/78	4	0.075	0.062	0.09	0.01	0.001	0.038	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/23/68-06/27/78	4	0.01	0.008	0.01	0.	0.	0.005	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/23/68-06/27/78	4	0.005	0.008	0.02	0.	0.	0.01	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/23/68-06/27/78	4	0.16	0.165	0.28	0.06	0.014	0.116	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/23/68-06/04/75	3	3.7	3.833	4.3	3.5	0.173	0.416	**	**	**	**

** - 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 box-and-whisker plot

Station Inventory for Station: PAIS0050

NPS Station ID: PAIS0050
LAT/LON: 26.878893/ -97.462226
Agency: 112WRD
Date Created: 04/18/81
Location: 1215702LAGUNA MADRE ES LINE 157 SITE 02
FIPS State/County: 48261 TEXAS/KENEDY
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): 265244097274400
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110207
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 12110207001
RF1 Mile Point: 41.280
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 12110207141700.00
RF3 Mile Point: 5.25
Distance from RF3: 0.09
On/Off RF3:
Description:

Parameter Inventory for Station: PAIS0050

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/23/68-08/26/76	54	6.5	8.037	18.	1.	34.565	5.879	1.	2.5	15.	17.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/23/68-08/26/76	52	26.4	25.321	29.7	17.6	11.8	3.435	19.7	23.325	27.675	28.95
00070	TURBIDITY, (JACKSON CANDLE UNITS)	09/27/72-02/11/76	31	10.	19.258	60.	0.	257.331	16.042	5.	10.	21.	49.
00078	TRANSPARENCY, SECCHI DISC (METERS)	08/23/68-08/26/76	11	0.94	2.141	13.29	0.65	13.787	3.713	0.666	0.83	1.4	10.998
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/23/68-08/26/76	52	50000.	50923.077	77000.	16000.	129444947.21	11377.388	35400.	45750.	58750.	63000.
00300	OXYGEN, DISSOLVED MG/L	08/23/68-08/26/76	49	5.9	6.043	9.3	4.2	1.431	1.196	4.6	5.05	6.8	7.5
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/23/68-08/26/76	49	87.	89.043	129.9	64.	244.979	15.652	72.	78.	97.	114.9
00310	BOD, 5 DAY, 20 DEG C MG/L	09/11/69-08/26/76	10	1.4	1.59	3.1	0.7	0.634	0.796	0.71	0.95	2.05	3.07
00335	COD, .025N K2CR2O7 MG/L	10/07/70-10/07/70	2	29.5	29.5	30.	29.	0.5	0.707	**	**	**	**
00400	PH (STANDARD UNITS)	08/23/68-08/26/76	47	8.4	8.479	9.	8.2	0.052	0.228	8.2	8.3	8.7	8.9
00400	CONVERTED PH (STANDARD UNITS)	08/23/68-08/26/76	47	8.4	8.427	9.	8.2	0.055	0.234	8.2	8.3	8.7	8.9
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/23/68-08/26/76	47	0.004	0.004	0.006	0.001	0.	0.002	0.001	0.002	0.005	0.006
00405	CARBON DIOXIDE (MG/L AS CO2)	09/11/69-08/26/76	6	0.85	0.85	1.6	0.1	0.283	0.532	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/11/69-08/26/76	6	118.	111.5	167.	33.	2018.7	44.93	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	09/11/69-08/26/76	6	144.	136.	204.	40.	3011.6	54.878	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	10/30/75-02/11/76	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00600	NITROGEN, TOTAL (MG/L AS N)	10/30/75-02/11/76	4	0.525	0.563	1.2	0.	0.392	0.626	**	**	**	**
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	10/30/75-02/11/76	4	0.43	0.49	1.099	0.	0.329	0.574	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/11/69-08/26/76	10	0.115	0.092	0.18	0.	0.005	0.069	0.	0.	0.145	0.178
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	09/11/69-08/26/76	10	0.005	0.012	0.07	0.	0.	0.021	0.	0.	0.013	0.065
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/11/69-08/26/76	10	0.	0.02	0.2	0.	0.004	0.063	0.	0.	0.	0.18
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/30/75-02/11/76	4	0.52	0.56	1.2	0.	0.389	0.624	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/30/75-02/11/76	4	0.	0.003	0.01	0.	0.	0.005	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/11/69-10/07/70	4	0.03	0.03	0.06	0.	0.001	0.024	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/11/69-08/26/76	10	0.04	0.038	0.07	0.	0.001	0.023	0.001	0.018	0.055	0.07
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/11/69-10/07/70	4	0.01	0.01	0.02	0.	0.	0.008	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/11/69-08/26/76	6	6700.	6000.	8100.	1800.	4884000.	2209.977	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/11/69-08/26/76	6	6550.	5833.333	7900.	1700.	4750666.667	2179.602	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/11/69-08/26/76	6	445.	420.783	559.9	154.9	20790.07	144.188	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/11/69-08/26/76	6	1350.	1192.317	1620.	333.9	205235.002	453.029	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/30/75-08/26/76	3	10000.	10500.	12000.	9500.	1750000.	1322.876	**	**	**	**
00931	SODIUM ADSORPTION RATIO	10/30/75-08/26/76	3	55.	57.	62.	54.	19.	4.359	**	**	**	**
00932	SODIUM, PERCENT	10/30/75-08/26/76	3	78.	77.333	78.	76.	1.333	1.155	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	09/11/69-10/07/70	3	9200.	8876.667	14900.	2530.	38332633.333	6191.335	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/30/75-08/26/76	3	350.	360.	400.	330.	1300.	36.056	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/11/69-08/26/76	6	17500.	16891.667	25800.	4550.	48674416.667	6976.705	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	09/11/69-08/26/76	6	2500.	2515.	3710.	780.	984230.	992.084	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/11/69-08/26/76	6	1.2	1.133	1.7	0.4	0.239	0.489	**	**	**	**

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

Parameter Inventory for Station: PAIS0050

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/11/69-08/26/76	7	2.6	3.729	8.7	1.2	6.772	2.602	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	09/11/69-10/07/70	3	3800.	3073.333	4500.	920.	3600133.333	1897.402	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/11/69-09/11/69	2	0.	0.	0.	0.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/11/69-09/11/69	2	0.	0.	0.	0.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	09/11/69-09/11/69	2	10.5	10.5	14.	7.	24.5	4.95	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	09/11/69-09/11/69	2	0.	0.	0.	0.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	09/11/69-09/11/69	2	4.	4.	5.	3.	2.	1.414	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/11/69-09/11/69	2	0.	0.	0.	0.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	09/11/69-09/11/69	2	6950.	6950.	11000.	2900.	32805000.	5727.565	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	09/11/69-09/11/69	2	15.	15.	20.	10.	50.	7.071	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	09/11/69-09/11/69	2	140.	140.	240.	40.	20000.	141.421	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/11/69-08/26/76	6	35200.	43616.667	83700.	29900.	423341666.667	20575.268	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/11/69-08/26/76	6	47.84	59.347	114.	40.7	786.375	28.042	**	**	**	**
71865	IODIDE (MG/L AS I)	09/11/69-10/07/70	3	0.06	0.083	0.15	0.04	0.003	0.059	**	**	**	**
71870	BROMIDE (MG/L AS BR)	09/11/69-10/07/70	3	56.	52.333	87.	14.	1342.333	36.638	**	**	**	**
71887	NITROGEN, TOTAL, AS NO3 - MG/L	10/30/75-02/11/76	4	2.3	2.475	5.3	0.	7.662	2.768	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: PAIS0050

				Total	Exceed	Prop.	----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------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.	31	3	0.10	19	3	0.16	12	0	0.00						
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	49	0	0.00	37	0	0.00	12	0	0.00						
00400	PH	Marine Chronic	8.5	47	22	0.47	35	22	0.63	12	0	0.00						
		Other-Lo Lim.	6.5	47	0	0.00	35	0	0.00	12	0	0.00						
01025	CADMIUM, DISSOLVED	Marine Acute	43.	2	0	0.00	2	0	0.00									
01040	COPPER, DISSOLVED	Marine Acute	2.9	2	2	1.00	2	2	1.00									
01049	LEAD, DISSOLVED	Marine Acute	220.	2	0	0.00	2	0	0.00									
01090	ZINC, DISSOLVED	Marine Acute	95.	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

Seasonal Analysis for Season #1: 5/01 to 10/31 - Station PAIS0050

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/23/68-08/26/76	42	6.5	8.048	18.	1.	35.412	5.951	1.	2.5	15.	17.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/23/68-08/26/76	40	27.2	26.665	29.7	22.	4.365	2.089	23.	25.775	28.2	29.46
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/23/68-08/26/76	40	50500.	50400.	77000.	16000.	163682051.282	12793.829	33000.	45000.	59000.	63900.
00300	OXYGEN, DISSOLVED MG/L	08/23/68-08/26/76	37	6.	6.081	9.3	4.2	1.787	1.337	4.58	4.9	6.85	8.36
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/23/68-08/26/76	37	89.	91.651	129.9	64.	291.25	17.066	71.8	78.	104.95	117.9
00400	PH (STANDARD UNITS)	08/23/68-08/26/76	35	8.5	8.549	9.	8.2	0.05	0.224	8.26	8.4	8.7	8.9
00400	CONVERTED PH (STANDARD UNITS)	08/23/68-08/26/76	35	8.5	8.495	9.	8.2	0.053	0.23	8.26	8.4	8.7	8.9
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/23/68-08/26/76	35	0.003	0.003	0.006	0.001	0.	0.002	0.001	0.002	0.004	0.006

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

Seasonal Analysis for Season #2: 11/01 to 4/30 - Station PAIS0050

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/23/68-08/26/76	12	7.5	8.	17.	1.	34.545	5.878	1.	2.	13.75	16.7
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/23/68-08/26/76	12	19.7	20.842	25.2	17.6	10.774	3.282	17.63	17.7	25.1	25.17
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/23/68-08/26/76	12	50000.	52666.667	58000.	50000.	15515151.515	3938.928	50000.	50000.	58000.	58000.
00300	OXYGEN, DISSOLVED MG/L	08/23/68-08/26/76	12	5.55	5.925	6.8	5.4	0.377	0.614	5.43	5.5	6.75	6.8
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/23/68-08/26/76	12	81.	81.	87.	75.	22.364	4.729	75.	75.75	86.5	87.
00400	PH (STANDARD UNITS)	08/23/68-08/26/76	12	8.3	8.275	8.3	8.2	0.002	0.045	8.2	8.225	8.3	8.3
00400	CONVERTED PH (STANDARD UNITS)	08/23/68-08/26/76	12	8.3	8.273	8.3	8.2	0.002	0.045	8.2	8.225	8.3	8.3
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/23/68-08/26/76	12	0.005	0.005	0.006	0.005	0.	0.001	0.005	0.005	0.006	0.006

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

Station Inventory for Station: PAIS0051

NPS Station ID: PAIS0051
LAT/LON: 26.879004/ -97.463170
Agency: 11NPSWRD
Date Created: 02/20/99
Location: LAND CUT TRANSECT 15 SITE 2
FIPS State/County: 48261 TEXAS/KENEDY
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_TWDB_15-2
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110207
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110207
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE POTRERO LOPENO NW TEXAS-KENEDY CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT TRANSECT 15 SITE 2 AT THE LAND CUT IN THE LAGUNA MADRE. DATA ARE FROM A SERIES OF YEARLY REPORTS (NUMBERS 117; 144; 171; AND 191) BY D. C. HAHL AND KARL W. RATZLAFF OF THE U.S. GEOLOGICAL SURVEY FOR THE TEXAS WATER DEVELOPMENT BOARD. THE REPORTS ARE TITLED "CHEMICAL AND PHYSICAL CHARACTERISTICS OF WATER IN ESTUARIES OF TEXAS SEPTEMBER 1967-SEPTEMBER 1968; OCTOBER 1968-SEPTEMBER 1969; OCTOBER 1969-SEPTEMBER 1970; AND OCTOBER 1970-SEPTEMBER 1971" AND WERE PUBLISHED IN MAY 1970; APRIL 1972; JUNE 1973; AND MAY 1975 RESPECTIVELY. THE PURPOSE OF THESE REPORTS WAS TO CREATE "A LONG-TERM RECORD OF THE CHEMICAL; PHYSICAL; AND HYDRAULIC CHARACTERISTICS OF THE TEXAS ESTUARINE SYSTEMS." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0051

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/23/68-10/07/70	17	6.	7.412	18.	1.	28.382	5.328	1.	3.5	10.	16.4
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/23/68-10/07/70	17	27.9	27.935	29.7	25.7	1.781	1.335	25.94	26.9	29.3	29.62
00078	TRANSPARENCY, SECCHI DISC (METERS)	08/23/68-09/11/69	2	0.95	0.95	1.83	0.07	1.549	1.245	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/23/68-10/07/70	17	50000.	48117.647	77000.	16000.	309235294.118	17585.087	17600.	37000.	60500.	69800.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/11/69-10/07/70	4	44200.	42625.	68100.	14000.	499275833.333	22344.481	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/23/68-10/07/70	17	6.3	6.453	9.3	4.3	2.88	1.697	4.54	4.7	7.9	9.14
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/23/68-10/07/70	17	110.	98.765	130.	70.	423.191	20.572	72.4	78.	116.5	121.2
00310	BOD, 5 DAY, 20 DEG C MG/L	09/11/69-10/07/70	4	1.1	1.175	1.8	0.7	0.269	0.519	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	08/23/68-10/07/70	17	8.7	8.618	8.9	8.2	0.063	0.251	8.2	8.45	8.85	8.9
00406	CONVERTED PH, FIELD, STANDARD UNITS	08/23/68-10/07/70	17	8.7	8.544	8.9	8.2	0.069	0.262	8.2	8.45	8.85	8.9
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/23/68-10/07/70	17	0.002	0.003	0.006	0.001	0.	0.002	0.001	0.001	0.004	0.006
00440	BICARBONATE ION (MG/L AS HCO3)	09/11/69-10/07/70	3	120.	103.	149.	40.	3187.	56.454	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/07/70-10/07/70	2 ##	0.04	0.04	0.08	0.	0.003	0.057	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/07/70-10/07/70	2	0.045	0.045	0.07	0.02	0.001	0.035	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/11/69-10/07/70	4 ##	0.	0.05	0.2	0.	0.01	0.1	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/11/69-10/07/70	4	0.015	0.015	0.03	0.	0.	0.013	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/11/69-10/07/70	4	0.01	0.01	0.02	0.	0.	0.008	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/11/69-09/11/69	2	4830.	4830.	7930.	1730.	19220000.	4384.062	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/11/69-10/07/70	3	400.	371.667	560.	155.	41608.333	203.981	**	**	**	**

** - Less than 9 observations ## - 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: PAIS0051

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/11/69-10/07/70	3	1400.	1118.	1620.	334.	473092.	687.817	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	09/11/69-10/07/70	3	9200.	8876.667	14900.	2530.	38332633.333	6191.335	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/11/69-09/11/69	2	15175.	15175.	25800.	4550.	225781250.	15026.019	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	10/07/70-10/07/70	1	17000.	17000.	17000.	17000.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	09/11/69-09/11/69	2	2245.	2245.	3710.	780.	4292450.	2071.823	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	10/07/70-10/07/70	1	2500.	2500.	2500.	2500.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/11/69-09/11/69	2	0.7	0.7	1.	0.4	0.18	0.424	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/11/69-10/07/70	4	2.1	2.35	4.	1.2	1.417	1.19	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	09/11/69-09/11/69	2	2710.	2710.	4500.	920.	6408200.	2531.442	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/11/69-09/11/69	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/11/69-09/11/69	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	09/11/69-09/11/69	2	10.5	10.5	14.	7.	24.5	4.95	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	09/11/69-09/11/69	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	09/11/69-09/11/69	2	4.	4.	5.	3.	2.	1.414	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/11/69-09/11/69	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01082	STRONTIUM, TOTAL (UG/L AS SR)	09/11/69-09/11/69	2	6950.	6950.	11000.	2900.	32805000.	5727.565	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	09/11/69-09/11/69	2	15.	15.	20.	10.	50.	7.071	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	09/11/69-09/11/69	2	140.	140.	240.	40.	20000.	141.421	**	**	**	**
46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	09/11/69-09/11/69	2	4905.	4905.	8050.	1760.	19782050.	4447.702	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/11/69-10/07/70	3	31000.	28690.	46700.	8370.	371299300.	19269.128	**	**	**	**
71865	IODIDE (MG/L AS I)	09/11/69-09/11/69	2	0.095	0.095	0.15	0.04	0.006	0.078	**	**	**	**
71870	BROMIDE (MG/L AS BR)	09/11/69-09/11/69	2	50.5	50.5	87.	14.	2664.5	51.619	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: PAIS0051

				Total	Exceed	Prop.	----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------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.	17	0	0.00	17	0	0.00									
00406	PH, FIELD	Marine Chronic	8.5	17	13	0.76	17	13	0.76									
		Other-Lo Lim.	6.5	17	0	0.00	17	0	0.00									
01025	CADMIUM, DISSOLVED	Marine Acute	43.	2	0	0.00	2	0	0.00									
01040	COPPER, DISSOLVED	Marine Acute	2.9	2	2	1.00	2	2	1.00									
01049	LEAD, DISSOLVED	Marine Acute	220.	2	0	0.00	2	0	0.00									
01090	ZINC, DISSOLVED	Marine Acute	95.	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: PAIS0052

NPS Station ID: PAIS0052
LAT/LON: 26.910727/ -97.459032
Agency: 11NPSWRD
Date Created: 02/20/99
Location: LAND CUT TRANSECT 14A SITE 2
FIPS State/County: 48261 TEXAS/KENEDY
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_TWDB_14A-2
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110207
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110207
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE POTRERO LOPENO NW TEXAS-KENEDY CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT TRANSECT 14A SITE 2 IN THE LAND CUT IN THE LAGUNA MADRE. DATA ARE FROM A SERIES OF YEARLY REPORTS (NUMBERS 117; 144; 171; AND 191) BY D. C. HAHL AND KARL W. RATZLAFF OF THE U.S. GEOLOGICAL SURVEY FOR THE TEXAS WATER DEVELOPMENT BOARD. THE REPORTS ARE TITLED "CHEMICAL AND PHYSICAL CHARACTERISTICS OF WATER IN ESTUARIES OF TEXAS SEPTEMBER 1967-SEPTEMBER 1968; OCTOBER 1968-SEPTEMBER 1969; OCTOBER 1969-SEPTEMBER 1970; AND OCTOBER 1970-SEPTEMBER 1971" AND WERE PUBLISHED IN MAY 1970; APRIL 1972; JUNE 1973; AND MAY 1975 RESPECTIVELY. THE PURPOSE OF THESE REPORTS WAS TO CREATE "A LONG-TERM RECORD OF THE CHEMICAL; PHYSICAL; AND HYDRAULIC CHARACTERISTICS OF THE TEXAS ESTUARINE SYSTEMS." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/11/69-09/11/69	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/11/69-09/11/69	1	27.3	27.3	27.3	27.3	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	09/11/69-09/11/69	1	6000.	6000.	6000.	6000.	0.	0.	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	09/11/69-09/11/69	1	8.5	8.5	8.5	8.5	0.	0.	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/11/69-09/11/69	1	108.	108.	108.	108.	0.	0.	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	09/11/69-09/11/69	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	09/11/69-09/11/69	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/11/69-09/11/69	1	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: PAIS0052

						----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------n/a----------		
Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE	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: PAIS0052

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	5/01-10/31 Obs	5/01-10/31 Exceed	5/01-10/31 Prop.	11/01-4/30 Obs	11/01-4/30 Exceed	11/01-4/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00406 PH, FIELD	Marine Chronic	8.5	1	1	1.00	1	1	1.00									
	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: PAIS0053

NPS Station ID: PAIS0053 LAT/LON: 26.953504/ -97.454560 Agency: 11NPSWRD Date Created: 02/27/99
Location: MARKER C-225A NORTH OF PORT MANSFIELD FIPS State/County: 48261 TEXAS/KENEDY
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): PAIS_2491_600
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110207 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110207 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE POTRERO LOPENO NW; TEXAS-KENEDY CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT MARKER C-225A ON THE INTRACOASTAL WATERWAY NORTH OF PORT MANSFIELD. DATA ARE FROM A REPORT BY STEVE WARSHAW OF THE TEXAS WATER QUALITY BOARD; "WATER QUALITY SEGMENT REPORT FOR SEGMENT NO. 2491 LAGUNA MADRE;" JUNE 1975. "THE REPORT IS DESIGNED TO DESCRIBE PREVAILING WATER QUALITY IN A SEGMENT AND TO PROVIDE A BASIS FOR DECISION MAKING IN THE CONTINUING EFFORT TO MAINTAIN AND IMPROVE THE QUALITY OF TEXAS' SURFACE WATERS." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0053

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	02/23/72-09/17/74	9	78.	75.244	83.3	55.9	84.77	9.207	55.9	68.5	82.	83.3
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/23/72-09/17/74	10	61936.	63386.4	94080.	37632.	263553934.933	16234.344	38376.8	53354.	75152.	92422.4
00300	OXYGEN, DISSOLVED MG/L	02/23/72-09/17/74	10	6.55	6.35	8.	4.8	1.114	1.055	4.84	5.425	7.125	7.95
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	02/23/72-09/17/74	9	88.	86.	111.	67.	173.5	13.172	67.	75.5	93.5	111.
00400	PH (STANDARD UNITS)	02/23/72-09/17/74	10	8.35	8.41	9.	7.8	0.168	0.409	7.81	8.125	8.825	8.99
00400	CONVERTED PH (STANDARD UNITS)	02/23/72-09/17/74	10	8.347	8.249	9.	7.8	0.197	0.443	7.81	8.125	8.825	8.99
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/23/72-09/17/74	10	0.004	0.006	0.016	0.001	0.	0.005	0.001	0.002	0.008	0.016
00612	AMMONIA, UNIONZED (MG/L AS N)	02/23/72-09/17/74	10 ##	0.05	0.145	0.6	0.05	0.033	0.182	0.05	0.05	0.225	0.57
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/23/72-09/17/74	10 ##	0.015	0.027	0.09	0.015	0.001	0.026	0.015	0.015	0.026	0.087
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	02/23/72-09/17/74	10	0.085	0.11	0.25	0.04	0.005	0.072	0.04	0.063	0.145	0.247
32230	CHLOROPHYLL A (MG/L)	02/23/72-09/17/74	9	0.007	0.016	0.07	0.002	0.001	0.023	0.002	0.002	0.026	0.07

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

EPA Water Quality Criteria Analysis for Station: PAIS0053

				Total	Exceed	Prop.	----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------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.	10	0	0.00	6	0	0.00	4	0	0.00						
00400	PH	Marine Chronic	8.5	10	4	0.40	6	3	0.50	4	1	0.25						
		Other-Lo Lim.	6.5	10	0	0.00	6	0	0.00	4	0	0.00						

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

EPA Water Quality Criteria Analysis for Station: PAIS0053

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------5/01-10/31---------- Obs	Exceed	Prop.	----------11/01-4/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.

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

Station Inventory for Station: PAIS0054

NPS Station ID: PAIS0054
LAT/LON: 26.982504/ -97.437781
Agency: 112WRD
Date Created: 05/03/80
Location: 1214501LAGUNA MADRE ES LINE 145 SITE 01
FIPS State/County: 48261 TEXAS/KENEDY
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): 265857097261600
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110207
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 12110207001
RF1 Mile Point: 25.780
Distance from RF1: 13.40
On/Off RF1: ON
RF3 Index: 12110207130500.00
RF3 Mile Point: 7.41
Distance from RF3: 0.09
On/Off RF3:
Description:

Parameter Inventory for Station: PAIS0054

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/26/68-03/30/82	16	1.5	2.375	6.	1.	3.183	1.784	1.	1.	4.	5.3
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/68-03/30/82	16	25.5	24.106	29.3	15.	24.547	4.955	15.	19.875	28.75	29.02
00078	TRANSPARENCY, SECCHI DISC (METERS)	08/26/68-03/30/82	7	0.61	0.701	1.47	0.24	0.156	0.395	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/26/68-03/30/82	16	46000.	47793.75	58000.	36900.	42069958.333	6486.136	37670.	45000.	53000.	56600.
00300	OXYGEN, DISSOLVED MG/L	08/26/68-03/30/82	16	6.35	6.137	8.5	3.	3.209	1.791	3.	4.675	7.85	8.36
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/26/68-03/30/82	16	94.	88.119	137.	38.	680.186	26.08	38.	73.75	99.25	129.3
00400	PH (STANDARD UNITS)	08/26/68-03/30/82	16	8.3	8.233	8.5	7.71	0.061	0.247	7.71	8.075	8.4	8.5
00400	CONVERTED PH (STANDARD UNITS)	08/26/68-03/30/82	16	8.3	8.154	8.5	7.71	0.068	0.26	7.71	8.075	8.4	8.5
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/26/68-03/30/82	16	0.005	0.007	0.019	0.003	0.	0.005	0.003	0.004	0.009	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

EPA Water Quality Criteria Analysis for Station: PAIS0054

				Total	Exceed	Prop.	----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------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.	16	2	0.13	8	0	0.00	8	2	0.25						
00400	PH	Marine Chronic	8.5	16	2	0.13	8	2	0.25	8	0	0.00						
		Other-Lo Lim.	6.5	16	0	0.00	8	0	0.00	8	0	0.00						

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

Station Inventory for Station: PAIS0055

NPS Station ID: PAIS0055
LAT/LON: 26.982504/ -97.450559
Agency: 112WRD
Date Created: 06/29/78
Location: 1214502LAGUNA MADRE ES LINE 145 SITE 02
FIPS State/County: 48261 TEXAS/KENEDY
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): 265857097270200
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110207
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 12110207001
RF1 Mile Point: 25.780
Distance from RF1: 1.70
On/Off RF1: ON
RF3 Index: 12110205002600.00
RF3 Mile Point: 6.69
Distance from RF3: 0.40
On/Off RF3:
Description:

Parameter Inventory for Station: PAIS0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/26/68-03/30/82	61	8.	8.066	19.	1.	35.362	5.947	1.	1.	14.	17.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/68-03/30/82	61	26.6	24.03	30.	8.5	37.855	6.153	12.5	20.	28.55	29.48
00070	TURBIDITY, (JACKSON CANDLE UNITS)	09/27/72-04/24/74	8	7.5	13.125	50.	0.	306.696	17.513	**	**	**	**
00078	TRANSPARENCY, SECCHI DISC (METERS)	09/11/69-03/30/82	11	0.69	0.733	1.37	0.25	0.108	0.328	0.286	0.43	1.	1.312
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/26/68-03/30/82	61	50000.	50622.951	73000.	26000.	118609131.148	10890.782	35860.	44250.	58250.	67600.
00300p	OXYGEN, DISSOLVED MG/L	08/26/68-03/30/82	61	6.5	6.716	10.1	3.3	2.68	1.637	4.9	5.7	7.85	9.
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/26/68-03/30/82	61	91.	97.193	161.9	54.	650.291	25.501	72.4	83.5	100.5	144.7
00400p	PH (STANDARD UNITS)	08/26/68-03/30/82	61	8.4	8.405	8.9	8.1	0.041	0.203	8.2	8.21	8.5	8.7
00400p	CONVERTED PH (STANDARD UNITS)	08/26/68-03/30/82	61	8.4	8.363	8.9	8.1	0.043	0.208	8.2	8.21	8.5	8.7
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/26/68-03/30/82	61	0.004	0.004	0.008	0.001	0.	0.002	0.002	0.003	0.006	0.006
00600	NITROGEN, TOTAL (MG/L AS N)	02/01/77-03/24/81	8	1.1	1.074	1.8	0.3	0.187	0.432	**	**	**	**
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	02/01/77-03/30/82	9	1.	0.972	1.4	0.27	0.116	0.341	0.27	0.825	1.25	1.4
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/01/77-03/30/82	10	0.05	0.093	0.41	0.02	0.015	0.12	0.021	0.03	0.09	0.387
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	02/01/77-03/30/82	10	0.01	0.016	0.09	0.	0.001	0.027	0.	0.004	0.013	0.083
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/01/77-03/24/81	8	0.005	0.023	0.14	0.	0.002	0.048	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	02/01/77-03/30/82	10	1.1	1.127	1.6	0.3	0.152	0.389	0.352	0.918	1.45	1.6
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	02/01/77-03/30/82	10	0.015	0.044	0.23	0.	0.005	0.068	0.001	0.01	0.05	0.212
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	04/11/79-04/11/79	1	0.09	0.09	0.09	0.09	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	02/01/77-03/30/82	10	0.05	0.046	0.08	0.005	0.	0.021	0.008	0.03	0.06	0.078
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	02/01/77-03/30/82	10	7.9	10.27	42.	2.5	130.033	11.403	2.55	5.25	8.975	38.78
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	04/11/79-11/18/80	4	0.065	0.06	0.07	0.04	0.	0.014	**	**	**	**
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	04/11/79-12/15/81	6	0.15	0.135	0.18	0.09	0.001	0.037	**	**	**	**
71887	NITROGEN, TOTAL, AS NO3 - MG/L	02/01/77-03/24/81	8	4.9	4.8	8.1	1.3	3.803	1.95	**	**	**	**

** - 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 time series plot

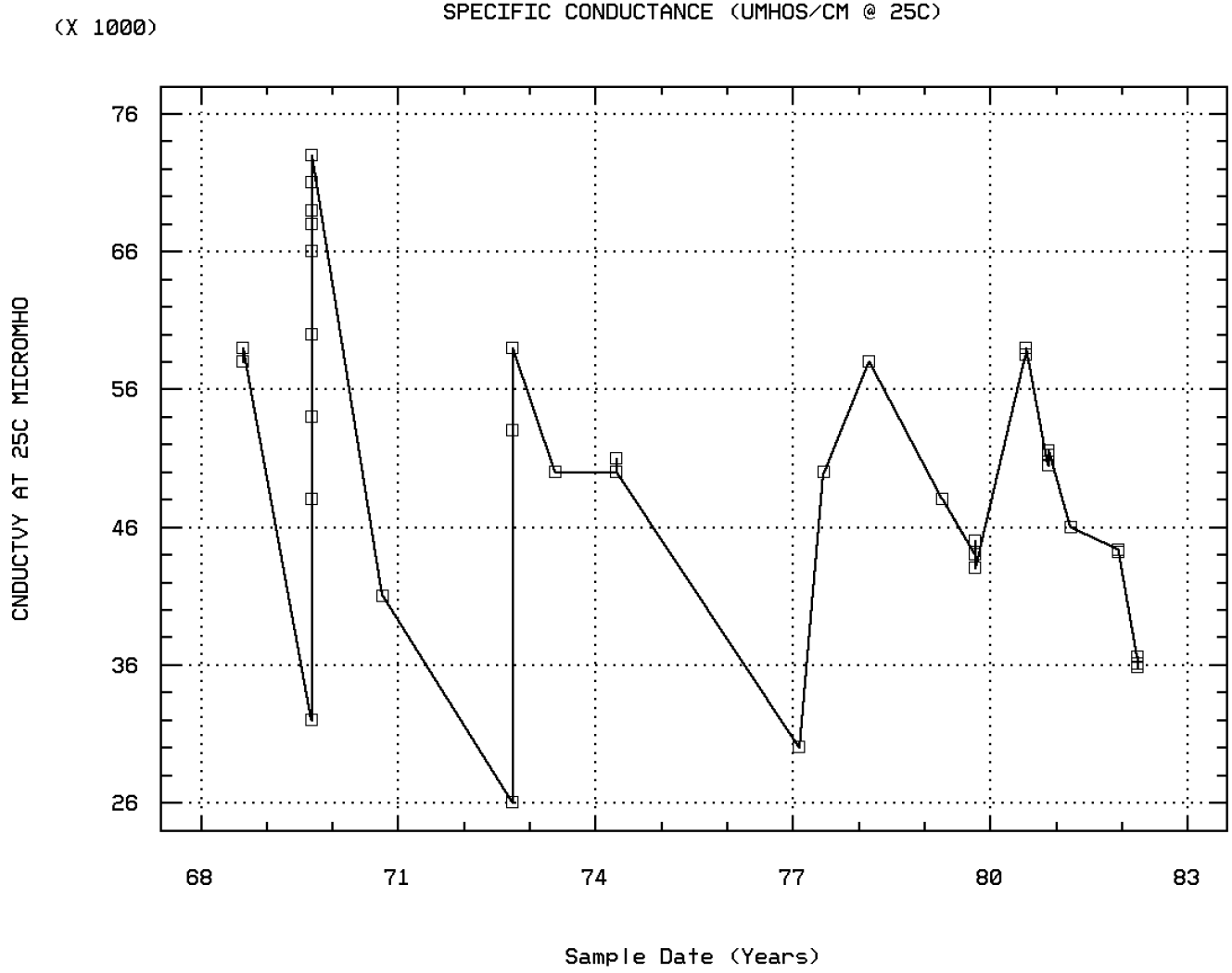
EPA Water Quality Criteria Analysis for Station: PAIS0055

				Total	Exceed	Prop.	----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------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.	8	1	0.13	4	0	0.00	4	1	0.25						
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	61	4	0.07	37	4	0.11	24	0	0.00						
00400	PH	Marine Chronic	8.5	61	21	0.34	37	21	0.57	24	0	0.00						
		Other-Lo Lim.	6.5	61	0	0.00	37	0	0.00	24	0	0.00						

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

Station: PAIS0055 Parameter Code: 00095

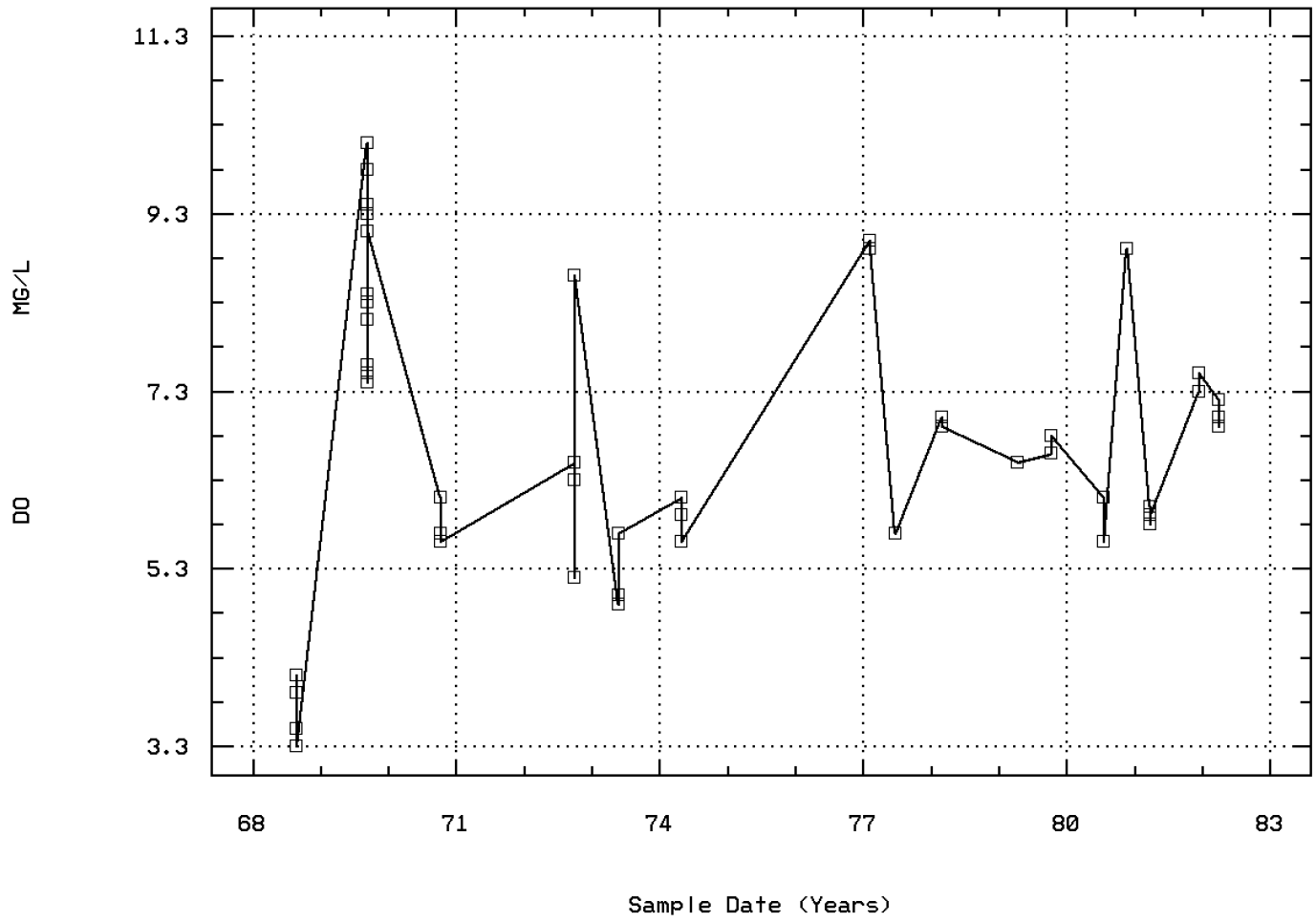
SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)



1214502LAGUNA MADRE ES LINE 145 SITE 02

Station: PAIS0055 Parameter Code: 00300

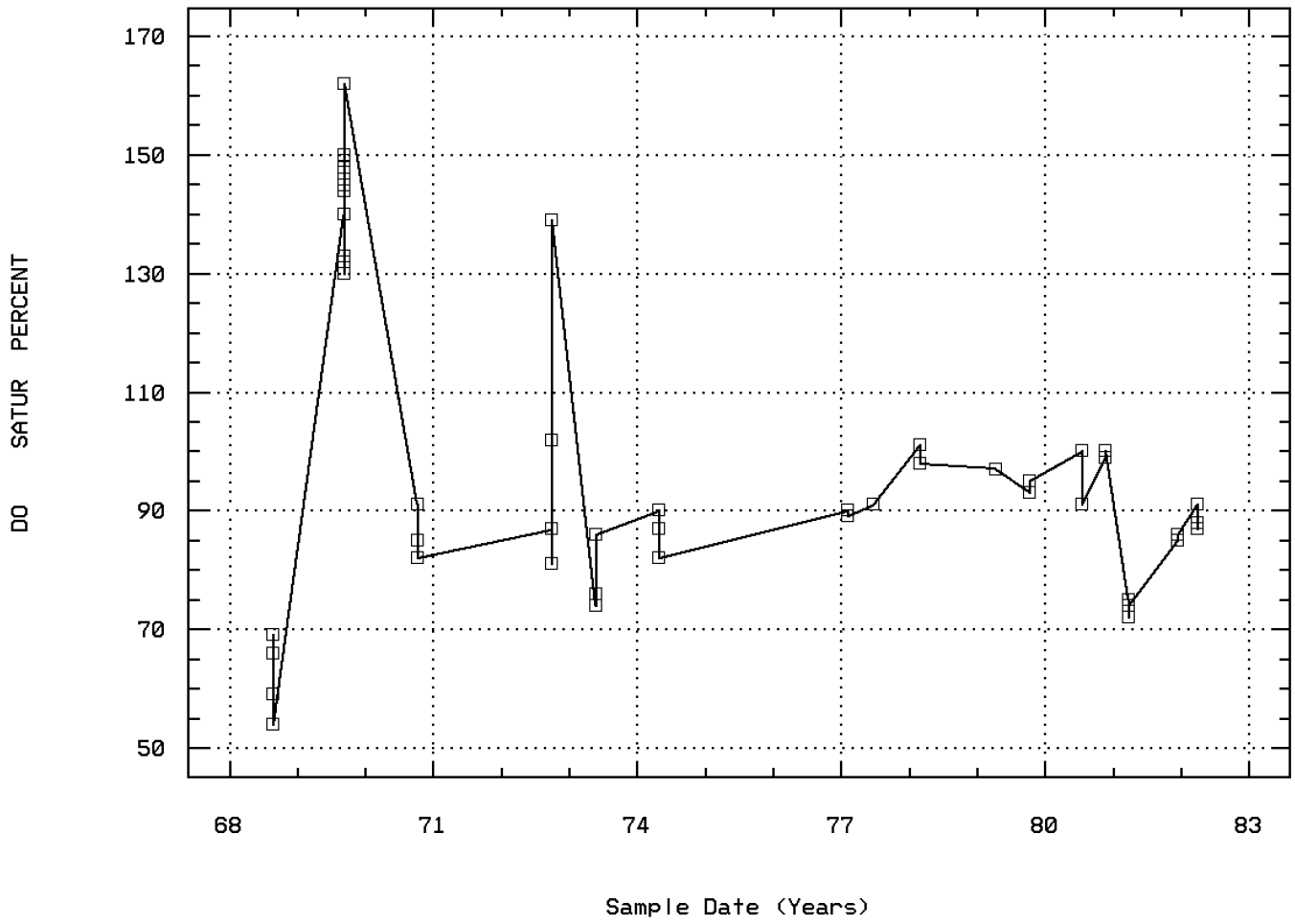
OXYGEN, DISSOLVED



1214502LAGUNA MADRE ES LINE 145 SITE 02

Station: PAIS0055 Parameter Code: 00301

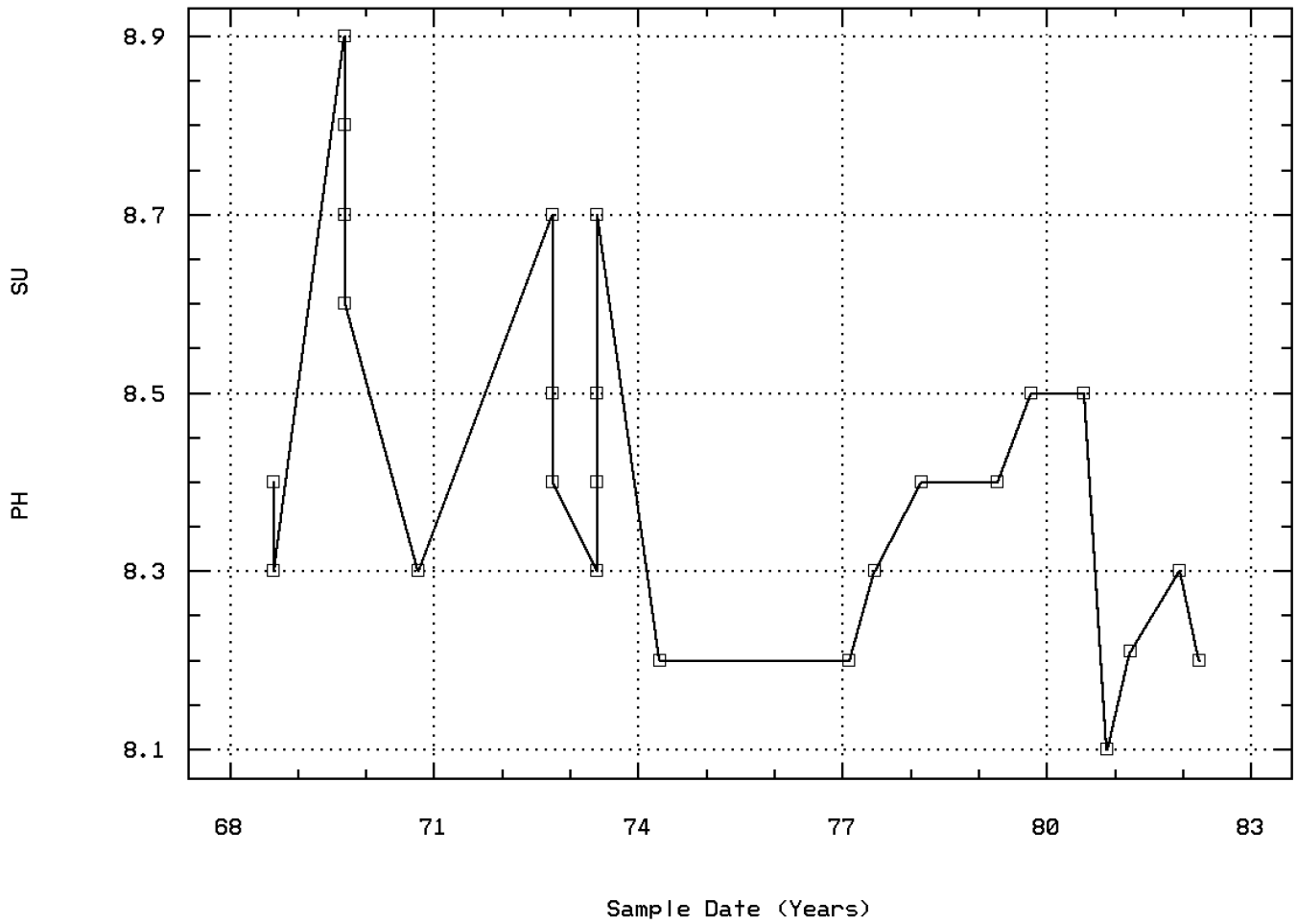
OXYGEN, DISSOLVED, PERCENT OF SATURATIO



1214502LAGUNA MADRE ES LINE 145 SITE 02

Station: PAIS0055 Parameter Code: 00400

PH (STANDARD UNITS)



1214502LAGUNA MADRE ES LINE 145 SITE 02

Seasonal Analysis for Season #1: 5/01 to 10/31 - Station PAIS0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/26/68-03/30/82	37	7.	7.973	18.	1.	33.416	5.781	1.	2.5	14.5	17.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/68-03/30/82	37	28.2	28.003	30.	25.	1.762	1.327	26.12	27.45	29.	29.5
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/26/68-03/30/82	37	54000.	53905.405	73000.	26000.	123608858.859	11117.952	41000.	46500.	59000.	69400.
00300	OXYGEN, DISSOLVED MG/L	08/26/68-03/30/82	37	6.1	6.422	10.1	3.3	3.373	1.837	3.82	5.4	7.85	9.32
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/26/68-03/30/82	37	91.	102.022	161.9	54.	977.297	31.262	64.6	81.5	135.95	148.1
00400	PH (STANDARD UNITS)	08/26/68-03/30/82	37	8.5	8.511	8.9	8.3	0.034	0.184	8.3	8.3	8.7	8.8
00400	CONVERTED PH (STANDARD UNITS)	08/26/68-03/30/82	37	8.5	8.476	8.9	8.3	0.035	0.187	8.3	8.3	8.7	8.8
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/26/68-03/30/82	37	0.003	0.003	0.005	0.001	0.	0.001	0.002	0.002	0.005	0.005

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

Seasonal Analysis for Season #2: 11/01 to 4/30 - Station PAIS0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/26/68-03/30/82	24	8.	8.208	19.	1.	39.911	6.318	1.	1.	14.	17.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/68-03/30/82	24	18.5	17.904	25.3	8.5	31.448	5.608	8.5	12.625	23.5	25.25
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/26/68-03/30/82	24	47000.	45562.5	58000.	30000.	71885923.913	8478.557	30000.	38500.	50875.	58000.
00300	OXYGEN, DISSOLVED MG/L	08/26/68-03/30/82	24	7.	7.171	9.	5.6	1.355	1.164	5.85	6.1	8.55	8.95
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/26/68-03/30/82	24	90.	89.75	101.	72.	71.413	8.451	74.5	85.25	97.75	100.5
00400	PH (STANDARD UNITS)	08/26/68-03/30/82	24	8.2	8.243	8.4	8.1	0.009	0.097	8.1	8.2	8.3	8.4
00400	CONVERTED PH (STANDARD UNITS)	08/26/68-03/30/82	24	8.2	8.233	8.4	8.1	0.009	0.097	8.1	8.2	8.3	8.4
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/26/68-03/30/82	24	0.006	0.006	0.008	0.004	0.	0.001	0.004	0.005	0.006	0.008

** - Less than 9 observations ## - Computed 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: PAIS0056

NPS Station ID: PAIS0056
LAT/LON: 26.983003/ -97.451837
Agency: 11NPSWRD
Date Created: 02/20/99
Location: LAND CUT TRANSECT 14 SITE 2
FIPS State/County: 48261 TEXAS/KENEDY
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_TWDB_14-2
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110207
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110207
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE POTRERO LOPENO NW TEXAS-KENEDY CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT TRANSECT 14 SITE 2 AT THE LAND CUT IN THE LAGUNA MADRE. DATA ARE FROM A SERIES OF YEARLY REPORTS (NUMBERS 117; 144; 171; AND 191) BY D. C. HAHL AND KARL W. RATZLAFF OF THE U.S. GEOLOGICAL SURVEY FOR THE TEXAS WATER DEVELOPMENT BOARD. THE REPORTS ARE TITLED "CHEMICAL AND PHYSICAL CHARACTERISTICS OF WATER IN ESTUARIES OF TEXAS SEPTEMBER 1967-SEPTEMBER 1968; OCTOBER 1968-SEPTEMBER 1969; OCTOBER 1969-SEPTEMBER 1970; AND OCTOBER 1970-SEPTEMBER 1971" AND WERE PUBLISHED IN MAY 1970; APRIL 1972; JUNE 1973; AND MAY 1975 RESPECTIVELY. THE PURPOSE OF THESE REPORTS WAS TO CREATE "A LONG-TERM RECORD OF THE CHEMICAL; PHYSICAL; AND HYDRAULIC CHARACTERISTICS OF THE TEXAS ESTUARINE SYSTEMS." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0056

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/26/68-10/07/70	20	6.5	8.	18.	1.	33.053	5.749	1.	3.25	13.75	17.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/68-10/07/70	20	28.7	28.69	29.5	27.4	0.36	0.6	27.83	28.225	29.3	29.5
00078	TRANSPARENCY, SECCHI DISC (METERS)	09/11/69-09/11/69	1	0.08	0.08	0.08	0.08	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/26/68-10/07/70	20	58500.	56950.	73000.	32000.	155628947.368	12475.133	41000.	42750.	68750.	72800.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/26/68-10/07/70	20	7.45	6.805	10.1	3.3	5.361	2.315	3.32	4.475	8.925	9.76
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/26/68-10/07/70	20	131.	111.05	162.	54.	1488.471	38.581	54.5	72.25	145.75	149.9
00406	PH, FIELD, STANDARD UNITS SU	08/26/68-10/07/70	20	8.65	8.555	8.9	8.3	0.047	0.216	8.3	8.3	8.7	8.8
00406	CONVERTED PH, FIELD, STANDARD UNITS	08/26/68-10/07/70	20	8.647	8.505	8.9	8.3	0.049	0.222	8.3	8.3	8.7	8.8
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/26/68-10/07/70	20	0.002	0.003	0.005	0.001	0.	0.001	0.002	0.002	0.005	0.005

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

EPA Water Quality Criteria Analysis for Station: PAIS0056

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	5/01-10/31 Obs	5/01-10/31 Exceed	5/01-10/31 Prop.	11/01-4/30 Obs	11/01-4/30 Exceed	11/01-4/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	20	4	0.20	20	4	0.20									
00406	PH, FIELD	Marine Chronic	8.5	20	11	0.55	20	11	0.55									
		Other-Lo Lim.	6.5	20	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

Station Inventory for Station: PAIS0057

NPS Station ID: PAIS0057
LAT/LON: 26.983115/ -97.436893
Agency: 11NPSWRD
Date Created: 02/20/99
Location: LAND CUT TRANSECT 14 SITE 1
FIPS State/County: 48261 TEXAS/KENEDY
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_TWDB_14-1
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110207
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110207
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE POTRERO LOPENO NW TEXAS-KENEDY CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT TRANSECT 14 SITE 1 AT THE LAND CUT IN THE LAGUNA MADRE. DATA ARE FROM A SERIES OF YEARLY REPORTS (NUMBERS 117; 144; 171; AND 191) BY D. C. HAHL AND KARL W. RATZLAFF OF THE U.S. GEOLOGICAL SURVEY FOR THE TEXAS WATER DEVELOPMENT BOARD. THE REPORTS ARE TITLED "CHEMICAL AND PHYSICAL CHARACTERISTICS OF WATER IN ESTUARIES OF TEXAS SEPTEMBER 1967-SEPTEMBER 1968; OCTOBER 1968-SEPTEMBER 1969; OCTOBER 1969-SEPTEMBER 1970; AND OCTOBER 1970-SEPTEMBER 1971" AND WERE PUBLISHED IN MAY 1970; APRIL 1972; JUNE 1973; AND MAY 1975 RESPECTIVELY. THE PURPOSE OF THESE REPORTS WAS TO CREATE "A LONG-TERM RECORD OF THE CHEMICAL; PHYSICAL; AND HYDRAULIC CHARACTERISTICS OF THE TEXAS ESTUARINE SYSTEMS." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/26/68-10/07/70	4	3.	3.25	6.	1.	6.917	2.63	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/68-10/07/70	4	28.9	29.	29.3	28.9	0.04	0.2	**	**	**	**
00078	TRANSPARENCY, SECCHI DISC (METERS)	08/26/68-10/07/70	2	1.155	1.155	1.47	0.84	0.198	0.445	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/26/68-10/07/70	4	51000.	49500.	58000.	38000.	86333333.333	9291.573	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/26/68-10/07/70	4	5.45	5.55	6.9	4.4	1.257	1.121	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/26/68-10/07/70	4	87.	87.25	103.	72.	192.917	13.889	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	08/26/68-10/07/70	4	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	08/26/68-10/07/70	4	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/26/68-10/07/70	4	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: PAIS0057

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	5/01-10/31 Obs	5/01-10/31 Exceed	5/01-10/31 Prop.	11/01-4/30 Obs	11/01-4/30 Exceed	11/01-4/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	4	0	0.00	4	0	0.00									
00406	PH, FIELD	Marine Chronic	8.5	4	0	0.00	4	0	0.00									
		Other-Lo Lim.	6.5	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: PAIS0058

NPS Station ID: PAIS0058
LAT/LON: 26.992865/ -97.425588
Agency: 11NPSWRD
Date Created: 04/03/99
Location: LAGUNA MADRE
FIPS State/County: 48261 TEXAS/KENEDY
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_KAH_2491
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110207
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110207
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE POTRERO LOPENO NW; TEXAS-KENEDY COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT LAGUNA MADRE. DATA ARE FROM A REPORT BY RONALD A. KAISER AND OTHERS; "A STUDY OF THE ADEQUACY OF TEXAS WATER QUALITY STANDARDS FOR PROTECTING THE WATER AND WATER-RELATED RESOURCES OF THE NINE UNITS OF THE NATIONAL PARK SYSTEM IN TEXAS;" AUGUST 1993. THE PURPOSE OF THIS REPORT WAS "TO DEVELOP A METHODOLOGY FOR DETERMINING WHETHER EXISTING STATE WATER QUALITY STANDARDS ADEQUATELY PROTECT THE WATER AND WATER RELATED RESOURCES OF THE UNITS OF THE NATIONAL PARK SYSTEM." THE DATA WERE AVERAGED FOR THE ENTIRE LAGUNA OVER A FOUR YEAR PERIOD. DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0058

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: PAIS0059

NPS Station ID: PAIS0059
LAT/LON: 27.074253/ -97.422059
Agency: 11NPSWRD
Date Created: 06/12/99
Location: STATION 203E IN THE LAGUNA MADRE
FIPS State/County: 48261 TEXAS/KENEDY
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SMEV_203E
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110207
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110207
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE POTRERO CORTADO TEXAS-KENEDY CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 203E IN THE LAGUNA MADRE. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0059

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/05/75-11/05/75	1	25.5	25.5	25.5	25.5	0.	0.	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	11/05/75-11/05/75	1	28.3	28.3	28.3	28.3	0.	0.	**	**	**	**

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

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

Station Inventory for Station: PAIS0060

NPS Station ID: PAIS0060
LAT/LON: 27.075365/ -97.443504
Agency: 11NPSWRD
Date Created: 06/12/99
Location: STATION 203D IN THE LAGUNA MADRE
FIPS State/County: 48261 TEXAS/KENEDY
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SMEV_203D
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110207
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110207
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE POTRERO CORTADO TEXAS-KENEDY CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 203D IN THE LAGUNA MADRE. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0060

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/05/75-11/05/75	1	27.8	27.8	27.8	27.8	0.	0.	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	11/05/75-11/05/75	1	26.7	26.7	26.7	26.7	0.	0.	**	**	**	**

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

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

Station Inventory for Station: PAIS0061

NPS Station ID: PAIS0061
LAT/LON: 27.100892/ -97.431254
Agency: 11NPSWRD
Date Created: 02/20/99
Location: LAND CUT TRANSECT 13 SITE 1
FIPS State/County: 48261 TEXAS/KENEDY
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_TWDB_13-1
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110207
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110207
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE POTRERO CORTADO TEXAS-KENEDY CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT TRANSECT 13 SITE 1 AT THE LAND CUT IN THE LAGUNA MADRE. DATA ARE FROM A SERIES OF YEARLY REPORTS (NUMBERS 117; 144; 171; AND 191) BY D. C. HAHL AND KARL W. RATZLAFF OF THE U.S. GEOLOGICAL SURVEY FOR THE TEXAS WATER DEVELOPMENT BOARD. THE REPORTS ARE TITLED "CHEMICAL AND PHYSICAL CHARACTERISTICS OF WATER IN ESTUARIES OF TEXAS SEPTEMBER 1967-SEPTEMBER 1968; OCTOBER 1968-SEPTEMBER 1969; OCTOBER 1969-SEPTEMBER 1970; AND OCTOBER 1970-SEPTEMBER 1971" AND WERE PUBLISHED IN MAY 1970; APRIL 1972; JUNE 1973; AND MAY 1975 RESPECTIVELY. THE PURPOSE OF THESE REPORTS WAS TO CREATE "A LONG-TERM RECORD OF THE CHEMICAL; PHYSICAL; AND HYDRAULIC CHARACTERISTICS OF THE TEXAS ESTUARINE SYSTEMS." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0061

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/26/68-10/07/70	7	2.	2.314	6.	0.2	4.091	2.023	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/68-10/07/70	7	29.	28.643	29.8	27.1	1.176	1.085	**	**	**	**
00078	TRANSPARENCY, SECCHI DISC (METERS)	09/11/69-10/07/70	3	0.05	0.22	0.56	0.05	0.087	0.294	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/26/68-10/07/70	7	56000.	55000.	69000.	42000.	106000000.	10295.63	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/26/68-10/07/70	7	5.6	6.9	9.9	5.	4.787	2.188	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/26/68-10/07/70	7	95.	113.857	174.	74.	1763.81	41.998	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	08/26/68-08/26/68	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	08/26/68-10/07/70	7	8.5	8.529	8.8	8.2	0.052	0.229	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	08/26/68-10/07/70	7	8.5	8.477	8.8	8.2	0.055	0.235	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/26/68-10/07/70	7	0.003	0.003	0.006	0.002	0.	0.002	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	08/26/68-08/26/68	1	0.07	0.07	0.07	0.07	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	08/26/68-08/26/68	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	08/26/68-08/26/68	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/26/68-08/26/68	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	08/26/68-08/26/68	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: PAIS0061

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	5/01-10/31 Obs	5/01-10/31 Exceed	5/01-10/31 Prop.	11/01-4/30 Obs	11/01-4/30 Exceed	11/01-4/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	7	0	0.00	7	0	0.00									
00406	PH, FIELD	Marine Chronic	8.5	7	5	0.71	7	5	0.71									
		Other-Lo Lim.	6.5	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: PAIS0062

NPS Station ID: PAIS0062
LAT/LON: 27.101392/ -97.423338
Agency: 112WRD
Date Created: 04/18/81
Location: 1213401LAGUNA MADRE ES LINE 134 SITE 01
FIPS State/County: 48261 TEXAS/KENEDY
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): 270605097252400
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110207
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 12110207
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110207107700.00
RF3 Mile Point: 0.00
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: PAIS0062

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/26/68-06/04/75	16	1.5	2.325	6.	0.2	3.503	1.872	0.76	1.	4.	6.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/68-06/04/75	16	27.9	26.431	29.8	17.9	13.957	3.736	17.97	24.475	28.925	29.66
00070	TURBIDITY, (JACKSON CANDLE UNITS)	10/23/74-06/04/75	6	47.5	42.5	60.	20.	217.5	14.748	**	**	**	**
00078	TRANSPARENCY, SECCHI DISC (METERS)	09/11/69-06/04/75	8	0.515	0.91	3.9	0.23	1.475	1.215	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/26/68-06/04/75	16	52000.	54750.	69000.	42000.	85800000.	9262.829	42700.	47250.	64750.	69000.
00300	OXYGEN, DISSOLVED MG/L	08/26/68-02/05/75	14	6.3	6.85	9.9	4.5	3.346	1.829	4.75	5.175	8.725	9.75
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/26/68-02/05/75	14	96.	107.186	173.9	71.	1186.043	34.439	72.5	78.	134.	169.9
00310	BOD, 5 DAY, 20 DEG C MG/L	08/26/68-08/26/68	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/26/68-06/04/75	14	8.5	8.493	8.8	8.2	0.048	0.22	8.2	8.275	8.65	8.8
00400	CONVERTED PH (STANDARD UNITS)	08/26/68-06/04/75	14	8.5	8.443	8.8	8.2	0.051	0.226	8.2	8.275	8.65	8.8
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/26/68-06/04/75	14	0.003	0.004	0.006	0.002	0.	0.002	0.002	0.002	0.005	0.006
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/26/68-08/26/68	1	0.26	0.26	0.26	0.26	0.	0.	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/26/68-08/26/68	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/26/68-08/26/68	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	08/26/68-08/26/68	1	0.12	0.12	0.12	0.12	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/26/68-08/26/68	1	0.07	0.07	0.07	0.07	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/26/68-08/26/68	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: PAIS0062

				Total	Exceed	Prop.	----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------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.	6	3	0.50	4	3	0.75	2	0	0.00						
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	14	0	0.00	12	0	0.00	2	0	0.00						
00400	PH	Marine Chronic	8.5	14	8	0.57	12	8	0.67	2	0	0.00						
		Other-Lo Lim.	6.5	14	0	0.00	12	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

Seasonal Analysis for Season #1: 5/01 to 10/31 - Station PAIS0062

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/26/68-06/04/75	14	1.5	2.157	6.	0.2	2.838	1.685	0.6	1.	4.	5.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/68-06/04/75	14	28.2	27.643	29.8	24.	3.456	1.859	24.	26.8	29.025	29.7
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/26/68-06/04/75	14	54500.	55285.714	69000.	42000.	96527472.527	9824.84	42500.	46750.	66500.	69000.
00400	PH (STANDARD UNITS)	08/26/68-06/04/75	12	8.55	8.542	8.8	8.2	0.039	0.198	8.23	8.4	8.75	8.8
00400	CONVERTED PH (STANDARD UNITS)	08/26/68-06/04/75	12	8.547	8.501	8.8	8.2	0.041	0.202	8.23	8.4	8.75	8.8
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/26/68-06/04/75	12	0.003	0.003	0.006	0.002	0.	0.001	0.002	0.002	0.004	0.006

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

Seasonal Analysis for Season #2: 11/01 to 4/30 - Station PAIS0062

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/26/68-06/04/75	2	3.5	3.5	6.	1.	12.5	3.536	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/68-06/04/75	2	17.95	17.95	18.	17.9	0.005	0.071	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/26/68-06/04/75	2	51000.	51000.	51000.	51000.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/26/68-06/04/75	2	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/26/68-06/04/75	2	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/26/68-06/04/75	2	0.006	0.006	0.006	0.006	0.	0.	**	**	**	**

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

Station Inventory for Station: PAIS0063

NPS Station ID: PAIS0063
LAT/LON: 27.101392/ -97.442226
Agency: 112WRD
Date Created: 04/18/81
Location: 1213402LAGUNA MADRE ES LINE 134 SITE 02
FIPS State/County: 48261 TEXAS/KENEDY
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): 270605097263200
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110207
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 12110207001
RF1 Mile Point: 11.780
Distance from RF1: 18.20
On/Off RF1: ON
RF3 Index: 12110207078600.00
RF3 Mile Point: 0.11
Distance from RF3: 0.05
On/Off RF3:
Description:

Parameter Inventory for Station: PAIS0063

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/26/68-06/04/75	43	7.	7.698	17.	1.	28.359	5.325	1.	1.	13.	15.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/68-06/04/75	43	26.9	25.949	29.9	18.5	10.488	3.238	20.16	23.5	28.8	29.34
00070	TURBIDITY, (JACKSON CANDLE UNITS)	09/27/72-06/04/75	22	11.	12.318	20.	4.	40.323	6.35	5.	5.	20.	20.
00078	TRANSPARENCY, SECCHI DISC (METERS)	09/11/69-06/04/75	9	1.07	2.269	12.5	0.65	14.784	3.845	0.65	0.77	1.345	12.5
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/26/68-06/04/75	43	50000.	51930.233	75000.	26000.	150590254.707	12271.522	34600.	46000.	58000.	70600.
00300	OXYGEN, DISSOLVED MG/L	08/26/68-06/04/75	43	5.7	6.419	10.5	4.6	2.29	1.513	5.1	5.3	7.5	8.9
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/26/68-06/04/75	43	91.	95.937	145.9	75.	352.893	18.785	77.4	81.	99.	128.74
00310	BOD, 5 DAY, 20 DEG C MG/L	08/26/68-08/26/68	2	0.9	0.9	1.1	0.7	0.08	0.283	**	**	**	**
00400	PH (STANDARD UNITS)	08/26/68-06/04/75	39	8.4	8.408	8.8	8.1	0.034	0.184	8.2	8.2	8.5	8.7
00400	CONVERTED PH (STANDARD UNITS)	08/26/68-06/04/75	39	8.4	8.372	8.8	8.1	0.035	0.188	8.2	8.2	8.5	8.7
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/26/68-06/04/75	39	0.004	0.004	0.008	0.002	0.	0.002	0.002	0.003	0.006	0.006
00405	CARBON DIOXIDE (MG/L AS CO2)	08/26/68-08/26/68	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/26/68-08/26/68	1	106.	106.	106.	106.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/26/68-08/26/68	1	129.	129.	129.	129.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/26/68-08/26/68	2	0.205	0.205	0.26	0.15	0.006	0.078	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/26/68-08/26/68	2	0.015	0.015	0.02	0.01	0.	0.007	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/26/68-08/26/68	2	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	08/26/68-08/26/68	2	0.12	0.12	0.15	0.09	0.002	0.042	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/26/68-08/26/68	2	0.06	0.06	0.06	0.06	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/26/68-08/26/68	2	0.04	0.04	0.05	0.03	0.	0.014	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/26/68-08/26/68	1	6600.	6600.	6600.	6600.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/26/68-08/26/68	1	6500.	6500.	6500.	6500.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/26/68-08/26/68	1	481.9	481.9	481.9	481.9	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/26/68-08/26/68	1	1320.	1320.	1320.	1320.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/26/68-08/26/68	1	12900.	12900.	12900.	12900.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	08/26/68-08/26/68	1	69.	69.	69.	69.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/26/68-08/26/68	1	22200.	22200.	22200.	22200.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/26/68-08/26/68	1	3150.	3150.	3150.	3150.	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/26/68-08/26/68	1	3.6	3.6	3.6	3.6	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/26/68-08/26/68	1	40100.	40100.	40100.	40100.	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/26/68-08/26/68	1	54.5	54.5	54.5	54.5	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: PAIS0063

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------5/01-10/31---------- Obs	Exceed	Prop.	----------11/01-4/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	22	0	0.00	14	0	0.00	8	0	0.00						
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	43	0	0.00	35	0	0.00	8	0	0.00						
00400	PH	Marine Chronic	8.5	39	16	0.41	31	14	0.45	8	2	0.25						
		Other-Lo Lim.	6.5	39	0	0.00	31	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

Seasonal Analysis for Season #1: 5/01 to 10/31 - Station PAIS0063

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/26/68-06/04/75	35	7.	7.657	17.	1.	28.055	5.297	1.	1.	13.	15.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/68-06/04/75	35	27.4	26.874	29.9	21.9	5.95	2.439	22.32	26.6	28.9	29.58
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/26/68-06/04/75	35	53000.	52685.714	75000.	26000.	182398319.328	13505.492	27800.	45000.	60000.	71000.
00300	OXYGEN, DISSOLVED MG/L	08/26/68-06/04/75	35	5.7	6.389	10.5	4.6	2.63	1.622	5.06	5.3	6.7	9.62
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/26/68-06/04/75	35	94.	97.437	145.9	75.	409.423	20.234	77.2	81.	100.9	130.7
00400	PH (STANDARD UNITS)	08/26/68-06/04/75	31	8.4	8.429	8.8	8.1	0.036	0.19	8.2	8.2	8.6	8.7
00400	CONVERTED PH (STANDARD UNITS)	08/26/68-06/04/75	31	8.4	8.39	8.8	8.1	0.038	0.194	8.2	8.2	8.6	8.7
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/26/68-06/04/75	31	0.004	0.004	0.008	0.002	0.	0.002	0.002	0.003	0.006	0.006

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

Seasonal Analysis for Season #2: 11/01 to 4/30 - Station PAIS0063

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/26/68-06/04/75	8	7.5	7.875	16.	1.	33.839	5.817	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/68-06/04/75	8	21.95	21.9	25.1	18.5	11.011	3.318	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/26/68-06/04/75	8	49000.	48625.	50000.	47000.	2267857.143	1505.941	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	08/26/68-06/04/75	8	6.45	6.55	7.6	5.3	0.94	0.97	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/26/68-06/04/75	8	88.	89.375	99.	77.	68.268	8.262	**	**	**	**
00400	PH (STANDARD UNITS)	08/26/68-06/04/75	8	8.3	8.325	8.5	8.2	0.019	0.139	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/26/68-06/04/75	8	8.289	8.306	8.5	8.2	0.02	0.14	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/26/68-06/04/75	8	0.005	0.005	0.006	0.003	0.	0.001	**	**	**	**

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

Station Inventory for Station: PAIS0064

NPS Station ID: PAIS0064
LAT/LON: 27.101420/ -97.444866
Agency: 11NPSWRD
Date Created: 02/20/99
Location: LAND CUT TRANSECT 13 SITE 2
FIPS State/County: 48261 TEXAS/KENEDY
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_TWDB_13-2
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110207
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110207
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE POTRERO CORTADO TEXAS-KENEDY CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT TRANSECT 13 SITE 2 AT THE LAND CUT IN THE LAGUNA MADRE. DATA ARE FROM A SERIES OF YEARLY REPORTS (NUMBERS 117; 144; 171; AND 191) BY D. C. HAHL AND KARL W. RATZLAFF OF THE U.S. GEOLOGICAL SURVEY FOR THE TEXAS WATER DEVELOPMENT BOARD. THE REPORTS ARE TITLED "CHEMICAL AND PHYSICAL CHARACTERISTICS OF WATER IN ESTUARIES OF TEXAS SEPTEMBER 1967-SEPTEMBER 1968; OCTOBER 1968-SEPTEMBER 1969; OCTOBER 1969-SEPTEMBER 1970; AND OCTOBER 1970-SEPTEMBER 1971" AND WERE PUBLISHED IN MAY 1970; APRIL 1972; JUNE 1973; AND MAY 1975 RESPECTIVELY. THE PURPOSE OF THESE REPORTS WAS TO CREATE "A LONG-TERM RECORD OF THE CHEMICAL; PHYSICAL; AND HYDRAULIC CHARACTERISTICS OF THE TEXAS ESTUARINE SYSTEMS." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0064

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/26/68-10/07/70	16	7.5	7.813	17.	1.	30.963	5.564	1.	2.	13.	16.3
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/68-10/07/70	16	28.95	28.638	29.9	26.8	1.192	1.092	26.87	27.45	29.4	29.83
00078	TRANSPARENCY, SECCHI DISC (METERS)	09/11/69-09/16/69	2	0.08	0.08	0.09	0.07	0.	0.014	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/26/68-10/07/70	16	55500.	56562.5	75000.	43000.	115595833.333	10751.55	43000.	45250.	66750.	72200.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/26/68-08/26/68	1	60600.	60600.	60600.	60600.	0.	0.	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/26/68-10/07/70	16	5.55	5.906	8.3	4.6	1.183	1.088	4.95	5.3	5.7	8.23
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/26/68-10/07/70	16	88.5	97.	146.	78.	523.467	22.879	78.	81.	97.	144.6
00310	BOD, 5 DAY, 20 DEG C MG/L	08/26/68-08/26/68	2	0.9	0.9	1.1	0.7	0.08	0.283	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	08/26/68-10/07/70	16	8.5	8.494	8.8	8.2	0.045	0.211	8.2	8.25	8.675	8.8
00406	CONVERTED PH, FIELD, STANDARD UNITS	08/26/68-10/07/70	16	8.5	8.445	8.8	8.2	0.047	0.217	8.2	8.25	8.675	8.8
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/26/68-10/07/70	16	0.003	0.004	0.006	0.002	0.	0.002	0.002	0.002	0.006	0.006
00440	BICARBONATE ION (MG/L AS HCO3)	08/26/68-08/26/68	1	129.	129.	129.	129.	0.	0.	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	08/26/68-08/26/68	2	0.05	0.05	0.06	0.04	0.	0.014	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	08/26/68-08/26/68	2	0.04	0.04	0.05	0.03	0.	0.014	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/26/68-08/26/68	1	6490.	6490.	6490.	6490.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/26/68-08/26/68	1	482.	482.	482.	482.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/26/68-08/26/68	1	1320.	1320.	1320.	1320.	0.	0.	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	08/26/68-08/26/68	1	12900.	12900.	12900.	12900.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/26/68-08/26/68	1	22200.	22200.	22200.	22200.	0.	0.	**	**	**	**

** - Less than 9 observations ## - 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: PAIS0064

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00945	SULFATE, TOTAL (MG/L AS SO4)	08/26/68-08/26/68	1	3150.	3150.	3150.	3150.	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/26/68-08/26/68	1	3.6	3.6	3.6	3.6	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	08/26/68-08/26/68	2 ##	5.	5.	10.	0.	50.	7.071	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/26/68-08/26/68	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01082	STRONTIUM, TOTAL (UG/L AS SR)	08/26/68-08/26/68	2	10000.	10000.	10000.	10000.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	08/26/68-08/26/68	2 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	08/26/68-08/26/68	2	210.	210.	220.	200.	200.	14.142	**	**	**	**
46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	08/26/68-08/26/68	1	6620.	6620.	6620.	6620.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/26/68-08/26/68	1	40.	40.	40.	40.	0.	0.	**	**	**	**
71820	DENSITY (GM/ML AT 20 C)	08/26/68-08/26/68	1	1.026	1.026	1.026	1.026	0.	0.	**	**	**	**
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	08/26/68-08/26/68	2	0.25	0.25	0.3	0.2	0.005	0.071	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/26/68-08/26/68	2	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	08/26/68-08/26/68	2	0.015	0.015	0.02	0.01	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 time series plot

EPA Water Quality Criteria Analysis for Station: PAIS0064

				Total	Exceed	Prop.	----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------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.	16	0	0.00	16	0	0.00									
00406	PH, FIELD	Marine Chronic	8.5	16	10	0.63	16	10	0.63									
		Other-Lo Lim.	6.5	16	0	0.00	16	0	0.00									
01090	ZINC, DISSOLVED	Marine Acute	95.	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: PAIS0065

NPS Station ID: PAIS0065 LAT/LON: 27.102642/ -97.441531 Agency: 11NPSWRD Date Created: 06/12/99
Location: MARKER 203 ON THE INTRACOASTAL WATERWAY FIPS State/County: 48261 TEXAS/KENEDY
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): PAIS_SMEV_203
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110207 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110207 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE POTRERO CORTADO TEXAS-KENEDY CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT MARKER 203 ON THE INTRACOASTAL WATERWAY. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0065

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/06/75-11/06/75	1	23.5	23.5	23.5	23.5	0.	0.	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	11/06/75-11/06/75	1	29.9	29.9	29.9	29.9	0.	0.	**	**	**	**

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

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

Station Inventory for Station: PAIS0066

NPS Station ID: PAIS0066
LAT/LON: 27.114059/ -97.421976
Agency: 11NPSWRD
Date Created: 06/12/99
Location: STATION 203B IN THE LAGUNA MADRE
FIPS State/County: 48261 TEXAS/KENEDY
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SMEV_203B
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110207
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110207
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE POTRERO CORTADO TEXAS-KENEDY CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 203B IN THE LAGUNA MADRE. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0066

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/05/75-11/05/75	1	27.3	27.3	27.3	27.3	0.	0.	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	11/05/75-11/05/75	1	28.1	28.1	28.1	28.1	0.	0.	**	**	**	**

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

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

Station Inventory for Station: PAIS0067

NPS Station ID: PAIS0067
LAT/LON: 27.114142/ -97.439503
Agency: 11NPSWRD
Date Created: 06/12/99
Location: STATION 203A IN THE LAGUNA MADRE
FIPS State/County: 48261 TEXAS/KENEDY
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SMEV_203A
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110207
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110207
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE POTRERO CORTADO TEXAS-KENEDY CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 203A IN THE LAGUNA MADRE. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0067

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/05/75-11/05/75	1	27.4	27.4	27.4	27.4	0.	0.	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	11/05/75-11/05/75	1	27.3	27.3	27.3	27.3	0.	0.	**	**	**	**

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

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

Station Inventory for Station: PAIS0068

NPS Station ID: PAIS0068
LAT/LON: 27.114281/ -97.442503
Agency: 11NPSWRD
Date Created: 06/12/99
Location: STATION 203C IN THE LAGUNA MADRE
FIPS State/County: 48261 TEXAS/KENEDY
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SMEV_203C
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110207
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110207
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE POTRERO CORTADO TEXAS-KENEDY CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 203C IN THE LAGUNA MADRE. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0068

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/05/75-11/05/75	1	26.1	26.1	26.1	26.1	0.	0.	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	11/05/75-11/05/75	1	29.8	29.8	29.8	29.8	0.	0.	**	**	**	**

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

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

Station Inventory for Station: PAIS0069

NPS Station ID: PAIS0069 LAT/LON: 27.158670/ -97.436088 Agency: 11NPSWRD Date Created: 04/17/99
Location: LANDCUT ON THE INTRACOASTAL WATERWAY FIPS State/County: 48261 TEXAS/KENEDY
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): PAIS_SIMM_LC
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110207 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110207 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE YARBOROUGH PASS TEXAS-KENEDY CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT THE LANDCUT ON THE INTRACOASTAL WATERWAY IN THE UPPER LAGUNA MADRE. DATA ARE FROM A REPORT BY ERNEST G. SIMMONS OF THE TEXAS GAME AND FISH COMMISSION; "AN ECOLOGICAL SURVEY OF THE UPPER LAGUNA MADRE OF TEXAS." THE PURPOSE OF THIS REPORT WAS TO EXAMINE "PLANT LIFE; INVERTEBRATES AND VERTEBRATES OF THE AREA AND THE RELATIONSHIP OF THESE TO BASIC PHYSICAL AND BIOLOGICAL FACTORS IN THE ENVIRONMENT." THE DAY WAS ASSUMED TO BE THE 15TH OF EACH MONTH. DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0069

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/15/71-11/15/71	9	26.	25.556	30.5	21.5	9.903	3.147	21.5	22.	28.	30.5
00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/15/71-11/15/71	9	38.	44.333	95.	30.	394.75	19.868	30.	33.5	46.	95.
00300	OXYGEN, DISSOLVED MG/L	01/15/71-11/15/71	9	7.	6.778	9.	5.	1.944	1.394	5.	5.5	8.	9.
00400	PH (STANDARD UNITS)	01/15/71-11/15/71	9	8.4	8.4	8.7	8.2	0.022	0.15	8.2	8.3	8.5	8.7
00400	CONVERTED PH (STANDARD UNITS)	01/15/71-11/15/71	9	8.4	8.379	8.7	8.2	0.023	0.152	8.2	8.3	8.5	8.7
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/15/71-11/15/71	9	0.004	0.004	0.006	0.002	0.	0.001	0.002	0.003	0.005	0.006
00480	SALINITY - PARTS PER THOUSAND	01/15/71-11/15/71	9	43.3	37.233	51.6	19.4	131.738	11.478	19.4	24.45	44.65	51.6

** - 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: PAIS0069

				Total	Exceed	Prop.	----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------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.	9	2	0.22	5	1	0.20	4	1	0.25						
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	9	0	0.00	5	0	0.00	4	0	0.00						
00400	PH	Marine Chronic	8.5	9	3	0.33	5	2	0.40	4	1	0.25						
		Other-Lo Lim.	6.5	9	0	0.00	5	0	0.00	4	0	0.00						

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

Station Inventory for Station: PAIS0070

NPS Station ID: PAIS0070 LAT/LON: 27.166948/ -97.433531 Agency: 11NPSWRD Date Created: 06/12/99
Location: BEACON 175 ON THE INTRACOASTAL WATERWAY FIPS State/County: 48261 TEXAS/KENEDY
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): PAIS_SMEV_175
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110207 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110207 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE YARBOROUGH PASS TEXAS-KENEDY CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT BEACON 175 ON THE INTRACOASTAL WATERWAY. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0070

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/06/75-11/06/75	1	24.4	24.4	24.4	24.4	0.	0.	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	11/06/75-11/06/75	1	34.1	34.1	34.1	34.1	0.	0.	**	**	**	**

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

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

Station Inventory for Station: PAIS0071

NPS Station ID: PAIS0071 | LAT/LON: 27.169448/ -97.433115 | Agency: 11NPSWRD | Date Created: 04/17/99
Location: STATION 37 UPPER LAGUNA MADRE | FIPS State/County: 48261 TEXAS/KENEDY
Station Type: /TYPA/AMBNT/ESTURY | STORET Station ID(s): PAIS_SIMM_37
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 12110207 | Depth of Water: 0 | Aquifer:
Major Basin: WESTERN GULF | Elevation: 0 | Water Body Id:
Minor Basin: NUECES RIVER | ECO Region:
RF1 Index: 12110207 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: 12110208252000.00 | RF3 Mile Point: 0.00 | Distance from RF3: 0.29 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE YARBOROUGH PASS TEXAS-KENEDY CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 37 IN THE UPPER LAGUNA MADRE. DATA ARE FROM A REPORT BY ERNEST G. SIMMONS OF THE TEXAS GAME AND FISH COMMISSION; "AN ECOLOGICAL SURVEY OF THE UPPER LAGUNA MADRE OF TEXAS." THE PURPOSE OF THIS REPORT WAS TO EXAMINE "PLANT LIFE; INVERTEBRATES AND VERTEBRATES OF THE AREA AND THE RELATIONSHIP OF THESE TO BASIC PHYSICAL AND BIOLOGICAL FACTORS IN THE ENVIRONMENT." THE DAY WAS ASSUMED TO BE THE 15TH OF EACH MONTH. DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0071

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/15/71-11/15/71	9	26.	25.444	29.5	20.	12.403	3.522	20.	21.75	28.75	29.5
00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/15/71-11/15/71	9	37.	48.444	89.	30.	378.528	19.456	30.	34.5	60.	89.
00300	OXYGEN, DISSOLVED MG/L	01/15/71-11/15/71	9	7.	6.667	8.	5.	1.	1.	5.	6.	7.5	8.
00400	PH (STANDARD UNITS)	01/15/71-11/15/71	9	8.4	8.356	8.6	8.1	0.023	0.151	8.1	8.25	8.45	8.6
00400	CONVERTED PH (STANDARD UNITS)	01/15/71-11/15/71	9	8.4	8.332	8.6	8.1	0.023	0.153	8.1	8.25	8.45	8.6
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/15/71-11/15/71	9	0.004	0.005	0.008	0.003	0.	0.002	0.003	0.004	0.006	0.008
00480	SALINITY - PARTS PER THOUSAND	01/15/71-11/15/71	9	39.4	34.578	44.4	18.9	126.469	11.246	18.9	20.25	43.55	44.4

** - 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: PAIS0071

						----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	9	4	0.44	5	2	0.40	4	2	0.50						
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	9	0	0.00	5	0	0.00	4	0	0.00						
00400	PH	Marine Chronic	8.5	9	2	0.22	5	1	0.20	4	1	0.25						
		Other-Lo Lim.	6.5	9	0	0.00	5	0	0.00	4	0	0.00						

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

Station Inventory for Station: PAIS0072

NPS Station ID: PAIS0072
LAT/LON: 27.169448/ -97.433115
Agency: 11NPSWRD
Date Created: 04/17/99
Location: STATION 37 UPPER LAGUNA MADRE
FIPS State/County: 48261 TEXAS/KENEDY
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SIM2_37
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110207
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110207
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE YARBOROUGH PASS TEXAS-KENEDY CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 37 IN THE UPPER LAGUNA MADRE. DATA ARE FROM A REPORT BY ERNEST G. SIMMONS OF THE TEXAS GAME AND FISH COMMISSION; "AN ECOLOGICAL SURVEY OF THE UPPER LAGUNA MADRE OF TEXAS." THE PURPOSE OF THIS REPORT WAS TO EXAMINE "PLANT LIFE; INVERTEBRATES AND VERTEBRATES OF THE AREA AND THE RELATIONSHIP OF THESE TO BASIC PHYSICAL AND BIOLOGICAL FACTORS IN THE ENVIRONMENT." SALINITY DATA IS THE AVERAGE FOR THE MONTH. DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0072

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: PAIS0073

NPS Station ID: PAIS0073 | LAT/LON: 27.183198/ -97.419616 | Agency: 11NPSWRD | Date Created: 04/17/99
Location: STATION 36 UPPER LAGUNA MADRE | FIPS State/County: 48261 TEXAS/KENEDY
Station Type: /TYPA/AMBNT/ESTURY | STORET Station ID(s): PAIS_SIMM_36
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 12110207 | Depth of Water: 0 | Aquifer:
Major Basin: WESTERN GULF | Elevation: 0 | Water Body Id:
Minor Basin: NUECES RIVER | ECO Region:
RF1 Index: 12110207 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: 12110208252000.00 | RF3 Mile Point: 0.00 | Distance from RF3: 0.29 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE YARBOROUGH PASS TEXAS-KENEDY CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 36 IN THE UPPER LAGUNA MADRE. DATA ARE FROM A REPORT BY ERNEST G. SIMMONS OF THE TEXAS GAME AND FISH COMMISSION; "AN ECOLOGICAL SURVEY OF THE UPPER LAGUNA MADRE OF TEXAS." THE PURPOSE OF THIS REPORT WAS TO EXAMINE "PLANT LIFE; INVERTEBRATES AND VERTEBRATES OF THE AREA AND THE RELATIONSHIP OF THESE TO BASIC PHYSICAL AND BIOLOGICAL FACTORS IN THE ENVIRONMENT." THE DAY WAS ASSUMED TO BE THE 15TH OF EACH MONTH. DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0073

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/15/71-11/15/71	9	26.	25.611	30.5	20.	13.924	3.731	20.	21.75	29.	30.5
00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/15/71-11/15/71	9	59.	51.444	79.	25.	514.778	22.689	25.	27.5	72.5	79.
00300	OXYGEN, DISSOLVED MG/L	01/15/71-11/15/71	9	7.	7.	8.	6.	0.5	0.707	6.	6.5	7.5	8.
00400	PH (STANDARD UNITS)	01/15/71-11/15/71	9	8.4	8.4	8.7	8.1	0.04	0.2	8.1	8.25	8.6	8.7
00400	CONVERTED PH (STANDARD UNITS)	01/15/71-11/15/71	9	8.4	8.36	8.7	8.1	0.042	0.204	8.1	8.25	8.6	8.7
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/15/71-11/15/71	9	0.004	0.004	0.008	0.002	0.	0.002	0.002	0.003	0.006	0.008
00480	SALINITY - PARTS PER THOUSAND	01/15/71-11/15/71	9	42.1	36.211	45.3	18.9	122.444	11.065	18.9	23.05	44.9	45.3

** - 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: PAIS0073

						5/01-10/31			11/01-4/30			n/a			n/a		
Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	9	5	0.56	5	3	0.60	4	2	0.50						
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	9	0	0.00	5	0	0.00	4	0	0.00						
00400	PH	Marine Chronic	8.5	9	3	0.33	5	2	0.40	4	1	0.25						
		Other-Lo Lim.	6.5	9	0	0.00	5	0	0.00	4	0	0.00						

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

Station Inventory for Station: PAIS0074

NPS Station ID: PAIS0074
LAT/LON: 27.183198/ -97.419616
Agency: 11NPSWRD
Date Created: 04/17/99
Location: STATION 36 UPPER LAGUNA MADRE
FIPS State/County: 48261 TEXAS/KENEDY
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SIM2_36
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110207
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110207
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE YARBOROUGH PASS TEXAS-KENEDY CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 36 IN THE UPPER LAGUNA MADRE. DATA ARE FROM A REPORT BY ERNEST G. SIMMONS OF THE TEXAS GAME AND FISH COMMISSION; "AN ECOLOGICAL SURVEY OF THE UPPER LAGUNA MADRE OF TEXAS." THE PURPOSE OF THIS REPORT WAS TO EXAMINE "PLANT LIFE; INVERTEBRATES AND VERTEBRATES OF THE AREA AND THE RELATIONSHIP OF THESE TO BASIC PHYSICAL AND BIOLOGICAL FACTORS IN THE ENVIRONMENT." SALINITY DATA IS THE AVERAGE FOR THE MONTH. DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0074

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: PAIS0075

NPS Station ID: PAIS0075 LAT/LON: 27.191281/ -97.428449 Agency: 11NPSWRD Date Created: 04/17/99
Location: LIGHT 163 ON THE INTRACOASTAL WATERWAY FIPS State/County: 48261 TEXAS/KENEDY
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): PAIS_CONO_163
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110207 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110207 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE YARBOROUGH PASS TEXAS-KENEDY COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT LIGHT 163 ON THE INTRACOASTAL WATERWAY. DATA WERE COLLECTED ALONG A TRANSECT PERPENDICULAR TO THE WATERWAY AND AVERAGED FOR THE MONTH. DATA ARE FROM A REPORT BY JOHN T. CONOVER; "THE ECOLOGY; SEASONAL PERIODICITY; AND DISTRIBUTION OF BENTHIC PLANTS IN SOME TEXAS LAGOONS;" OCTOBER 1963. THE PURPOSE OF THIS REPORT WAS TO "STUDY THE LOCAL EFFECTS OF LIGHT; TEMPERATURE; AND SALINITY ON THE SEASONAL GROWTH OF PLANTS." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0075

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: PAIS0076

NPS Station ID: PAIS0076
LAT/LON: 27.203059/ -97.408892
Agency: 112WRD
Date Created: 12/02/81
Location: 1212502LAGUNA MADRE ES LINE 125 SITE 02
FIPS State/County: 48261 TEXAS/KENEDY
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): 271211097243200
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110207
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 12110207
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110205002606.85
RF3 Mile Point: 13.43
Distance from RF3: 0.78
On/Off RF3:
Description:

Parameter Inventory for Station: PAIS0076

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/11/79-03/30/82	12	3.	3.583	7.	1.	7.538	2.746	1.	1.	6.	7.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/11/79-03/30/82	12	19.25	20.125	29.5	13.5	28.324	5.322	13.5	16.5	23.25	29.5
00078	TRANSPARENCY, SECCHI DISC (METERS)	07/16/80-03/30/82	5	0.5	0.568	0.81	0.36	0.05	0.223	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/11/79-03/30/82	12	44500.	45241.667	59000.	35100.	55773560.606	7468.17	35310.	41550.	47375.	59000.
00300	OXYGEN, DISSOLVED MG/L	10/11/79-03/30/82	12	7.4	7.267	8.6	5.8	0.826	0.909	5.92	6.425	7.875	8.57
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	10/11/79-03/30/82	12	94.5	93.083	101.	85.	28.265	5.316	85.6	87.25	97.	100.4
00400	PH (STANDARD UNITS)	10/11/79-03/30/82	12	8.25	8.275	8.4	8.1	0.015	0.122	8.1	8.2	8.4	8.4
00400	CONVERTED PH (STANDARD UNITS)	10/11/79-03/30/82	12	8.247	8.259	8.4	8.1	0.015	0.123	8.1	8.2	8.4	8.4
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/11/79-03/30/82	12	0.006	0.006	0.008	0.004	0.	0.002	0.004	0.004	0.006	0.008

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

EPA Water Quality Criteria Analysis for Station: PAIS0076

				Total	Exceed	Prop.	----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	12	0	0.00	4	0	0.00	8	0	0.00						
00400	PH	Marine Chronic	8.5	12	0	0.00	4	0	0.00	8	0	0.00						
		Other-Lo Lim.	6.5	12	0	0.00	4	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: PAIS0077

NPS Station ID: PAIS0077
LAT/LON: 27.203059/ -97.409171
Agency: 112WRD
Date Created: 09/26/78
Location: LAGUNA MADRE ESTUARY 125-2
FIPS State/County: 48261 TEXAS/KENEDY
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): 271211097243300
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110207
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 12110207
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110207130500.00
RF3 Mile Point: 3.10
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: PAIS0077

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/22/77-04/11/79	6	3.	3.5	7.	1.	7.9	2.811	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/22/77-04/11/79	6	28.	27.583	30.	24.5	5.642	2.375	**	**	**	**
00078	TRANSPARENCY, SECCHI DISC (METERS)	06/22/77-04/11/79	3	0.49	0.483	0.6	0.36	0.014	0.12	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/22/77-04/11/79	6	54000.	55083.333	60300.	51000.	17817666.667	4221.098	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	06/22/77-04/11/79	6	5.85	5.867	6.4	5.3	0.223	0.472	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/22/77-04/11/79	6	97.	94.667	101.	86.	42.667	6.532	**	**	**	**
00400	PH (STANDARD UNITS)	06/22/77-04/11/79	6	8.4	8.283	8.4	8.	0.034	0.183	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/22/77-04/11/79	6	8.4	8.248	8.4	8.	0.035	0.187	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/22/77-04/11/79	6	0.004	0.006	0.01	0.004	0.	0.003	**	**	**	**
00600	NITROGEN, TOTAL (MG/L AS N)	06/27/78-06/27/78	2	1.15	1.15	1.2	1.1	0.005	0.071	**	**	**	**
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	06/27/78-06/27/78	2	1.1	1.1	1.1	1.1	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/27/78-06/27/78	2	0.05	0.05	0.07	0.03	0.001	0.028	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	06/27/78-06/27/78	2	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	06/27/78-06/27/78	2	0.005	0.005	0.01	0.	0.	0.007	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/27/78-06/27/78	2	1.15	1.15	1.2	1.1	0.005	0.071	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/27/78-06/27/78	2	0.015	0.015	0.02	0.01	0.	0.007	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/27/78-06/27/78	2	0.045	0.045	0.05	0.04	0.	0.007	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	06/27/78-06/27/78	2	9.8	9.8	11.	8.6	2.88	1.697	**	**	**	**
71887	NITROGEN, TOTAL, AS NO3 - MG/L	06/27/78-06/27/78	2	5.15	5.15	5.4	4.9	0.125	0.354	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: PAIS0077

				Total	Exceed	Prop.	----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	6	0	0.00	4	0	0.00	2	0	0.00						
00400	PH	Marine Chronic	8.5	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						

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

Station Inventory for Station: PAIS0078

NPS Station ID: PAIS0078
LAT/LON: 27.203087/ -97.393142
Agency: 11NPSWRD
Date Created: 04/17/99
Location: STATION 35 UPPER LAGUNA MADRE
FIPS State/County: 48261 TEXAS/KENEDY
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SIMM_35
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 12110207
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110207
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE YARBOROUGH PASS TEXAS-KENEDY CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS INSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 35 IN THE UPPER LAGUNA MADRE. DATA ARE FROM A REPORT BY ERNEST G. SIMMONS OF THE TEXAS GAME AND FISH COMMISSION; "AN ECOLOGICAL SURVEY OF THE UPPER LAGUNA MADRE OF TEXAS." THE PURPOSE OF THIS REPORT WAS TO EXAMINE "PLANT LIFE; INVERTEBRATES AND VERTEBRATES OF THE AREA AND THE RELATIONSHIP OF THESE TO BASIC PHYSICAL AND BIOLOGICAL FACTORS IN THE ENVIRONMENT." THE DAY WAS ASSUMED TO BE THE 15TH OF EACH MONTH. FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT PADRE ISLAND NATIONAL SEASHORE; P.O. BOX 181300; CORPUS CHRISTI TX 78480-1300 (TEL. 361-949-8173). DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/15/71-11/15/71	9	26.5	25.833	30.	20.	13.563	3.683	20.	22.	29.25	30.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/15/71-11/15/71	9	50.	48.	72.	25.	236.	15.362	25.	34.5	59.5	72.
00300	OXYGEN, DISSOLVED MG/L	01/15/71-11/15/71	9	7.	6.333	8.	3.	2.	1.414	3.	6.	7.	8.
00400	PH (STANDARD UNITS)	01/15/71-11/15/71	9	8.3	8.322	8.6	8.1	0.024	0.156	8.1	8.2	8.4	8.6
00400	CONVERTED PH (STANDARD UNITS)	01/15/71-11/15/71	9	8.3	8.297	8.6	8.1	0.025	0.159	8.1	8.2	8.4	8.6
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/15/71-11/15/71	9	0.005	0.005	0.008	0.003	0.	0.002	0.003	0.004	0.006	0.008
00480	SALINITY - PARTS PER THOUSAND	01/15/71-11/15/71	9	43.3	38.044	51.6	20.	125.678	11.211	20.	25.55	44.95	51.6

** - 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: PAIS0078

						----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	9	5	0.56	5	3	0.60	4	2	0.50						
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	9	1	0.11	5	1	0.20	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: PAIS0078

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	5/01-10/31 Obs	5/01-10/31 Exceed	5/01-10/31 Prop.	11/01-4/30 Obs	11/01-4/30 Exceed	11/01-4/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400 PH	Marine Chronic	8.5	9	1	0.11	5	0	0.00	4	1	0.25						
	Other-Lo Lim.	6.5	9	0	0.00	5	0	0.00	4	0	0.00						

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

Station Inventory for Station: PAIS0079

NPS Station ID: PAIS0079
LAT/LON: 27.203087/ -97.393142
Agency: 11NPSWRD
Date Created: 04/17/99
Location: STATION 35 UPPER LAGUNA MADRE
FIPS State/County: 48261 TEXAS/KENEDY
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SIM2_35
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 12110207
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110207
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE YARBOROUGH PASS TEXAS-KENEDY CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS INSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 35 IN THE UPPER LAGUNA MADRE. DATA ARE FROM A REPORT BY ERNEST G. SIMMONS OF THE TEXAS GAME AND FISH COMMISSION; "AN ECOLOGICAL SURVEY OF THE UPPER LAGUNA MADRE OF TEXAS." THE PURPOSE OF THIS REPORT WAS TO EXAMINE "PLANT LIFE; INVERTEBRATES AND VERTEBRATES OF THE AREA AND THE RELATIONSHIP OF THESE TO BASIC PHYSICAL AND BIOLOGICAL FACTORS IN THE ENVIRONMENT." SALINITY DATA IS THE AVERAGE FOR THE MONTH. FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT PADRE ISLAND NATIONAL SEASHORE; P.O. BOX 181300; CORPUS CHRISTI TX 78480-1300 (TEL. 361-949-8173). DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0079

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: PAIS0080

NPS Station ID: PAIS0080
LAT/LON: 27.203615/ -97.386392
Agency: 112WRD
Date Created: 05/19/79
Location: 1212501LAGUNA MADRE ES LINE 125
FIPS State/County: 48261 TEXAS/KENEDY
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): 271213097231100
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 12110207
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 12110207002
RF1 Mile Point: 4.110
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 12110203000300.00
RF3 Mile Point: 23.36
Distance from RF3: 0.09
On/Off RF3:
Description:

Parameter Inventory for Station: PAIS0080

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/26/68-03/01/78	32	4.	4.156	11.	1.	10.072	3.174	1.	1.	7.	9.4
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/68-03/01/78	32	25.65	24.697	29.8	17.7	17.791	4.218	18.12	21.	28.7	29.55
00070	TURBIDITY, (JACKSON CANDLE UNITS)	04/24/74-02/11/76	13	25.	30.769	70.	10.	436.859	20.901	10.	12.5	47.5	68.
00078	TRANSPARENCY, SECCHI DISC (METERS)	08/26/68-08/26/76	12	0.82	1.401	7.5	0.52	3.763	1.94	0.562	0.66	1.173	5.691
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/26/68-03/01/78	32	57000.	57250.	79000.	22000.	159612903.226	12633.8	48000.	51250.	67750.	73000.
00300	OXYGEN, DISSOLVED MG/L	08/26/68-03/01/78	32	5.45	5.103	10.9	0.	7.643	2.765	0.	4.025	7.	7.78
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/26/68-03/01/78	32	84.	76.097	131.9	0.	1633.509	40.417	0.	55.25	105.9	127.1
00310	BOD, 5 DAY, 20 DEG C MG/L	09/16/69-09/16/69	2	7.25	7.25	7.6	6.9	0.245	0.495	**	**	**	**
00400	PH (STANDARD UNITS)	08/26/68-03/01/78	30	8.4	8.347	8.7	7.8	0.042	0.205	8.01	8.2	8.5	8.59
00400	CONVERTED PH (STANDARD UNITS)	08/26/68-03/01/78	30	8.4	8.295	8.7	7.8	0.045	0.211	8.01	8.2	8.5	8.59
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/26/68-03/01/78	30	0.004	0.005	0.016	0.002	0.	0.003	0.003	0.003	0.006	0.01
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/16/69-09/16/69	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	09/16/69-09/16/69	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/16/69-09/16/69	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/16/69-09/16/69	2	0.305	0.305	0.55	0.06	0.12	0.346	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/16/69-09/16/69	2	0.11	0.11	0.18	0.04	0.01	0.099	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/16/69-09/16/69	2	0.1	0.1	0.18	0.02	0.013	0.113	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/16/69-09/16/69	2	4.7	4.7	6.2	3.2	4.5	2.121	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: PAIS0080

						----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	13	3	0.23	6	2	0.33	7	1	0.14						
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	32	8	0.25	23	6	0.26	9	2	0.22						
00400	PH	Marine Chronic	8.5	30	9	0.30	21	9	0.43	9	0	0.00						
		Other-Lo Lim.	6.5	30	0	0.00	21	0	0.00	9	0	0.00						

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

Seasonal Analysis for Season #1: 5/01 to 10/31 - Station PAIS0080

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/26/68-03/01/78	23	5.	4.565	11.	1.	11.348	3.369	1.	1.	7.	10.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/68-03/01/78	23	27.	26.617	29.8	21.	8.072	2.841	21.8	23.7	29.	29.76
00078	TRANSPARENCY, SECCHI DISC (METERS)	08/26/68-08/26/76	9	0.81	1.606	7.5	0.52	4.982	2.232	0.52	0.66	1.37	7.5
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/26/68-03/01/78	23	60000.	58608.696	79000.	22000.	205885375.494	14348.706	32400.	53000.	68000.	73000.
00300	OXYGEN, DISSOLVED MG/L	08/26/68-03/01/78	23	5.4	5.035	10.9	0.	8.731	2.955	0.	3.3	7.2	8.86
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/26/68-03/01/78	23	84.	77.27	131.9	0.	1893.	43.509	0.	53.	109.9	130.1
00400	PH (STANDARD UNITS)	08/26/68-03/01/78	21	8.4	8.376	8.7	7.8	0.049	0.221	8.02	8.25	8.5	8.68
00400	CONVERTED PH (STANDARD UNITS)	08/26/68-03/01/78	21	8.4	8.314	8.7	7.8	0.053	0.23	8.02	8.25	8.5	8.68
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/26/68-03/01/78	21	0.004	0.005	0.016	0.002	0.	0.003	0.002	0.003	0.006	0.01

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

Seasonal Analysis for Season #2: 11/01 to 4/30 - Station PAIS0080

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/26/68-03/01/78	9	3.	3.111	7.	1.	6.111	2.472	1.	1.	5.5	7.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/68-03/01/78	9	18.4	19.789	25.3	17.7	9.039	3.006	17.7	18.	21.85	25.3
00078	TRANSPARENCY, SECCHI DISC (METERS)	08/26/68-08/26/76	3	0.83	0.787	0.87	0.66	0.012	0.112	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/26/68-03/01/78	9	52000.	53777.778	63000.	48000.	33444444.444	5783.117	48000.	48500.	59000.	63000.
00300	OXYGEN, DISSOLVED MG/L	08/26/68-03/01/78	9	6.4	5.278	7.3	0.	5.557	2.357	0.	4.15	7.	7.3
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/26/68-03/01/78	9	82.	73.1	105.9	0.	1110.04	33.317	0.	56.5	97.5	105.9
00400	PH (STANDARD UNITS)	08/26/68-03/01/78	9	8.3	8.278	8.4	8.	0.022	0.148	8.	8.15	8.4	8.4
00400	CONVERTED PH (STANDARD UNITS)	08/26/68-03/01/78	9	8.3	8.254	8.4	8.	0.023	0.15	8.	8.15	8.4	8.4
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/26/68-03/01/78	9	0.005	0.006	0.01	0.004	0.	0.002	0.004	0.004	0.007	0.01

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

Station Inventory for Station: PAIS0081

NPS Station ID: PAIS0081
LAT/LON: 27.203615/ -97.426393
Agency: 112WRD
Date Created: 06/29/78
Location: 1212503LAGUNA MADRE ES LINE 125 SITE 03
FIPS State/County: 48261 TEXAS/KENEDY
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): 271213097253500
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110207
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 12110207001
RF1 Mile Point: 3.790
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 12110207101700.00
RF3 Mile Point: 5.46
Distance from RF3: 0.08
On/Off RF3:
Description:

Parameter Inventory for Station: PAIS0081

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/26/68-03/30/82	89	6.	6.652	17.	1.	27.116	5.207	1.	1.	10.	14.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/68-03/30/82	89	24.6	23.872	31.1	9.5	29.618	5.442	16.5	19.2	28.8	29.5
00070	TURBIDITY, (JACKSON CANDLE UNITS)	09/27/72-02/11/76	32	10.	19.188	85.	0.	408.867	20.22	0.	5.	30.	40.7
00078	TRANSPARENCY, SECCHI DISC (METERS)	08/26/68-03/30/82	26	0.84	1.601	10.79	0.41	7.167	2.677	0.552	0.61	1.028	4.214
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/26/68-03/30/82	88	51000.	50590.909	69000.	20000.	146827502.612	12117.24	30900.	43550.	58075.	68000.
00300p	OXYGEN, DISSOLVED MG/L	08/26/68-03/30/82	88	6.5	6.698	11.6	3.5	2.676	1.636	5.07	5.425	7.475	8.8
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/26/68-03/30/82	88	92.5	95.815	142.9	56.	283.796	16.846	80.	86.	104.65	121.2
00310	BOD, 5 DAY, 20 DEG C MG/L	09/16/69-08/26/76	16	2.15	2.925	7.1	0.8	3.719	1.929	1.01	1.45	4.925	6.12
00400p	PH (STANDARD UNITS)	08/26/68-03/30/82	85	8.4	8.404	8.9	7.9	0.034	0.185	8.16	8.3	8.5	8.7
00400p	CONVERTED PH (STANDARD UNITS)	08/26/68-03/30/82	85	8.4	8.364	8.9	7.9	0.036	0.189	8.16	8.3	8.5	8.7
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/26/68-03/30/82	85	0.004	0.004	0.013	0.001	0.	0.002	0.002	0.003	0.005	0.007
00403	PH, LAB, STANDARD UNITS SU	11/18/80-03/30/82	4	8.25	8.25	8.3	8.2	0.003	0.058	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	11/18/80-03/30/82	4	8.247	8.247	8.3	8.2	0.003	0.058	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/18/80-03/30/82	4	0.006	0.006	0.006	0.005	0.	0.001	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	09/16/69-07/16/80	11	0.8	0.882	1.6	0.4	0.124	0.352	0.42	0.7	1.1	1.54
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/16/69-03/30/82	19	143.	140.158	172.	81.	644.474	25.386	106.	121.	166.	170.
00440	BICARBONATE ION (MG/L AS HCO3)	09/16/69-07/16/80	15	164.	162.467	210.	99.	863.695	29.389	117.	146.	180.	205.2
00445	CARBONATE ION (MG/L AS CO3)	10/23/74-07/16/80	10	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00600	NITROGEN, TOTAL (MG/L AS N)	04/24/74-03/24/81	21	1.	0.968	1.9	0.	0.306	0.554	0.014	0.82	1.4	1.74
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	04/24/74-03/30/82	23	0.95	0.899	1.7	0.	0.236	0.486	0.	0.79	1.2	1.58
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/16/69-03/30/82	36	0.05	0.082	0.38	0.	0.007	0.085	0.007	0.03	0.1	0.175
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	09/16/69-03/30/82	36	0.01	0.017	0.09	0.	0.001	0.024	0.	0.005	0.018	0.063
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/16/69-03/24/81	32	0.	0.014	0.22	0.	0.002	0.042	0.	0.	0.01	0.03
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/24/74-03/30/82	25	1.	1.054	1.9	0.	0.312	0.558	0.012	0.85	1.5	1.8
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/24/74-03/30/82	25	0.02	0.04	0.31	0.	0.004	0.065	0.	0.01	0.05	0.094
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	04/11/79-04/11/79	2	0.09	0.09	0.09	0.09	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/16/69-10/17/73	6	0.045	0.063	0.17	0.	0.004	0.061	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/16/69-03/30/82	36	0.05	0.062	0.24	0.005	0.002	0.05	0.027	0.03	0.07	0.116
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/16/69-10/17/73	6	0.015	0.021	0.055	0.	0.	0.02	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	09/27/72-03/30/82	30	8.85	9.68	22.	3.4	17.335	4.164	5.61	6.45	11.25	16.8
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/16/69-03/30/82	21	6400.	6100.	8400.	2000.	2619000.	1618.332	3760.	5300.	7250.	8380.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/16/69-03/30/82	19	6400.	6015.789	8200.	1900.	2831403.509	1682.677	3400.	4900.	7300.	8200.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/16/69-03/30/82	20	440.	425.74	590.	169.9	12330.898	111.045	217.	382.5	502.5	562.41
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/16/69-03/30/82	20	1300.	1210.495	1700.	379.9	104634.795	323.473	717.	1100.	1400.	1672.
00930	SODIUM, DISSOLVED (MG/L AS NA)	04/24/74-03/30/82	18	11000.	10672.222	15000.	6500.	4799771.242	2190.838	6950.	9300.	12000.	14100.
00931	SODIUM ADSORPTION RATIO	04/24/74-03/30/82	19	58.	58.316	67.	46.	33.006	5.745	47.	56.	63.	67.
00932	SODIUM, PERCENT	04/24/74-03/30/82	19	77.	77.368	79.	76.	0.912	0.955	76.	77.	78.	79.
00933	SODIUM,PLUS POTASSIUM (MG/L)	09/16/69-10/11/79	5	9700.	9440.	13400.	3600.	13073000.	3615.66	**	**	**	**

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

Parameter Inventory for Station: PAIS0081

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00935	POTASSIUM, DISSOLVED (MG/L AS K)	04/24/74-03/30/82	18	420.	406.111	600.	160.	14542.81	120.594	214.	315.	472.5	582.
00940	CHLORIDE,TOTAL IN WATER MG/L	09/16/69-03/30/82	20	19500.	18950.	27000.	6200.	24727894.737	4972.715	11300.	17000.	23100.	25800.
00945	SULFATE, TOTAL (MG/L AS SO4)	09/16/69-03/30/82	20	2700.	2657.	3800.	900.	537822.105	733.364	1550.	2325.	3275.	3684.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/16/69-03/30/82	17	0.9	1.253	3.8	0.6	0.636	0.798	0.6	0.75	1.7	2.28
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/16/69-03/30/82	25	4.8	5.132	9.4	0.3	5.06	2.249	2.02	4.1	6.95	8.16
01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/23/74-10/23/74	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	09/16/69-09/16/69	1	6300.	6300.	6300.	6300.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	10/23/74-10/23/74	1	9.	9.	9.	9.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/23/74-10/23/74	1	200.	200.	200.	200.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	10/23/74-10/23/74	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/23/74-10/23/74	1	130.	130.	130.	130.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	10/23/74-10/23/74	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/23/74-10/23/74	1	7200.	7200.	7200.	7200.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	10/23/74-10/23/74	1	80.	80.	80.	80.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/23/74-10/23/74	1	50.	50.	50.	50.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/23/74-10/23/74	1	200.	200.	200.	200.	0.	0.	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	10/23/74-06/04/75	2	5.	5.	10.	0.	50.	7.071	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	10/23/74-06/04/75	2	0.5	0.5	1.	0.	0.5	0.707	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			3.162								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/23/74-06/04/75	2	0.	0.	0.	0.	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/23/74-06/04/75	2	0.	0.	0.	0.	0.	0.	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			1.								
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	10/23/74-06/04/75	2	0.	0.	0.	0.	0.	0.	**	**	**	**
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	10/23/74-06/04/75	2	0.	0.	0.	0.	0.	0.	**	**	**	**
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4	GEOMETRIC MEAN =			1.								
32230	CHLOROPHYLL A (MG/L)	10/23/74-02/11/76	3	0.001	0.003	0.007	0.	0.	0.004	**	**	**	**
32231	CHLOROPHYLL B (MG/L)	10/23/74-02/11/76	3	0.001	0.003	0.007	0.	0.	0.004	**	**	**	**
32232	CHLOROPHYLL C (MG/L)	10/23/74-02/11/76	3	0.001	0.002	0.005	0.	0.	0.003	**	**	**	**
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	05/23/73-08/26/76	11	0.	1.364	5.	0.	3.855	1.963	0.	0.	3.	4.8
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39360	DDD IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/16/69-03/30/82	18	36100.	50233.333	314000.	11300.	4418470588.235	66471.577	19400.	30375.	43025.	74960.
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/16/69-03/30/82	18	49.1	68.106	427.	15.4	8174.477	90.413	26.38	41.275	58.525	99.76
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	04/11/79-11/18/80	8	0.1	0.098	0.2	0.04	0.002	0.047	**	**	**	**
71865	IODIDE (MG/L AS I)	09/16/69-09/16/69	1	0.14	0.14	0.14	0.14	0.	0.	**	**	**	**
71870	BROMIDE (MG/L AS BR)	09/16/69-09/16/69	1	82.	82.	82.	82.	0.	0.	**	**	**	**
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	04/11/79-03/30/82	13	0.12	0.127	0.21	0.06	0.002	0.048	0.06	0.09	0.165	0.198
71887	NITROGEN, TOTAL, AS NO3 - MG/L	04/24/74-03/24/81	21	4.4	4.307	8.2	0.	6.077	2.465	0.052	3.6	6.25	7.84
71890	MERCURY, DISSOLVED (UG/L AS HG)	10/23/74-10/23/74	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	03/24/81-03/24/81	1	220.	220.	220.	220.	0.	0.	**	**	**	**

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

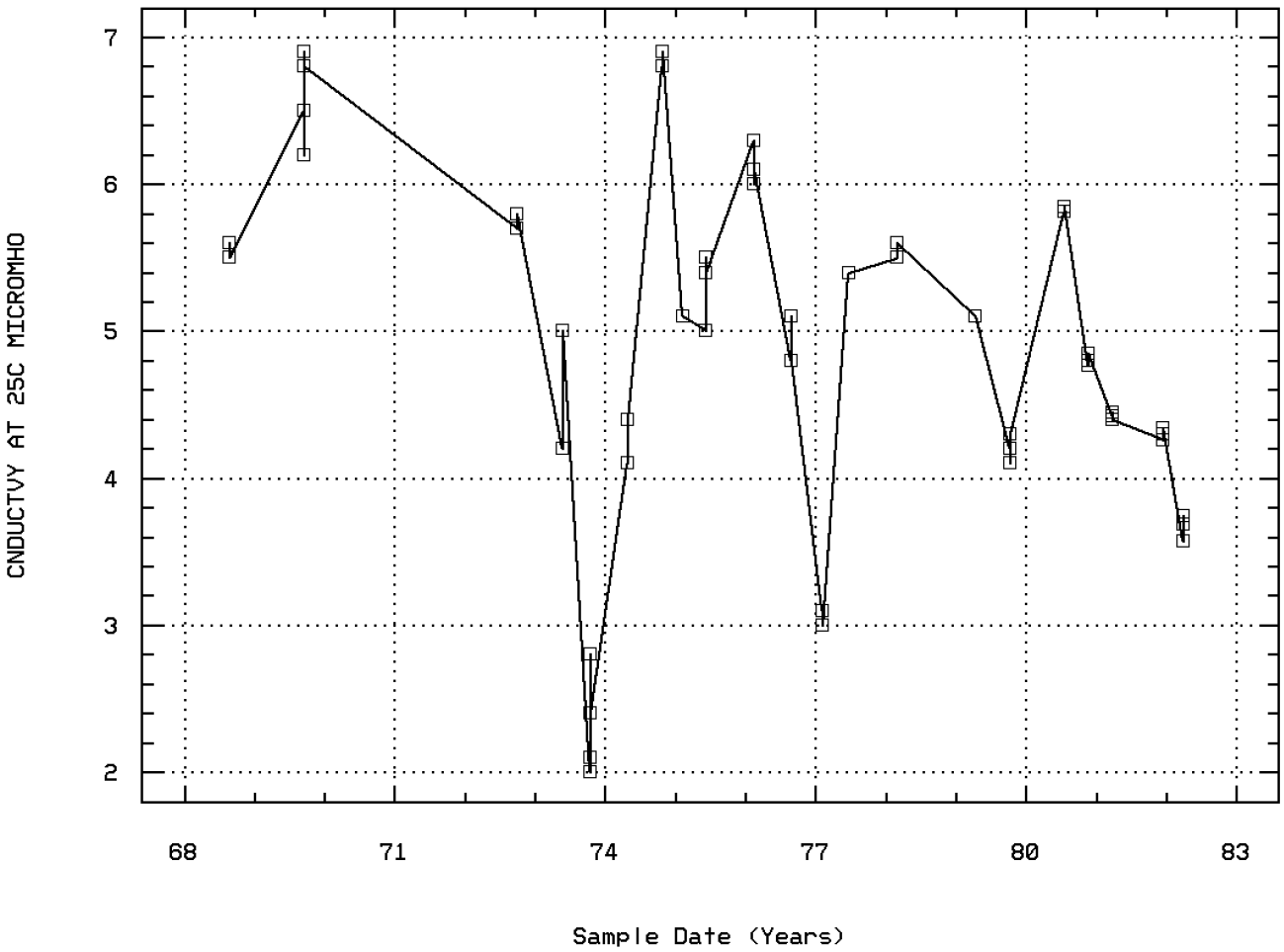
EPA Water Quality Criteria Analysis for Station: PAIS0081

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------5/01-10/31---------- Obs	Exceed	Prop.	----------11/01-4/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	32	2	0.06	19	1	0.05	13	1	0.08						
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	88	2	0.02	55	2	0.04	33	0	0.00						
00400	PH	Marine Chronic	8.5	85	35	0.41	52	25	0.48	33	10	0.30						
		Other-Lo Lim.	6.5	85	0	0.00	52	0	0.00	33	0	0.00						
00403	PH, LAB	Marine Chronic	8.5	4	0	0.00				4	0	0.00						
		Other-Lo Lim.	6.5	4	0	0.00				4	0	0.00						
01000	ARSENIC, DISSOLVED	Marine Acute	69.	1	0	0.00	1	0	0.00									
01025	CADMIUM, DISSOLVED	Marine Acute	43.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Marine Acute	2.9	1	1	1.00	1	1	1.00									
01049	LEAD, DISSOLVED	Marine Acute	220.	1	0	0.00	1	0	0.00									
01065	NICKEL, DISSOLVED	Marine Acute	75.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Marine Acute	95.	1	0	0.00	1	0	0.00									
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	2	0	0.00	2	0	0.00									
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	2	0	0.00	2	0	0.00									
39330	ALDRIN IN WHOLE WATER SAMPLE	Marine Acute	1.3	1	0	0.00	1	0	0.00									
39340	GAMMA-BHC(LINDANE), WHOLE WATER	Marine Acute	0.16	1	0	0.00	1	0	0.00									
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATE	Marine Acute	0.09	1	0	0.00	1	0	0.00									
39360	DDD IN WHOLE WATER SAMPLE	Marine Acute	3.6	1	0	0.00	1	0	0.00									
39365	DDE IN WHOLE WATER SAMPLE	Marine Acute	14.	1	0	0.00	1	0	0.00									
39370	DDT IN WHOLE WATER SAMPLE	Marine Acute	0.13	1	0	0.00	1	0	0.00									
39380	DIELDRIN IN WHOLE WATER SAMPLE	Marine Acute	0.71	1	0	0.00	1	0	0.00									
39390	ENDRIN IN WHOLE WATER SAMPLE	Marine Acute	0.037	1	0	0.00	1	0	0.00									
39400	TOXAPHENE IN WHOLE WATER SAMPLE	Marine Acute	0.21	1	0	0.00	1	0	0.00									
39410	HEPTACHLOR IN WHOLE WATER SAMPLE	Marine Acute	0.053	1	0	0.00	1	0	0.00									
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE	Marine Acute	0.053	1	0	0.00	1	0	0.00									
71890	MERCURY, DISSOLVED	Marine Acute	2.1	1	0	0.00	1	0	0.00									

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

Station: PAIS0081 Parameter Code: 00095

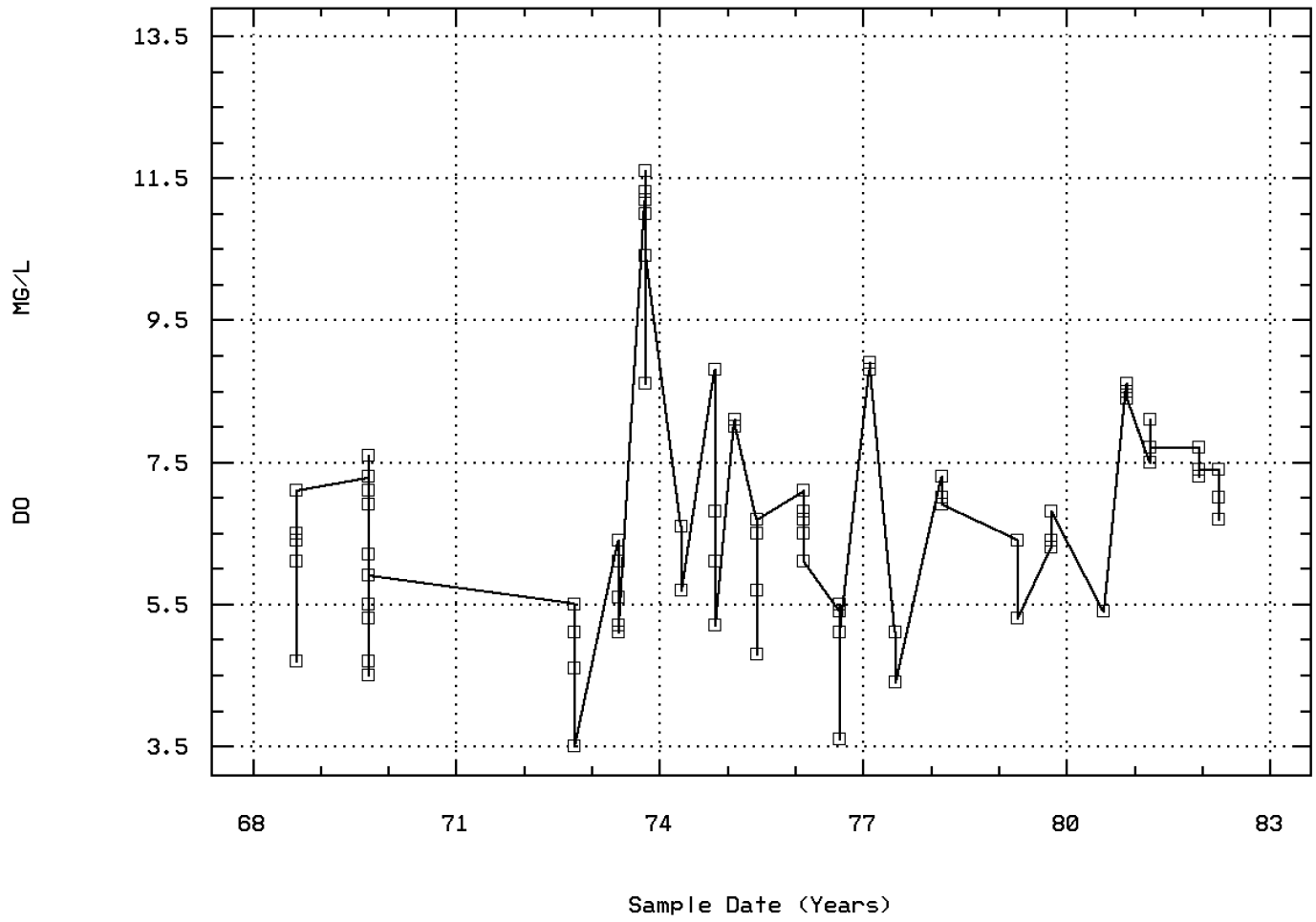
SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)



1212503LAGUNA MADRE ES LINE 125 SITE 03

Station: PAIS0081 Parameter Code: 00300

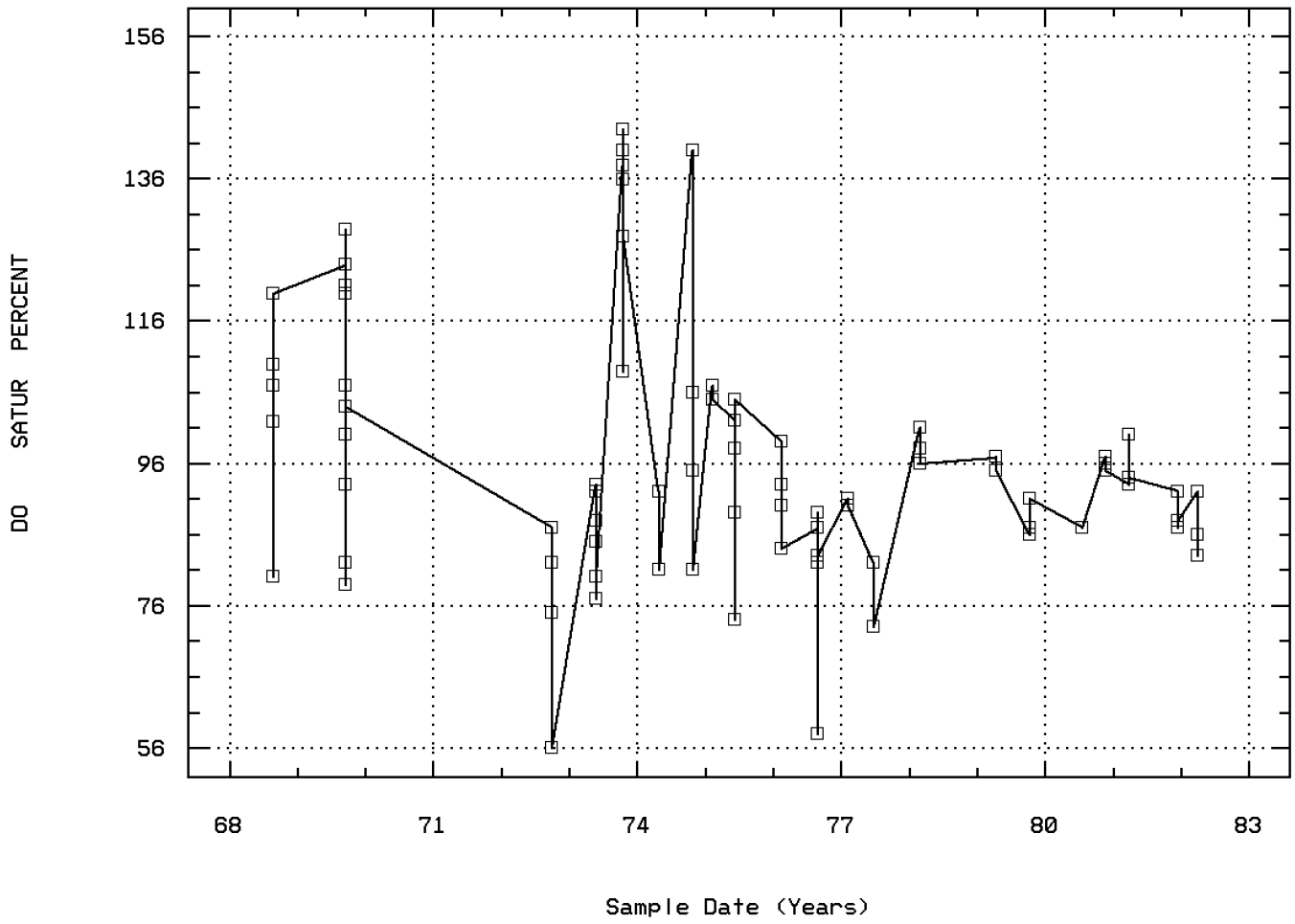
OXYGEN, DISSOLVED



1212503LAGUNA MADRE ES LINE 125 SITE 03

Station: PAIS0081 Parameter Code: 00301

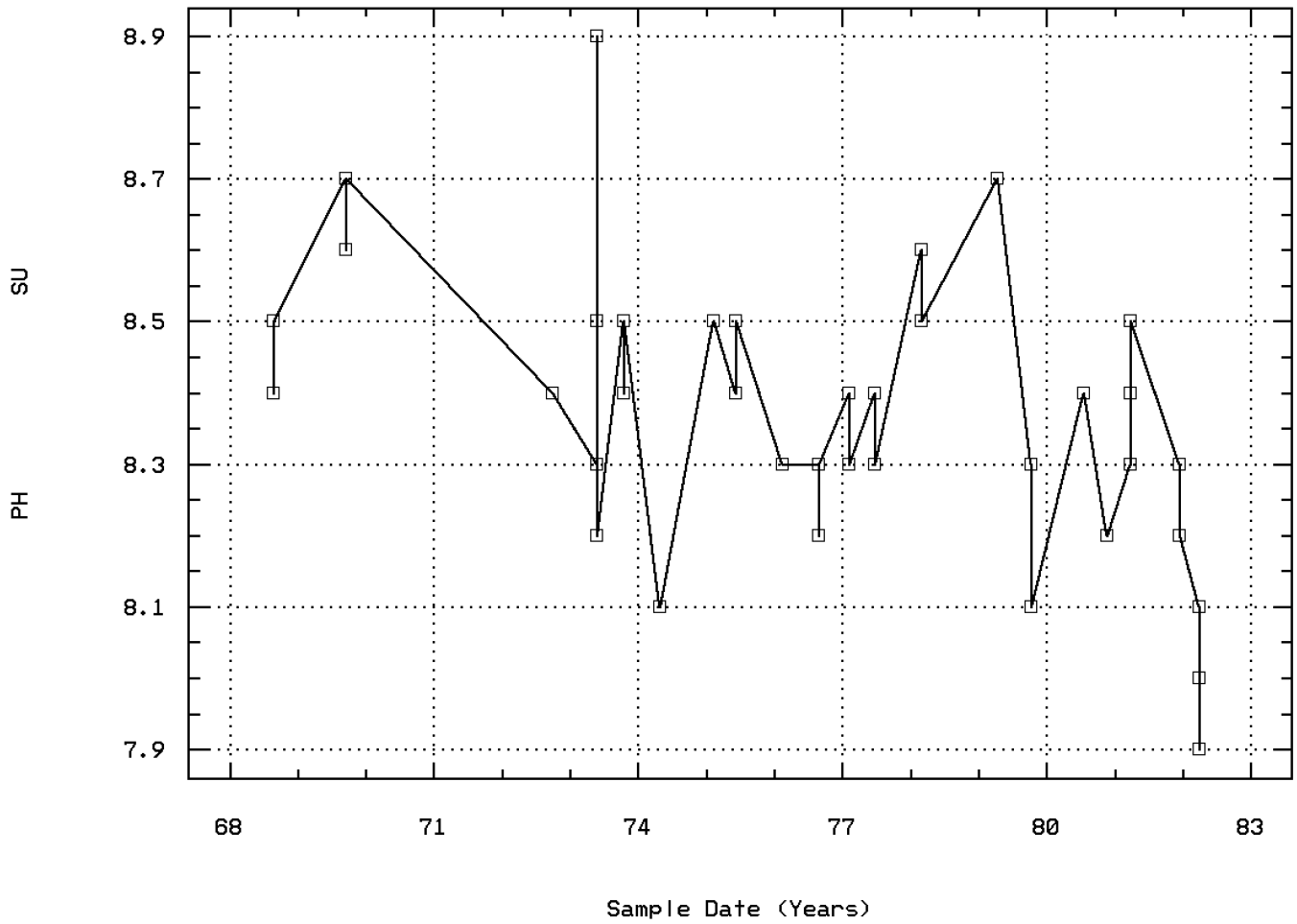
OXYGEN, DISSOLVED, PERCENT OF SATURATIO



1212503LAGUNA MADRE ES LINE 125 SITE 03

Station: PAIS0081 Parameter Code: 00400

PH (STANDARD UNITS)



1212503LAGUNA MADRE ES LINE 125 SITE 03

Annual Analysis for 1968 - Station PAIS0081

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/26/68-03/30/82	6	5.	5.167	12.	1.	16.967	4.119	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/68-03/30/82	6	30.4	30.483	31.1	29.6	0.318	0.564	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/26/68-03/30/82	6	55000.	55166.667	56000.	55000.	166666.667	408.248	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	08/26/68-03/30/82	6	6.4	6.2	7.1	4.7	0.648	0.805	**	**	**	**
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/26/68-03/30/82	6	106.9	104.25	119.9	80.	176.895	13.3	**	**	**	**
00400p	PH (STANDARD UNITS)	08/26/68-03/30/82	6	8.5	8.483	8.5	8.4	0.002	0.041	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	08/26/68-03/30/82	6	8.5	8.482	8.5	8.4	0.002	0.041	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/26/68-03/30/82	6	0.003	0.003	0.004	0.003	0.	0.	**	**	**	**

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

Annual Analysis for 1969 - Station PAIS0081

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/26/68-03/30/82	10	5.	5.6	17.	1.	24.711	4.971	1.	1.	7.75	16.3
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/68-03/30/82	10	29.05	29.12	29.8	28.8	0.113	0.336	28.8	28.8	29.325	29.76
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/26/68-03/30/82	10	68000.	66700.	69000.	62000.	5344444.444	2311.805	62300.	65000.	68250.	69000.
00300p	OXYGEN, DISSOLVED MG/L	08/26/68-03/30/82	10	6.05	6.1	7.6	4.5	1.211	1.101	4.52	5.15	7.15	7.57
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/26/68-03/30/82	10	105.4	105.84	128.9	79.	308.334	17.559	79.3	90.25	121.65	128.4
00400p	PH (STANDARD UNITS)	08/26/68-03/30/82	10	8.7	8.67	8.7	8.6	0.002	0.048	8.6	8.6	8.7	8.7
00400p	CONVERTED PH (STANDARD UNITS)	08/26/68-03/30/82	10	8.7	8.668	8.7	8.6	0.002	0.048	8.6	8.6	8.7	8.7
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/26/68-03/30/82	10	0.002	0.002	0.003	0.002	0.	0.	0.002	0.002	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 box-and-whisker plot

Annual Analysis for 1972 - Station PAIS0081

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/26/68-03/30/82	4	7.5	7.	12.	1.	24.667	4.967	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/68-03/30/82	4	27.45	27.525	27.8	27.4	0.036	0.189	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/26/68-03/30/82	4	57000.	57250.	58000.	57000.	250000.	500.	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	08/26/68-03/30/82	4	4.85	4.675	5.5	3.5	0.749	0.866	**	**	**	**
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/26/68-03/30/82	4	78.5	75.	87.	56.	184.667	13.589	**	**	**	**
00400p	PH (STANDARD UNITS)	08/26/68-03/30/82	4	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	08/26/68-03/30/82	4	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/26/68-03/30/82	4	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 PAIS0081

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/26/68-03/30/82	13	5.	6.385	16.	1.	25.59	5.059	1.	1.	10.	15.2
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/68-03/30/82	13	23.	24.754	28.1	22.7	4.773	2.185	22.74	22.85	26.95	27.82
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/26/68-03/30/82	12	35000.	34916.667	50000.	20000.	180083333.333	13419.513	20300.	21000.	50000.	50000.
00300p	OXYGEN, DISSOLVED MG/L	08/26/68-03/30/82	12	7.5	8.217	11.6	5.1	7.312	2.704	5.13	5.725	11.15	11.51
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/26/68-03/30/82	12	100.95	109.033	142.9	77.	677.004	26.019	77.9	85.75	137.4	142.
00400p	PH (STANDARD UNITS)	08/26/68-03/30/82	13	8.5	8.446	8.9	8.2	0.033	0.181	8.2	8.3	8.5	8.74
00400p	CONVERTED PH (STANDARD UNITS)	08/26/68-03/30/82	13	8.5	8.415	8.9	8.2	0.034	0.184	8.2	8.3	8.5	8.74
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/26/68-03/30/82	13	0.003	0.004	0.006	0.001	0.	0.001	0.002	0.003	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 box-and-whisker plot

Annual Analysis for 1974 - Station PAIS0081

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/26/68-03/30/82	8	7.5	7.75	17.	1.	32.786	5.726	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/68-03/30/82	8	24.3	24.175	24.9	23.5	0.382	0.618	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/26/68-03/30/82	8	56000.	55375.	69000.	41000.	190839285.714	13814.459	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	08/26/68-03/30/82	8	6.35	6.438	8.8	5.2	1.214	1.102	**	**	**	**
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/26/68-03/30/82	8	92.	95.975	139.9	81.	390.459	19.76	**	**	**	**
00400p	PH (STANDARD UNITS)	08/26/68-03/30/82	4	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	08/26/68-03/30/82	4	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/26/68-03/30/82	4	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 PAIS0081

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/26/68-03/30/82	9	6.	6.889	17.	1.	33.861	5.819	1.	1.	12.	17.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/68-03/30/82	9	26.1	23.489	27.	19.4	15.124	3.889	19.4	19.4	27.	27.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/26/68-03/30/82	9	51000.	52000.	55000.	50000.	4250000.	2061.553	50000.	50500.	54500.	55000.
00300p	OXYGEN, DISSOLVED MG/L	08/26/68-03/30/82	9	6.7	6.944	8.1	4.8	1.393	1.18	4.8	6.1	8.	8.1
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/26/68-03/30/82	9	104.9	98.844	106.9	74.	117.203	10.826	74.	93.5	104.95	106.9
00400p	PH (STANDARD UNITS)	08/26/68-03/30/82	9	8.5	8.467	8.5	8.4	0.002	0.05	8.4	8.4	8.5	8.5
00400p	CONVERTED PH (STANDARD UNITS)	08/26/68-03/30/82	9	8.5	8.464	8.5	8.4	0.003	0.05	8.4	8.4	8.5	8.5
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/26/68-03/30/82	9	0.003	0.003	0.004	0.003	0.	0.	0.003	0.003	0.004	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 box-and-whisker plot

Annual Analysis for 1976 - Station PAIS0081

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/26/68-03/30/82	10	5.5	5.6	15.	1.	25.6	5.06	1.	1.	8.5	14.8
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/68-03/30/82	10	23.75	23.78	29.4	18.3	31.02	5.57	18.31	18.475	29.1	29.37
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/26/68-03/30/82	10	55500.	55600.	63000.	48000.	47600000.	6899.275	48000.	48000.	63000.	63000.
00300p	OXYGEN, DISSOLVED MG/L	08/26/68-03/30/82	10	5.8	5.79	7.1	3.6	1.128	1.062	3.75	5.1	6.725	7.07
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/26/68-03/30/82	10	88.	85.8	99.	58.	122.844	11.084	60.4	82.75	93.	98.4
00400p	PH (STANDARD UNITS)	08/26/68-03/30/82	10	8.3	8.29	8.3	8.2	0.001	0.032	8.21	8.3	8.3	8.3
00400p	CONVERTED PH (STANDARD UNITS)	08/26/68-03/30/82	10	8.3	8.289	8.3	8.2	0.001	0.032	8.21	8.3	8.3	8.3
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/26/68-03/30/82	10	0.005	0.005	0.006	0.005	0.	0.	0.005	0.005	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 box-and-whisker plot

Annual Analysis for 1977 - Station PAIS0081

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/26/68-03/30/82	6	6.	6.833	14.	1.	32.167	5.672	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/68-03/30/82	6	18.75	18.833	28.5	9.5	104.567	10.226	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/26/68-03/30/82	6	42500.	42166.667	54000.	30000.	168166666.667	12967.909	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	08/26/68-03/30/82	6	6.95	6.85	8.9	4.4	4.787	2.188	**	**	**	**
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/26/68-03/30/82	6	86.	84.833	91.	73.	51.767	7.195	**	**	**	**
00400p	PH (STANDARD UNITS)	08/26/68-03/30/82	6	8.4	8.367	8.4	8.3	0.003	0.052	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	08/26/68-03/30/82	6	8.4	8.364	8.4	8.3	0.003	0.052	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/26/68-03/30/82	6	0.004	0.004	0.005	0.004	0.	0.001	**	**	**	**

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

Annual Analysis for 1978 - Station PAIS0081

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/26/68-03/30/82	3	8.	8.667	17.	1.	64.333	8.021	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/68-03/30/82	3	18.	18.167	18.5	18.	0.083	0.289	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/26/68-03/30/82	3	56000.	55666.667	56000.	55000.	333333.333	577.35	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	08/26/68-03/30/82	3	7.	7.067	7.3	6.9	0.043	0.208	**	**	**	**
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/26/68-03/30/82	3	98.	98.333	101.	96.	6.333	2.517	**	**	**	**
00400p	PH (STANDARD UNITS)	08/26/68-03/30/82	3	8.6	8.567	8.6	8.5	0.003	0.058	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	08/26/68-03/30/82	3	8.6	8.564	8.6	8.5	0.003	0.058	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/26/68-03/30/82	3	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**

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

Annual Analysis for 1979 - Station PAIS0081

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/26/68-03/30/82	5	8.	8.2	17.	1.	53.7	7.328	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/68-03/30/82	5	23.5	23.7	24.5	22.5	0.7	0.837	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/26/68-03/30/82	5	43000.	45600.	51000.	41000.	24800000.	4979.96	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	08/26/68-03/30/82	5	6.4	6.24	6.8	5.3	0.313	0.559	**	**	**	**
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/26/68-03/30/82	5	91.	91.2	97.	86.	23.2	4.817	**	**	**	**
00400p	PH (STANDARD UNITS)	08/26/68-03/30/82	5	8.3	8.42	8.7	8.1	0.072	0.268	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	08/26/68-03/30/82	5	8.3	8.357	8.7	8.1	0.077	0.277	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/26/68-03/30/82	5	0.005	0.004	0.008	0.002	0.	0.002	**	**	**	**

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

Annual Analysis for 1980 - Station PAIS0081

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/26/68-03/30/82	6	6.5	6.833	14.	1.	29.367	5.419	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/68-03/30/82	6	21.5	21.333	29.5	13.	80.067	8.948	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/26/68-03/30/82	6	53300.	53216.667	58500.	47700.	31913666.667	5649.218	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	08/26/68-03/30/82	6	6.9	6.95	8.6	5.4	2.887	1.699	**	**	**	**
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/26/68-03/30/82	6	91.	91.5	97.	87.	24.7	4.97	**	**	**	**
00400p	PH (STANDARD UNITS)	08/26/68-03/30/82	6	8.3	8.3	8.4	8.2	0.012	0.11	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	08/26/68-03/30/82	6	8.289	8.289	8.4	8.2	0.012	0.11	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/26/68-03/30/82	6	0.005	0.005	0.006	0.004	0.	0.001	**	**	**	**

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

Annual Analysis for 1981 - Station PAIS0081

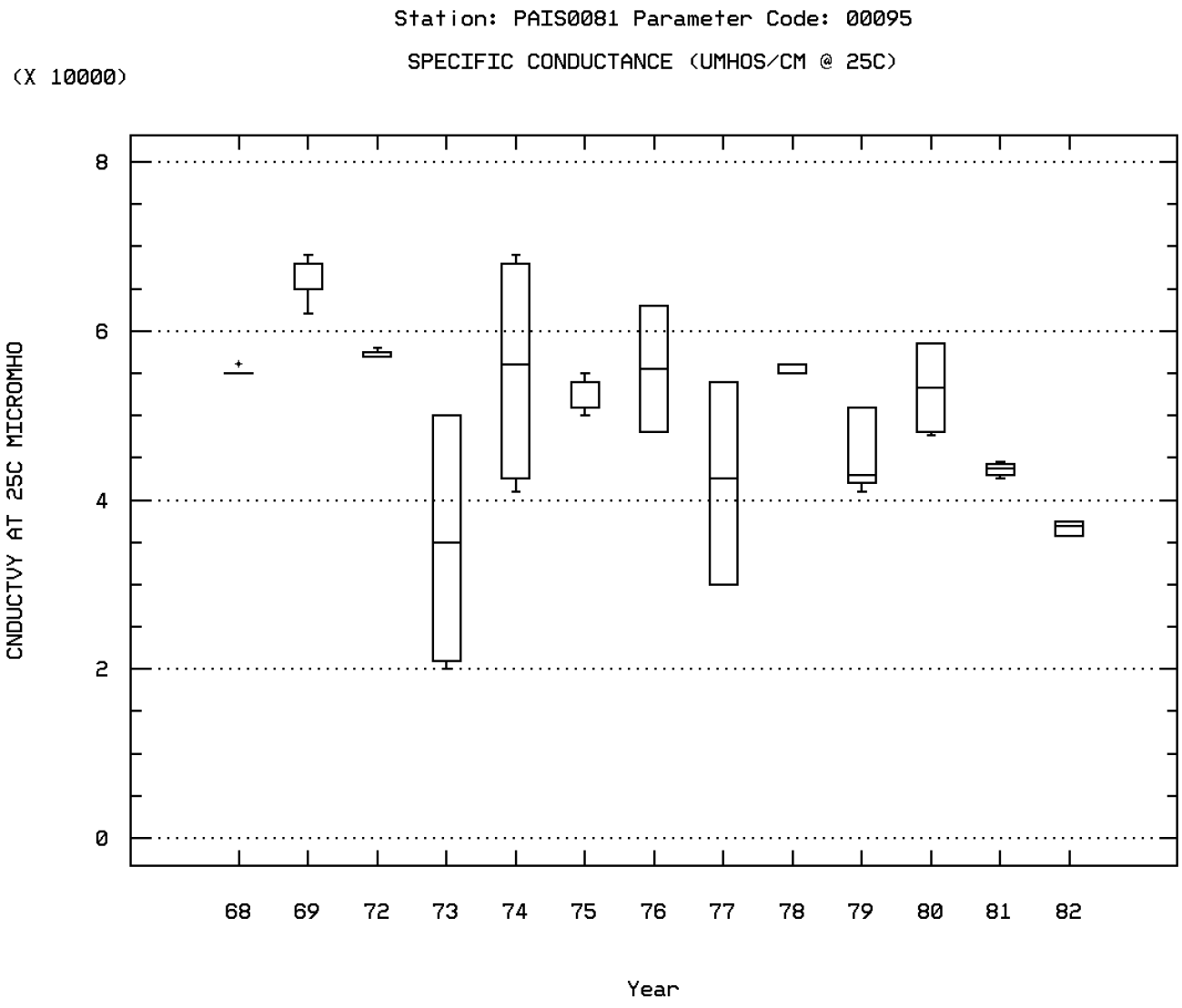
Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/26/68-03/30/82	6	7.	7.333	14.	1.	33.867	5.82	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/68-03/30/82	6	17.25	17.333	18.5	16.	1.267	1.125	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/26/68-03/30/82	6	43700.	43616.667	44500.	42600.	545666.667	738.693	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	08/26/68-03/30/82	6	7.6	7.617	8.1	7.3	0.082	0.286	**	**	**	**
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/26/68-03/30/82	6	92.5	92.333	100.	87.	21.867	4.676	**	**	**	**
00400p	PH (STANDARD UNITS)	08/26/68-03/30/82	6	8.3	8.333	8.5	8.2	0.011	0.103	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	08/26/68-03/30/82	6	8.3	8.323	8.5	8.2	0.011	0.104	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/26/68-03/30/82	6	0.005	0.005	0.006	0.003	0.	0.001	**	**	**	**

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

Annual Analysis for 1982 - Station PAIS0081

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/26/68-03/30/82	3	7.	7.	13.	1.	36.	6.	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/68-03/30/82	3	19.	19.333	20.	19.	0.333	0.577	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/26/68-03/30/82	3	36900.	36666.667	37400.	35700.	763333.333	873.689	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	08/26/68-03/30/82	3	7.	7.033	7.4	6.7	0.123	0.351	**	**	**	**
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/26/68-03/30/82	3	86.	87.	92.	83.	21.	4.583	**	**	**	**
00400p	PH (STANDARD UNITS)	08/26/68-03/30/82	3	8.	8.	8.1	7.9	0.01	0.1	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	08/26/68-03/30/82	3	8.	7.992	8.1	7.9	0.01	0.1	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/26/68-03/30/82	3	0.01	0.01	0.013	0.008	0.	0.002	**	**	**	**

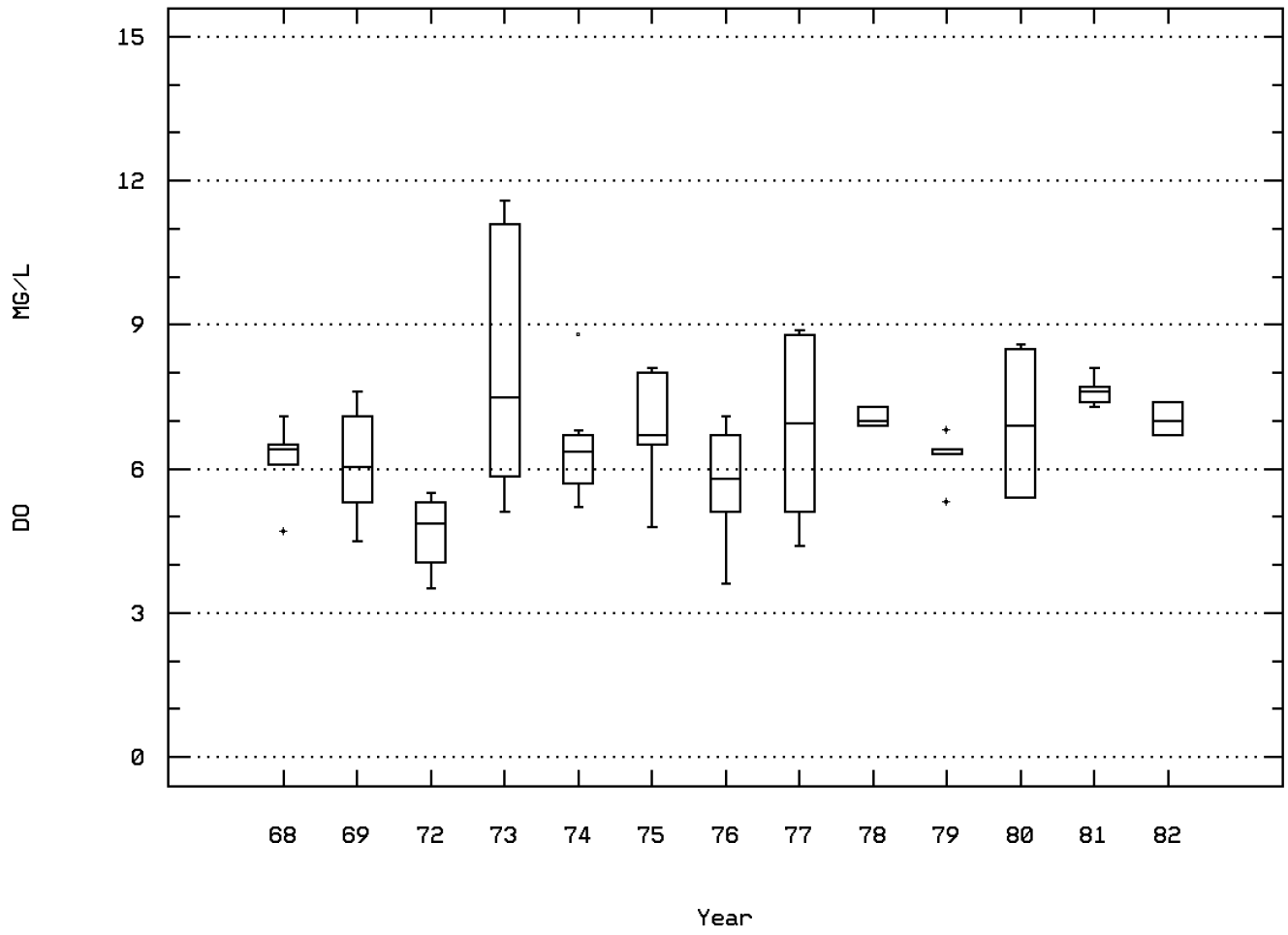
** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot



1212503LAGUNA MADRE ES LINE 125 SITE 03

Station: PAIS0081 Parameter Code: 00300

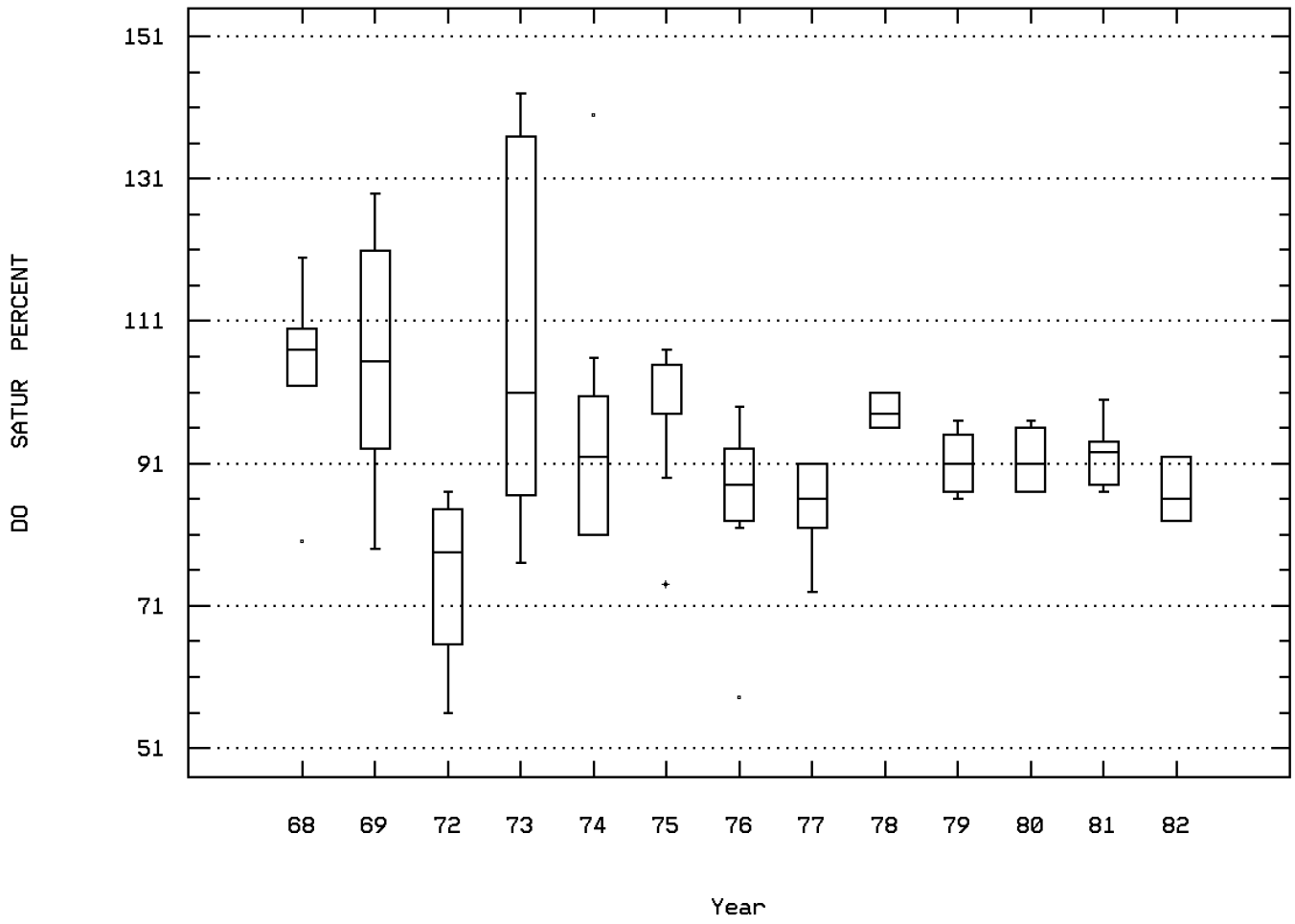
OXYGEN, DISSOLVED



1212503LAGUNA MADRE ES LINE 125 SITE 03

Station: PAIS0081 Parameter Code: 00301

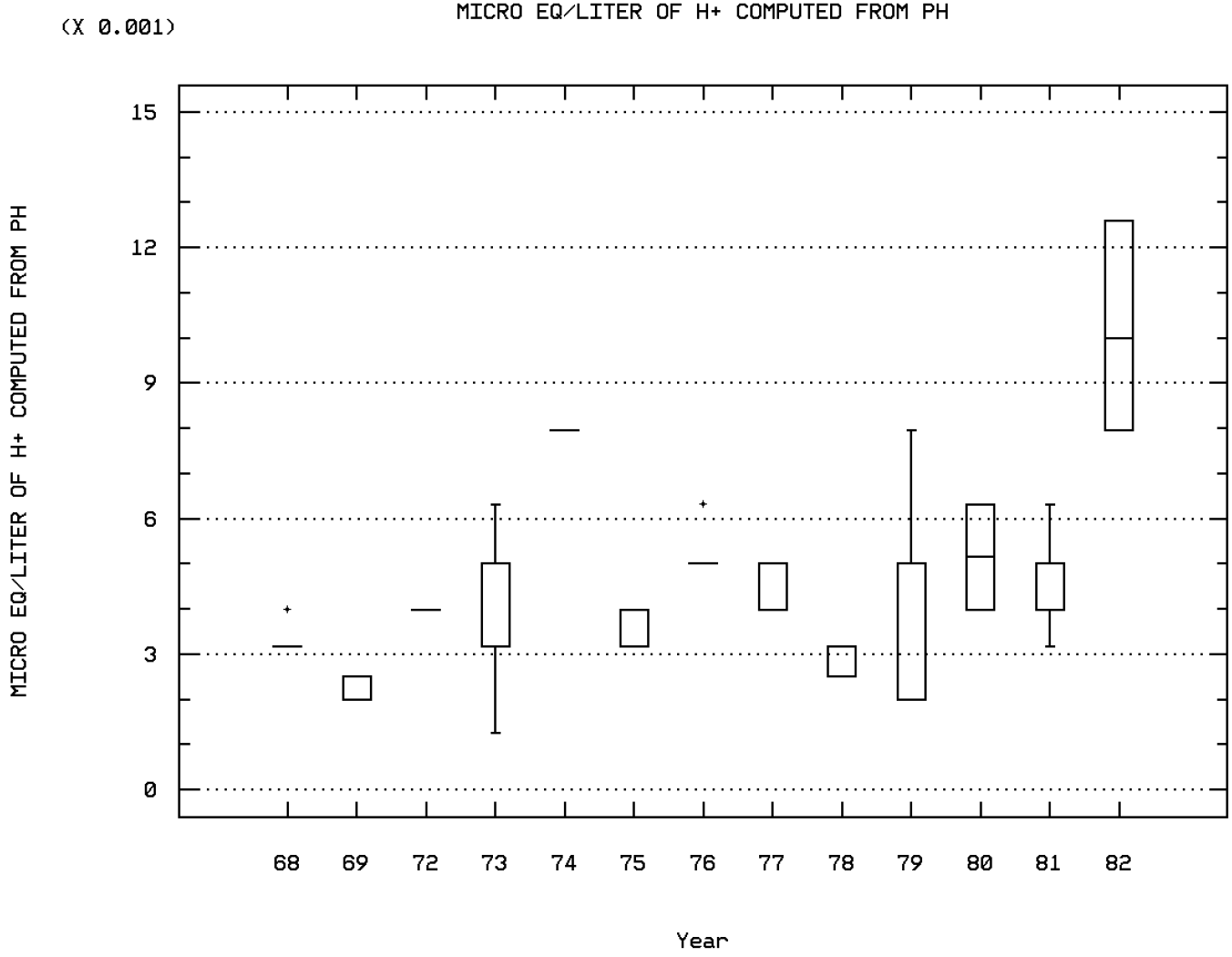
OXYGEN, DISSOLVED, PERCENT OF SATURATIO



1212503LAGUNA MADRE ES LINE 125 SITE 03

Station: PAIS0081 Parameter Code: 00400

MICRO EQ/LITER OF H+ COMPUTED FROM PH



1212503LAGUNA MADRE ES LINE 125 SITE 03

Seasonal Analysis for Season #1: 5/01 to 10/31 - Station PAIS0081

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/26/68-03/30/82	56	5.	6.304	17.	1.	25.306	5.031	1.	1.	10.	14.3
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/68-03/30/82	56	27.9	27.18	31.1	22.5	6.881	2.623	22.9	24.525	29.275	29.95
00078	TRANSPARENCY, SECCHI DISC (METERS)	08/26/68-03/30/82	17	0.94	2.057	10.79	0.58	10.532	3.245	0.604	0.67	1.37	10.558
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/26/68-03/30/82	55	55000.	52583.636	69000.	20000.	174406949.495	13206.322	26400.	48000.	62000.	68000.
00300	OXYGEN, DISSOLVED MG/L	08/26/68-03/30/82	55	6.1	6.324	11.6	3.5	3.397	1.843	4.66	5.1	6.8	9.44
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/26/68-03/30/82	55	91.	97.147	142.9	56.	425.581	20.63	76.2	82.	106.9	131.7
00310	BOD, 5 DAY, 20 DEG C MG/L	09/16/69-08/26/76	11	2.8	3.473	7.1	1.3	4.248	2.061	1.32	1.7	5.3	6.82
00400	PH (STANDARD UNITS)	08/26/68-03/30/82	52	8.4	8.454	8.9	8.1	0.025	0.159	8.3	8.325	8.5	8.7
00400	CONVERTED PH (STANDARD UNITS)	08/26/68-03/30/82	52	8.4	8.427	8.9	8.1	0.026	0.161	8.3	8.325	8.5	8.7
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/26/68-03/30/82	52	0.004	0.004	0.008	0.001	0.	0.001	0.002	0.003	0.005	0.005
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/16/69-03/30/82	10	122.	121.8	143.	81.	347.067	18.63	83.5	112.75	137.	143.
00440	BICARBONATE ION (MG/L AS HCO3)	09/16/69-07/16/80	10	148.5	148.1	174.	99.	498.544	22.328	102.	137.25	166.	173.8
00600	NITROGEN, TOTAL (MG/L AS N)	04/24/74-03/24/81	9	0.88	0.81	1.8	0.	0.419	0.648	0.	0.08	1.35	1.8
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	04/24/74-03/30/82	9	0.83	0.751	1.7	0.	0.382	0.618	0.	0.035	1.25	1.7
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/16/69-03/30/82	17	0.06	0.062	0.16	0.	0.002	0.048	0.	0.02	0.09	0.144
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	09/16/69-03/30/82	17	0.01	0.014	0.09	0.	0.	0.021	0.	0.004	0.015	0.036
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/16/69-03/24/81	17	0.	0.004	0.03	0.	0.	0.009	0.	0.	0.	0.022
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/24/74-03/30/82	9	0.88	0.806	1.8	0.	0.422	0.65	0.	0.07	1.35	1.8
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/24/74-03/30/82	9	0.02	0.026	0.05	0.	0.	0.018	0.	0.01	0.045	0.05
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/16/69-03/30/82	17	0.04	0.051	0.13	0.02	0.001	0.03	0.028	0.03	0.06	0.114
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	09/27/72-03/30/82	14	8.85	10.114	18.	3.4	18.341	4.283	4.75	7.25	13.5	17.5
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/16/69-03/30/82	10	6750.	6530.	8400.	2000.	3857888.889	1964.151	2310.	5475.	8325.	8400.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/16/69-03/30/82	10	6600.	6380.	8200.	1900.	3777333.333	1943.536	2200.	5350.	8200.	8200.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/16/69-03/30/82	10	475.	443.48	590.	169.9	20248.102	142.296	173.91	375.	546.225	587.49
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/16/69-03/30/82	10	1300.	1275.99	1700.	379.9	141691.023	376.419	451.91	1100.	1545.	1698.
00930	SODIUM, DISSOLVED (MG/L AS NA)	04/24/74-03/30/82	8	12000.	11912.5	15000.	9300.	3604107.143	1898.449	**	**	**	**
00931	SODIUM ADSORPTION RATIO	04/24/74-03/30/82	8	62.	62.125	67.	57.	15.839	3.98	**	**	**	**
00932	SODIUM, PERCENT	04/24/74-03/30/82	8	77.5	77.625	79.	76.	1.125	1.061	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	04/24/74-03/30/82	8	425.	443.75	600.	160.	20712.5	143.918	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/16/69-03/30/82	10	20500.	20200.	27000.	6200.	36053333.333	6004.443	7280.	17000.	24500.	26900.
00945	SULFATE, TOTAL (MG/L AS SO4)	09/16/69-03/30/82	10	2700.	2844.	3800.	900.	746471.111	863.986	1050.	2475.	3580.	3790.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/16/69-03/30/82	8	1.15	1.475	3.8	0.6	1.091	1.044	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/16/69-03/30/82	14	4.6	5.271	8.	2.7	3.576	1.891	2.75	4.025	7.45	8.
71887	NITROGEN, TOTAL, AS NO3 - MG/L	04/24/74-03/24/81	9	3.9	3.633	8.1	0.	8.58	2.929	0.	0.35	6.15	8.1

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

Seasonal Analysis for Season #2: 11/01 to 4/30 - Station PAIS0081

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/26/68-03/30/82	33	7.	7.242	17.	1.	30.502	5.523	1.	1.	13.	14.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/68-03/30/82	33	18.5	18.258	24.9	9.5	17.961	4.238	10.9	16.5	19.4	24.6
00078	TRANSPARENCY, SECCHI DISC (METERS)	08/26/68-03/30/82	9	0.79	0.739	1.05	0.41	0.054	0.232	0.41	0.54	0.965	1.05
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/26/68-03/30/82	33	47700.	47269.697	63000.	30000.	86675303.03	9309.957	32880.	41800.	53000.	62200.
00300	OXYGEN, DISSOLVED MG/L	08/26/68-03/30/82	33	7.3	7.321	8.9	5.3	0.902	0.95	5.86	6.65	8.05	8.72
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/26/68-03/30/82	33	93.	93.594	106.9	81.	45.262	6.728	83.4	90.	97.5	104.9
00310	BOD, 5 DAY, 20 DEG C MG/L	09/16/69-08/26/76	5	1.6	1.72	2.8	0.8	0.687	0.829	**	**	**	**
00400	PH (STANDARD UNITS)	08/26/68-03/30/82	33	8.3	8.324	8.7	7.9	0.039	0.197	8.1	8.2	8.5	8.6
00400	CONVERTED PH (STANDARD UNITS)	08/26/68-03/30/82	33	8.3	8.282	8.7	7.9	0.041	0.202	8.1	8.2	8.5	8.6
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/26/68-03/30/82	33	0.005	0.005	0.013	0.002	0.	0.002	0.003	0.003	0.006	0.008
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/16/69-03/30/82	9	166.	160.556	172.	135.	170.278	13.049	135.	149.	170.	172.
00440	BICARBONATE ION (MG/L AS HCO3)	09/16/69-07/16/80	5	200.	191.2	210.	164.	353.2	18.794	**	**	**	**
00600	NITROGEN, TOTAL (MG/L AS N)	04/24/74-03/24/81	12	1.	1.087	1.9	0.01	0.216	0.465	0.253	0.903	1.45	1.78
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	04/24/74-03/30/82	14	1.025	0.994	1.7	0.	0.14	0.374	0.355	0.855	1.2	1.45
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/16/69-03/30/82	19	0.05	0.101	0.38	0.	0.011	0.107	0.01	0.035	0.15	0.34
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	09/16/69-03/30/82	19	0.01	0.02	0.09	0.	0.001	0.026	0.	0.005	0.02	0.07
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/16/69-03/24/81	15	0.	0.027	0.22	0.	0.004	0.059	0.	0.	0.02	0.148

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

Seasonal Analysis for Season #2: 11/01 to 4/30 - Station PAIS0081

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/24/74-03/30/82	16	1.2	1.193	1.9	0.	0.215	0.464	0.567	0.923	1.5	1.83
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/24/74-03/30/82	16	0.01	0.049	0.31	0.	0.006	0.08	0.	0.01	0.05	0.205
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/16/69-03/30/82	19	0.06	0.072	0.24	0.005	0.004	0.061	0.02	0.04	0.08	0.23
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	09/27/72-03/30/82	16	8.9	9.3	22.	4.6	17.288	4.158	5.3	5.925	9.95	16.4
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/16/69-03/30/82	11	5500.	5709.091	7900.	3600.	1412909.091	1188.659	3760.	5000.	6500.	7700.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/16/69-03/30/82	9	5500.	5611.111	7800.	3400.	1771111.111	1330.831	3400.	4600.	6550.	7800.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/16/69-03/30/82	10	400.	408.	540.	280.	5084.444	71.305	286.	370.	455.	533.
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/16/69-03/30/82	10	1100.	1145.	1600.	700.	69672.222	263.955	717.	952.5	1325.	1580.
00930	SODIUM, DISSOLVED (MG/L AS NA)	04/24/74-03/30/82	10	9500.	9680.	13000.	6500.	3801777.778	1949.815	6550.	8500.	11000.	12800.
00931	SODIUM ADSORPTION RATIO	04/24/74-03/30/82	11	56.	55.545	64.	46.	28.273	5.317	46.2	53.	59.	63.2
00932	SODIUM, PERCENT	04/24/74-03/30/82	11	77.	77.182	79.	76.	0.764	0.874	76.	77.	78.	78.8
00935	POTASSIUM, DISSOLVED (MG/L AS K)	04/24/74-03/30/82	10	415.	376.	480.	220.	9093.333	95.359	223.	287.5	462.5	479.
00940	CHLORIDE,TOTAL IN WATER MG/L	09/16/69-03/30/82	10	18000.	17700.	24000.	11000.	12677777.778	3560.587	11300.	15500.	20000.	23600.
00945	SULFATE, TOTAL (MG/L AS SO4)	09/16/69-03/30/82	10	2450.	2470.	3300.	1500.	311222.222	557.873	1550.	2000.	2900.	3290.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/16/69-03/30/82	9	0.8	1.056	1.9	0.6	0.225	0.475	0.6	0.75	1.45	1.9
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/16/69-03/30/82	11	4.8	4.955	9.4	0.3	7.433	2.726	0.44	4.1	6.6	9.2
71887	NITROGEN, TOTAL, AS NO3 - MG/L	04/24/74-03/24/81	12	4.5	4.812	8.2	0.04	4.161	2.04	1.108	4.	6.475	7.75

** - 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

Station Inventory for Station: PAIS0082

NPS Station ID: PAIS0082
LAT/LON: 27.203615/ -97.432781
Agency: 112WRD
Date Created: 04/18/81
Location: 1212504LAGUNA MADRE ES LINE 125 SITE 04
FIPS State/County: 48261 TEXAS/KENEDY
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): 271213097255800
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110207
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 12110207001
RF1 Mile Point: 4.030
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 12110207078700.00
RF3 Mile Point: 0.13
Distance from RF3: 0.01
On/Off RF3:
Description:

Parameter Inventory for Station: PAIS0082

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/26/68-08/26/76	50	5.5	6.7	17.	1.	25.602	5.06	1.	1.	10.	14.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/68-08/26/76	50	24.9	25.122	30.4	18.3	14.031	3.746	19.4	22.875	28.7	29.39
00070	TURBIDITY, (JACKSON CANDLE UNITS)	09/27/72-02/11/76	33	10.	19.333	85.	0.	389.542	19.737	2.6	5.	30.	43.
00078	TRANSPARENCY, SECCHI DISC (METERS)	08/26/68-08/26/76	15	0.99	1.565	10.5	0.58	6.162	2.482	0.622	0.71	1.12	5.082
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/26/68-08/26/76	49	55000.	53428.571	69000.	20000.	136083333.333	11665.476	38000.	50000.	63000.	68000.
00300	OXYGEN, DISSOLVED MG/L	08/26/68-08/26/76	49	6.5	6.673	11.2	3.5	2.723	1.65	4.7	5.4	7.9	9.1
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/26/68-08/26/76	49	95.	98.963	139.9	56.	364.19	19.084	79.	82.5	107.9	128.
00310	BOD, 5 DAY, 20 DEG C MG/L	09/16/69-02/05/75	12	2.8	3.308	7.1	0.8	4.423	2.103	0.89	1.325	5.3	6.68
00400	PH (STANDARD UNITS)	08/26/68-08/26/76	44	8.4	8.384	8.7	8.1	0.027	0.164	8.1	8.3	8.5	8.6
00400	CONVERTED PH (STANDARD UNITS)	08/26/68-08/26/76	44	8.4	8.353	8.7	8.1	0.028	0.167	8.1	8.3	8.5	8.6
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/26/68-08/26/76	44	0.004	0.004	0.008	0.002	0.	0.002	0.003	0.003	0.005	0.008
00405	CARBON DIOXIDE (MG/L AS CO2)	09/16/69-02/05/75	3	0.5	0.6	0.9	0.4	0.07	0.265	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/16/69-02/05/75	5	143.	124.2	148.	81.	867.7	29.457	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	09/16/69-02/05/75	5	172.	150.8	180.	99.	1249.7	35.351	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00600	NITROGEN, TOTAL (MG/L AS N)	04/24/74-10/23/74	2	0.5	0.5	1.	0.	0.5	0.707	**	**	**	**
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	04/24/74-10/23/74	2	0.45	0.45	0.9	0.	0.405	0.636	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/16/69-02/05/75	12	0.045	0.053	0.14	0.	0.003	0.051	0.	0.003	0.1	0.131
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	09/16/69-02/05/75	12	0.008	0.014	0.09	0.	0.001	0.025	0.	0.	0.018	0.07
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/16/69-02/05/75	12	0.	0.005	0.03	0.	0.	0.01	0.	0.	0.008	0.027
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/24/74-10/23/74	2	0.5	0.5	1.	0.	0.5	0.707	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/24/74-10/23/74	2	0.02	0.02	0.04	0.	0.001	0.028	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/16/69-10/17/73	6	0.045	0.063	0.17	0.	0.004	0.061	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/16/69-02/05/75	12	0.06	0.092	0.24	0.03	0.006	0.074	0.03	0.033	0.125	0.237
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/16/69-10/17/73	6	0.015	0.021	0.055	0.	0.	0.02	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	09/27/72-02/05/75	8	11.5	12.313	18.	8.	15.353	3.918	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/16/69-02/05/75	7	6500.	6371.429	8400.	2000.	5432380.952	2330.747	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/16/69-02/05/75	5	8200.	6580.	8200.	1900.	7452000.	2729.835	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/16/69-02/05/75	6	505.	452.467	590.	169.9	24924.303	157.874	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/16/69-02/05/75	6	1300.	1243.317	1700.	379.9	234341.202	484.088	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	04/24/74-02/05/75	4	12500.	12375.	15000.	9500.	6562500.	2561.738	**	**	**	**
00931	SODIUM ADSORPTION RATIO	04/24/74-02/05/75	5	59.	61.	67.	56.	31.5	5.612	**	**	**	**
00932	SODIUM, PERCENT	04/24/74-02/05/75	5	77.	77.	77.	77.	0.	0.	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	09/16/69-04/24/74	3	9700.	8900.	13400.	3600.	24490000.	4948.737	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	04/24/74-02/05/75	4	505.	507.5	600.	420.	9158.333	95.699	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/16/69-02/05/75	6	21900.	19833.333	27000.	6200.	61142666.667	7819.378	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	09/16/69-02/05/75	6	3120.	2856.667	3800.	900.	1209666.667	1099.848	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/16/69-02/05/75	3	0.9	1.1	1.8	0.6	0.39	0.624	**	**	**	**

** - Less than 9 observations ## - 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: PAIS0082

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/16/69-02/05/75	11	4.8	5.118	8.	2.7	2.39	1.546	2.92	4.1	6.	7.86
01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/23/74-10/23/74	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	09/16/69-09/16/69	1	6300.	6300.	6300.	6300.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	10/23/74-10/23/74	1	9.	9.	9.	9.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/23/74-10/23/74	1	200.	200.	200.	200.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	10/23/74-10/23/74	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/23/74-10/23/74	1	130.	130.	130.	130.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	10/23/74-10/23/74	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/23/74-10/23/74	1	7200.	7200.	7200.	7200.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	10/23/74-10/23/74	1	80.	80.	80.	80.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/23/74-10/23/74	1	50.	50.	50.	50.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/23/74-10/23/74	1	200.	200.	200.	200.	0.	0.	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	10/23/74-10/23/74	1	10.	10.	10.	10.	0.	0.	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	10/23/74-10/23/74	1	1.	1.	1.	1.	0.	0.	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			10.								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			1.								
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4	GEOMETRIC MEAN =			1.								
32230	CHLOROPHYLL A (MG/L)	10/23/74-10/23/74	1	0.007	0.007	0.007	0.007	0.	0.	**	**	**	**
32231	CHLOROPHYLL B (MG/L)	10/23/74-10/23/74	1	0.007	0.007	0.007	0.007	0.	0.	**	**	**	**
32232	CHLOROPHYLL C (MG/L)	10/23/74-10/23/74	1	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	05/23/73-02/05/75	8	0.	0.625	5.	0.	3.125	1.768	**	**	**	**
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39360	DDD IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/16/69-02/05/75	5	43100.	37080.	48400.	11300.	230197000.	15172.244	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/16/69-02/05/75	5	58.6	49.96	63.4	15.4	407.808	20.194	**	**	**	**
71865	IODIDE (MG/L AS I)	09/16/69-09/16/69	1	0.14	0.14	0.14	0.14	0.	0.	**	**	**	**
71870	BROMIDE (MG/L AS BR)	09/16/69-09/16/69	1	82.	82.	82.	82.	0.	0.	**	**	**	**
71887	NITROGEN, TOTAL, AS NO3 - MG/L	04/24/74-10/23/74	2	2.3	2.3	4.6	0.	10.58	3.253	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	10/23/74-10/23/74	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: PAIS0082

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------5/01-10/31---------- Obs	Exceed	Prop.	----------11/01-4/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	33	2	0.06	17	1	0.06	16	1	0.06						
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	49	1	0.02	33	1	0.03	16	0	0.00						
00400	PH	Marine Chronic	8.5	44	17	0.39	28	11	0.39	16	6	0.38						
		Other-Lo Lim.	6.5	44	0	0.00	28	0	0.00	16	0	0.00						
01000	ARSENIC, DISSOLVED	Marine Acute	69.	1	0	0.00	1	0	0.00									
01025	CADMIUM, DISSOLVED	Marine Acute	43.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Marine Acute	2.9	1	1	1.00	1	1	1.00									
01049	LEAD, DISSOLVED	Marine Acute	220.	1	0	0.00	1	0	0.00									
01065	NICKEL, DISSOLVED	Marine Acute	75.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Marine Acute	95.	1	0	0.00	1	0	0.00									
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	1	0	0.00	1	0	0.00									
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	1	0	0.00	1	0	0.00									
39330	ALDRIN IN WHOLE WATER SAMPLE	Marine Acute	1.3	1	0	0.00	1	0	0.00									
39340	GAMMA-BHC(LINDANE), WHOLE WATER	Marine Acute	0.16	1	0	0.00	1	0	0.00									
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATE	Marine Acute	0.09	1	0	0.00	1	0	0.00									
39360	DDD IN WHOLE WATER SAMPLE	Marine Acute	3.6	1	0	0.00	1	0	0.00									
39365	DDE IN WHOLE WATER SAMPLE	Marine Acute	14.	1	0	0.00	1	0	0.00									
39370	DDT IN WHOLE WATER SAMPLE	Marine Acute	0.13	1	0	0.00	1	0	0.00									
39380	DIELDRIN IN WHOLE WATER SAMPLE	Marine Acute	0.71	1	0	0.00	1	0	0.00									
39390	ENDRIN IN WHOLE WATER SAMPLE	Marine Acute	0.037	1	0	0.00	1	0	0.00									
39400	TOXAPHENE IN WHOLE WATER SAMPLE	Marine Acute	0.21	1	0	0.00	1	0	0.00									
39410	HEPTACHLOR IN WHOLE WATER SAMPLE	Marine Acute	0.053	1	0	0.00	1	0	0.00									
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE	Marine Acute	0.053	1	0	0.00	1	0	0.00									
71890	MERCURY, DISSOLVED	Marine Acute	2.1	1	0	0.00	1	0	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: 5/01 to 10/31 - Station PAIS0082

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/26/68-08/26/76	34	6.	6.794	17.	1.	26.471	5.145	1.	1.	10.	15.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/68-08/26/76	34	27.55	26.938	30.4	22.8	6.535	2.556	22.95	23.875	28.875	29.95
00078	TRANSPARENCY, SECCHI DISC (METERS)	08/26/68-08/26/76	10	0.975	1.881	10.5	0.58	9.238	3.039	0.587	0.695	1.208	9.597
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/26/68-08/26/76	33	57000.	55393.939	69000.	20000.	161246212.121	12698.276	36000.	50000.	67500.	68600.
00300	OXYGEN, DISSOLVED MG/L	08/26/68-08/26/76	33	6.1	6.37	11.2	3.5	3.056	1.748	4.64	5.1	7.2	8.72
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/26/68-08/26/76	33	98.	99.118	139.9	56.	451.395	21.246	76.2	81.5	114.4	134.74
00400	PH (STANDARD UNITS)	08/26/68-08/26/76	28	8.4	8.429	8.7	8.2	0.019	0.138	8.2	8.4	8.5	8.61
00400	CONVERTED PH (STANDARD UNITS)	08/26/68-08/26/76	28	8.4	8.408	8.7	8.2	0.02	0.14	8.2	8.4	8.5	8.61
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/26/68-08/26/76	28	0.004	0.004	0.006	0.002	0.	0.001	0.002	0.003	0.004	0.006

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

Seasonal Analysis for Season #2: 11/01 to 4/30 - Station PAIS0082

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/26/68-08/26/76	16	5.5	6.5	17.	1.	25.333	5.033	1.	1.	10.	14.2
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/68-08/26/76	16	19.5	21.263	24.9	18.3	8.092	2.845	18.44	19.4	24.75	24.9
00078	TRANSPARENCY, SECCHI DISC (METERS)	08/26/68-08/26/76	5	1.02	0.934	1.12	0.69	0.034	0.184	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/26/68-08/26/76	16	51000.	49375.	63000.	38000.	65450000.	8090.117	38000.	41750.	51000.	63000.
00300	OXYGEN, DISSOLVED MG/L	08/26/68-08/26/76	16	6.65	7.3	9.4	5.7	1.572	1.254	5.7	6.5	8.075	9.33
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/26/68-08/26/76	16	92.5	98.644	123.9	81.	202.269	14.222	81.	89.	106.4	122.5
00400	PH (STANDARD UNITS)	08/26/68-08/26/76	16	8.3	8.306	8.5	8.1	0.033	0.181	8.1	8.1	8.5	8.5
00400	CONVERTED PH (STANDARD UNITS)	08/26/68-08/26/76	16	8.3	8.271	8.5	8.1	0.034	0.184	8.1	8.1	8.5	8.5
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/26/68-08/26/76	16	0.005	0.005	0.008	0.003	0.	0.002	0.003	0.003	0.008	0.008

** - Less than 9 observations ## - Computed 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: PAIS0083

NPS Station ID: PAIS0083 | LAT/LON: 27.206003/ -97.393366 | Agency: 11NPSWRD | Date Created: 02/20/99
Location: UPPER LAGUNA MADRE TRANSECT 12 SITE 1 | FIPS State/County: 48261 TEXAS/KENEDY
Station Type: /TYPA/AMBNT/ESTURY | STORET Station ID(s): PAIS_TWDB_12-1
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 12110207 | Depth of Water: 0 | Aquifer:
Major Basin: WESTERN GULF | Elevation: 0 | Water Body Id:
Minor Basin: NUECES RIVER | ECO Region:
RF1 Index: 12110207 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: 12110208252000.00 | RF3 Mile Point: 0.00 | Distance from RF3: 0.29 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE YARBOROUGH PASS TEXAS-KENEDY CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS INSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT TRANSECT 12 SITE 1 IN THE UPPER LAGUNA MADRE. DATA ARE FROM A SERIES OF YEARLY REPORTS (NUMBERS 117; 144; 171; AND 191) BY D. C. HAHL AND KARL W. RATZLAFF OF THE U.S. GEOLOGICAL SURVEY FOR THE TEXAS WATER DEVELOPMENT BOARD. THE REPORTS ARE TITLED "CHEMICAL AND PHYSICAL CHARACTERISTICS OF WATER IN ESTUARIES OF TEXAS SEPTEMBER 1967-SEPTEMBER 1968; OCTOBER 1968-SEPTEMBER 1969; OCTOBER 1969-SEPTEMBER 1970; AND OCTOBER 1970-SEPTEMBER 1971" AND WERE PUBLISHED IN MAY 1970; APRIL 1972; JUNE 1973; AND MAY 1975 RESPECTIVELY. THE PURPOSE OF THESE REPORTS WAS TO CREATE "A LONG-TERM RECORD OF THE CHEMICAL; PHYSICAL; AND HYDRAULIC CHARACTERISTICS OF THE TEXAS ESTUARINE SYSTEMS." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0083

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/26/68-09/16/69	6	6.	5.167	10.	1.	12.967	3.601	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/68-09/16/69	6	29.1	29.15	29.8	28.4	0.327	0.572	**	**	**	**
00078	TRANSPARENCY, SECCHI DISC (METERS)	08/26/68-09/16/69	2	0.66	0.66	1.27	0.05	0.744	0.863	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/26/68-09/16/69	6	70500.	67166.667	79000.	55000.	100966666.667	10048.217	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/26/68-09/16/69	6	6.55	5.433	7.5	0.	7.963	2.822	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/26/68-09/16/69	6	109.	93.833	132.	0.	2411.367	49.106	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	09/16/69-09/16/69	2	7.25	7.25	7.6	6.9	0.245	0.495	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	08/26/68-09/16/69	6	8.5	8.5	8.7	8.2	0.04	0.2	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	08/26/68-09/16/69	6	8.489	8.461	8.7	8.2	0.042	0.205	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/26/68-09/16/69	6	0.003	0.003	0.006	0.002	0.	0.002	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/16/69-09/16/69	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/16/69-09/16/69	2	0.11	0.11	0.18	0.04	0.01	0.099	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/16/69-09/16/69	2	0.1	0.1	0.18	0.02	0.013	0.113	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/16/69-09/16/69	2	4.7	4.7	6.2	3.2	4.5	2.121	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: PAIS0083

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	5/01-10/31 Obs	5/01-10/31 Exceed	5/01-10/31 Prop.	11/01-4/30 Obs	11/01-4/30 Exceed	11/01-4/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	5 &	0	0.00	5	0	0.00									
00406	PH, FIELD	Marine Chronic	8.5	6	3	0.50	6	3	0.50									
		Other-Lo Lim.	6.5	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: PAIS0084

NPS Station ID: PAIS0084 LAT/LON: 27.206753/ -97.410448 Agency: 11NPSWRD Date Created: 02/20/99
Location: UPPER LAGUNA MADRE TRANSECT 12 SITE 2 FIPS State/County: 48261 TEXAS/KENEDY
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): PAIS_TWDB_12-2
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110207 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110207 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE YARBOROUGH PASS TEXAS-KENEDY CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT TRANSECT 12 SITE 2 IN THE UPPER LAGUNA MADRE. DATA ARE FROM A SERIES OF YEARLY REPORTS (NUMBERS 117; 144; 171; AND 191) BY D. C. HAHL AND KARL W. RATZLAFF OF THE U.S. GEOLOGICAL SURVEY FOR THE TEXAS WATER DEVELOPMENT BOARD. THE REPORTS ARE TITLED "CHEMICAL AND PHYSICAL CHARACTERISTICS OF WATER IN ESTUARIES OF TEXAS SEPTEMBER 1967-SEPTEMBER 1968; OCTOBER 1968-SEPTEMBER 1969; OCTOBER 1969-SEPTEMBER 1970; AND OCTOBER 1970-SEPTEMBER 1971" AND WERE PUBLISHED IN MAY 1970; APRIL 1972; JUNE 1973; AND MAY 1975 RESPECTIVELY. THE PURPOSE OF THESE REPORTS WAS TO CREATE "A LONG-TERM RECORD OF THE CHEMICAL; PHYSICAL; AND HYDRAULIC CHARACTERISTICS OF THE TEXAS ESTUARINE SYSTEMS." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0084

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/16/69-09/16/69	3	5.	4.333	7.	1.	9.333	3.055	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/16/69-09/16/69	3	28.9	29.033	29.3	28.9	0.053	0.231	**	**	**	**
00078	TRANSPARENCY, SECCHI DISC (METERS)	09/16/69-09/16/69	1	0.06	0.06	0.06	0.06	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	09/16/69-09/16/69	3	68000.	67000.	68000.	65000.	3000000.	1732.051	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	09/16/69-09/16/69	3	6.9	6.8	7.6	5.9	0.73	0.854	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/16/69-09/16/69	3	121.	118.	129.	104.	163.	12.767	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	09/16/69-09/16/69	3	8.7	8.7	8.7	8.7	0.	0.	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	09/16/69-09/16/69	3	8.7	8.7	8.7	8.7	0.	0.	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/16/69-09/16/69	3	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: PAIS0084

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	5/01-10/31 Obs	5/01-10/31 Exceed	5/01-10/31 Prop.	11/01-4/30 Obs	11/01-4/30 Exceed	11/01-4/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	3	0	0.00	3	0	0.00									
00406	PH, FIELD	Marine Chronic	8.5	3	3	1.00	3	3	1.00									
		Other-Lo Lim.	6.5	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: PAIS0085

NPS Station ID: PAIS0085 LAT/LON: 27.207476/ -97.425671 Agency: 11NPSWRD Date Created: 02/20/99
Location: UPPER LAGUNA MADRE TRANSECT 12 SITE 3 FIPS State/County: 48261 TEXAS/KENEDY
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): PAIS_TWDB_12-3
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110207 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110207 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE YARBOROUGH PASS TEXAS-KENEDY CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT TRANSECT 12 SITE 3 IN THE UPPER LAGUNA MADRE. DATA ARE FROM A SERIES OF YEARLY REPORTS (NUMBERS 117; 144; 171; AND 191) BY D. C. HAHL AND KARL W. RATZLAFF OF THE U.S. GEOLOGICAL SURVEY FOR THE TEXAS WATER DEVELOPMENT BOARD. THE REPORTS ARE TITLED "CHEMICAL AND PHYSICAL CHARACTERISTICS OF WATER IN ESTUARIES OF TEXAS SEPTEMBER 1967-SEPTEMBER 1968; OCTOBER 1968-SEPTEMBER 1969; OCTOBER 1969-SEPTEMBER 1970; AND OCTOBER 1970-SEPTEMBER 1971" AND WERE PUBLISHED IN MAY 1970; APRIL 1972; JUNE 1973; AND MAY 1975 RESPECTIVELY. THE PURPOSE OF THESE REPORTS WAS TO CREATE "A LONG-TERM RECORD OF THE CHEMICAL; PHYSICAL; AND HYDRAULIC CHARACTERISTICS OF THE TEXAS ESTUARINE SYSTEMS." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0085

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/26/68-09/16/69	9	5.	6.778	17.	1.	28.694	5.357	1.	2.	11.	17.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/68-09/16/69	9	29.3	29.511	30.4	28.8	0.484	0.695	28.8	28.8	30.35	30.4
00078	TRANSPARENCY, SECCHI DISC (METERS)	08/26/68-09/16/69	2	0.77	0.77	1.47	0.07	0.98	0.99	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/26/68-09/16/69	9	65000.	61888.889	69000.	55000.	41861111.111	6470.016	55000.	55000.	68500.	69000.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/16/69-09/16/69	1	65200.	65200.	65200.	65200.	0.	0.	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/26/68-09/16/69	9	6.1	5.833	7.3	4.5	1.138	1.067	4.5	4.7	6.75	7.3
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/26/68-09/16/69	9	102.	99.333	124.	79.	286.	16.912	79.	81.	113.5	124.
00310	BOD, 5 DAY, 20 DEG C MG/L	09/16/69-09/16/69	2	6.2	6.2	7.1	5.3	1.62	1.273	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	08/26/68-09/16/69	9	8.6	8.567	8.7	8.4	0.01	0.1	8.4	8.5	8.65	8.7
00406	CONVERTED PH, FIELD, STANDARD UNITS	08/26/68-09/16/69	9	8.6	8.556	8.7	8.4	0.01	0.101	8.4	8.5	8.65	8.7
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/26/68-09/16/69	9	0.003	0.003	0.004	0.002	0.	0.001	0.002	0.002	0.003	0.004
00440	BICARBONATE ION (MG/L AS HCO3)	09/16/69-09/16/69	1	129.	129.	129.	129.	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/16/69-09/16/69	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/16/69-09/16/69	2	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/16/69-09/16/69	2	0.015	0.015	0.02	0.01	0.	0.007	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/16/69-09/16/69	1	8190.	8190.	8190.	8190.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/16/69-09/16/69	1	565.	565.	565.	565.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/16/69-09/16/69	1	1680.	1680.	1680.	1680.	0.	0.	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	09/16/69-09/16/69	1	13400.	13400.	13400.	13400.	0.	0.	**	**	**	**

** - Less than 9 observations ## - 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: PAIS0085

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00940	CHLORIDE,TOTAL IN WATER MG/L	09/16/69-09/16/69	1	23800.	23800.	23800.	23800.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	09/16/69-09/16/69	1	3540.	3540.	3540.	3540.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/16/69-09/16/69	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/16/69-09/16/69	2	3.25	3.25	3.8	2.7	0.605	0.778	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	09/16/69-09/16/69	1	6300.	6300.	6300.	6300.	0.	0.	**	**	**	**
46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	09/16/69-09/16/69	1	8300.	8300.	8300.	8300.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/16/69-09/16/69	1	43100.	43100.	43100.	43100.	0.	0.	**	**	**	**
71865	IODIDE (MG/L AS I)	09/16/69-09/16/69	1	0.14	0.14	0.14	0.14	0.	0.	**	**	**	**
71870	BROMIDE (MG/L AS BR)	09/16/69-09/16/69	1	82.	82.	82.	82.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: PAIS0085

				Total	Exceed	Prop.	----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------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.	9	0	0.00	9	0	0.00									
00406	PH, FIELD	Marine Chronic	8.5	9	8	0.89	9	8	0.89									
		Other-Lo Lim.	6.5	9	0	0.00	9	0	0.00									

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

Station Inventory for Station: PAIS0086

NPS Station ID: PAIS0086 LAT/LON: 27.207671/ -97.431392 Agency: 11NPSWRD Date Created: 02/20/99
Location: UPPER LAGUNA MADRE TRANSECT 12 SITE 4 FIPS State/County: 48261 TEXAS/KENEDY
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): PAIS_TWDB_12-4
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110207 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110207 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE YARBOROUGH PASS TEXAS-KENEDY CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT TRANSECT 12 SITE 4 IN THE UPPER LAGUNA MADRE. DATA ARE FROM A SERIES OF YEARLY REPORTS (NUMBERS 117; 144; 171; AND 191) BY D. C. HAHL AND KARL W. RATZLAFF OF THE U.S. GEOLOGICAL SURVEY FOR THE TEXAS WATER DEVELOPMENT BOARD. THE REPORTS ARE TITLED "CHEMICAL AND PHYSICAL CHARACTERISTICS OF WATER IN ESTUARIES OF TEXAS SEPTEMBER 1967-SEPTEMBER 1968; OCTOBER 1968-SEPTEMBER 1969; OCTOBER 1969-SEPTEMBER 1970; AND OCTOBER 1970-SEPTEMBER 1971" AND WERE PUBLISHED IN MAY 1970; APRIL 1972; JUNE 1973; AND MAY 1975 RESPECTIVELY. THE PURPOSE OF THESE REPORTS WAS TO CREATE "A LONG-TERM RECORD OF THE CHEMICAL; PHYSICAL; AND HYDRAULIC CHARACTERISTICS OF THE TEXAS ESTUARINE SYSTEMS." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0086

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/26/68-09/16/69	4	3.	3.25	6.	1.	6.917	2.63	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/68-09/16/69	4	30.45	30.35	31.1	29.4	0.777	0.881	**	**	**	**
00078	TRANSPARENCY, SECCHI DISC (METERS)	08/26/68-09/16/69	2	0.795	0.795	1.52	0.07	1.051	1.025	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/26/68-09/16/69	4	58500.	60000.	68000.	55000.	39333333.333	6271.629	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/26/68-09/16/69	4	6.35	6.325	7.1	5.5	0.442	0.665	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/26/68-09/16/69	4	108.5	109.25	120.	100.	68.917	8.302	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	08/26/68-09/16/69	4	8.6	8.6	8.7	8.5	0.013	0.115	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	08/26/68-09/16/69	4	8.589	8.589	8.7	8.5	0.014	0.116	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/26/68-09/16/69	4	0.003	0.003	0.003	0.002	0.	0.001	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: PAIS0086

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	5/01-10/31 Obs	5/01-10/31 Exceed	5/01-10/31 Prop.	11/01-4/30 Obs	11/01-4/30 Exceed	11/01-4/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	4	0	0.00	4	0	0.00									
00406	PH, FIELD	Marine Chronic	8.5	4	4	1.00	4	4	1.00									
		Other-Lo Lim.	6.5	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: PAIS0087

NPS Station ID: PAIS0087 LAT/LON: 27.215948/ -97.423142 Agency: 11NPSWRD Date Created: 06/12/99
Location: BEACON 151 ON THE INTRACOASTAL WATERWAY FIPS State/County: 48261 TEXAS/KENEDY
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): PAIS_SMEV_151
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110207 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110207 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE YARBOROUGH PASS TEXAS-KENEDY CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT BEACON 151 ON THE INTRACOASTAL WATERWAY. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0087

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/06/75-11/06/75	1	24.5	24.5	24.5	24.5	0.	0.	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	11/06/75-11/06/75	1	34.3	34.3	34.3	34.3	0.	0.	**	**	**	**

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

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

Station Inventory for Station: PAIS0088

NPS Station ID: PAIS0088
LAT/LON: 27.231476/ -97.425309
Agency: 11NPSWRD
Date Created: 04/17/99
Location: STATION 34 UPPER LAGUNA MADRE
FIPS State/County: 48261 TEXAS/KENEDY
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SIMM_34
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110207
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110207
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE YARBOROUGH PASS TEXAS-KENEDY CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 34 IN THE UPPER LAGUNA MADRE. DATA ARE FROM A REPORT BY ERNEST G. SIMMONS OF THE TEXAS GAME AND FISH COMMISSION; "AN ECOLOGICAL SURVEY OF THE UPPER LAGUNA MADRE OF TEXAS." THE PURPOSE OF THIS REPORT WAS TO EXAMINE "PLANT LIFE; INVERTEBRATES AND VERTEBRATES OF THE AREA AND THE RELATIONSHIP OF THESE TO BASIC PHYSICAL AND BIOLOGICAL FACTORS IN THE ENVIRONMENT." THE DAY WAS ASSUMED TO BE THE 15TH OF EACH MONTH. DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0088

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/15/71-11/15/71	9	27.	25.833	31.	20.5	13.875	3.725	20.5	21.75	28.5	31.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/15/71-11/15/71	9	54.	53.	80.	25.	418.	20.445	25.	35.	74.	80.
00300	OXYGEN, DISSOLVED MG/L	01/15/71-11/15/71	9	7.	6.778	7.	6.	0.194	0.441	6.	6.5	7.	7.
00400	PH (STANDARD UNITS)	01/15/71-11/15/71	9	8.3	8.311	8.5	8.1	0.014	0.117	8.1	8.25	8.4	8.5
00400	CONVERTED PH (STANDARD UNITS)	01/15/71-11/15/71	9	8.3	8.297	8.5	8.1	0.014	0.118	8.1	8.25	8.4	8.5
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/15/71-11/15/71	9	0.005	0.005	0.008	0.003	0.	0.001	0.003	0.004	0.006	0.008
00480	SALINITY - PARTS PER THOUSAND	01/15/71-11/15/71	9	42.7	35.678	47.7	14.4	175.197	13.236	14.4	20.25	44.9	47.7

** - 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: PAIS0088

						----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	9	5	0.56	5	3	0.60	4	2	0.50						
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	9	0	0.00	5	0	0.00	4	0	0.00						
00400	PH	Marine Chronic	8.5	9	1	0.11	5	0	0.00	4	1	0.25						
		Other-Lo Lim.	6.5	9	0	0.00	5	0	0.00	4	0	0.00						

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

Station Inventory for Station: PAIS0089

NPS Station ID: PAIS0089
LAT/LON: 27.231476/ -97.425309
Agency: 11NPSWRD
Date Created: 04/17/99
Location: STATION 34 UPPER LAGUNA MADRE
FIPS State/County: 48261 TEXAS/KENEDY
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SIM2_34
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110207
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110207
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE YARBOROUGH PASS TEXAS-KENEDY CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 34 IN THE UPPER LAGUNA MADRE. DATA ARE FROM A REPORT BY ERNEST G. SIMMONS OF THE TEXAS GAME AND FISH COMMISSION; "AN ECOLOGICAL SURVEY OF THE UPPER LAGUNA MADRE OF TEXAS." THE PURPOSE OF THIS REPORT WAS TO EXAMINE "PLANT LIFE; INVERTEBRATES AND VERTEBRATES OF THE AREA AND THE RELATIONSHIP OF THESE TO BASIC PHYSICAL AND BIOLOGICAL FACTORS IN THE ENVIRONMENT." SALINITY DATA IS THE AVERAGE FOR THE MONTH. DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0089

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: PAIS0090

NPS Station ID: PAIS0090 LAT/LON: 27.240059/ -97.417837 Agency: 11NPSWRD Date Created: 06/12/99
Location: BEACON 139 ON THE INTRACOASTAL WATERWAY FIPS State/County: 48261 TEXAS/KENEDY
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): PAIS_SMEV_139
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110207 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110207 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE YARBOROUGH PASS TEXAS-KENEDY CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT BEACON 139 ON THE INTRACOASTAL WATERWAY. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0090

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/11/75-01/14/76	2	17.05	17.05	18.6	15.5	4.805	2.192	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	12/11/75-01/14/76	2	37.6	37.6	38.5	36.7	1.62	1.273	**	**	**	**

** - Less than 9 observations ## - 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: PAIS0091

NPS Station ID: PAIS0091 LAT/LON: 27.252531/ -97.415670 Agency: 11NPSWRD Date Created: 04/17/99
Location: LIGHT 133 ON THE INTRACOASTAL WATERWAY FIPS State/County: 48261 TEXAS/KENEDY
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): PAIS_CONO_133
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110207 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110207 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE POINT OF ROCKS TEXAS 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT LIGHT 133 ON THE INTRACOASTAL WATERWAY. DATA WERE COLLECTED ALONG A TRANSECT PERPENDICULAR TO THE WATERWAY AND AVERAGED FOR THE MONTH. DATA ARE FROM A REPORT BY JOHN T. CONOVER; "THE ECOLOGY; SEASONAL PERIODICITY; AND DISTRIBUTION OF BENTHIC PLANTS IN SOME TEXAS LAGOONS;" OCTOBER 1963. THE PURPOSE OF THIS REPORT WAS TO "STUDY THE LOCAL EFFECTS OF LIGHT; TEMPERATURE; AND SALINITY ON THE SEASONAL GROWTH OF PLANTS." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0091

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: PAIS0092

NPS Station ID: PAIS0092 LAT/LON: 27.264503/ -97.412531 Agency: 11NPSWRD Date Created: 06/12/99
Location: BEACON 127 ON THE INTRACOASTAL WATERWAY FIPS State/County: 48261 TEXAS/KENEDY
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): PAIS_SMEV_127
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110207 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110207 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE POINT OF ROCKS TEXAS 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT BEACON 127 ON THE INTRACOASTAL WATERWAY. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0092

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/06/75-11/06/75	1	24.6	24.6	24.6	24.6	0.	0.	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	11/06/75-11/06/75	1	37.2	37.2	37.2	37.2	0.	0.	**	**	**	**

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

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

Station Inventory for Station: PAIS0093

NPS Station ID: PAIS0093 LAT/LON: 27.268892/ -97.363893 Agency: 21TXDOH Date Created: 03/24/79
Location: EAST BAFFIN BAY WEST OF GRIFFINS POINT FIPS State/County: 48261 TEXAS/KENEDY
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): BAF00005
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 12110203 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: RIO GRANDE LOWER BELOW PECOS RIVER ECO Region:
RF1 Index: 12110203003 RF1 Mile Point: 60.570 Distance from RF1: 13.60 On/Off RF1: ON
RF3 Index: 12110205002606.85 RF3 Mile Point: 16.02 Distance from RF3: 1.82 On/Off RF3:
Description:
DATA FROM TEXAS STATE DEPARTMENT OF HEALTH FISH AND SHELLFISH SAMPLES ANALYZED FOR TOXICS SAMPLE TAKEN FROM
EAST BAFFIN BAY WEST OF GRIFFINS POINT

Parameter Inventory for Station: PAIS0093

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/17/77-05/17/77	2	2261.5	2261.5	2262.	2261.	0.5	0.707	**	**	**	**
00024	SAMPLE LENGTH IN INCHES	05/17/77-05/17/77	2	3.5	3.5	3.5	3.5	0.	0.	**	**	**	**
81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	05/17/77-05/17/77	2	2.	2.	2.	2.	0.	0.	**	**	**	**
81744	CADMIUM IN SHELLFISH TISSUE WET WEIGHT PPM(MG/KG)	05/17/77-05/17/77	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
81746	COPPER IN SHELLFISH TISSUE WET WEIGHT PPM(MG/KG)	05/17/77-05/17/77	2	6.25	6.25	7.2	5.3	1.805	1.344	**	**	**	**
81748	LEAD IN SHELLFISH TISSUE WET WEIGHT PPM(MG/KG)	05/17/77-05/17/77	2	0.35	0.35	0.4	0.3	0.005	0.071	**	**	**	**
81749	ZINC IN SHELLFISH TISSUE WET WEIGHT PPM(MG/KG)	05/17/77-05/17/77	2	49.	49.	50.	48.	2.	1.414	**	**	**	**
81770	MERCURY IN SHELLFISH TISSUE,WET WEIGHT,(PPM)MG/KG	05/17/77-05/17/77	2	0.25	0.25	0.28	0.22	0.002	0.042	**	**	**	**

** - Less than 9 observations ## - 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: PAIS0094

NPS Station ID: PAIS0094 LAT/LON: 27.272226/ -97.487504 Agency: 21TXDOH Date Created: 03/24/79
Location: EAST BAFFIN BAY EAST OF NEGROHEAD POINT FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): BAF00014
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110205 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: RIO GRANDE LOWER BELOW PECOS RIVER ECO Region:
RF1 Index: 12110205 RF1 Mile Point: 0.000 Distance from RF1: 19.20 On/Off RF1:
RF3 Index: 12110203021700.00 RF3 Mile Point: 0.00 Distance from RF3: 0.16 On/Off RF3:
Description:
DATA FROM TEXAS STATE DEPARTMENT OF HEALTH FISH AND SHELLFISH SAMPLES ANALYZED FOR TOXICS SAMPLE TAKEN FROM
EAST BAFFIN BAY EAST OF NEGROHEAD POINT

Parameter Inventory for Station: PAIS0094

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/07/77-07/07/77	2	1421.5	1421.5	1422.	1421.	0.5	0.707	**	**	**	**
00024	SAMPLE LENGTH IN INCHES	07/07/77-07/07/77	2	2.	2.	2.	2.	0.	0.	**	**	**	**
71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	07/07/77-07/07/77	2	0.37	0.37	0.42	0.32	0.005	0.071	**	**	**	**
81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	07/07/77-07/07/77	2	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

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

Station Inventory for Station: PAIS0095

NPS Station ID: PAIS0095
LAT/LON: 27.274976/ -97.430254
Agency: 11NPSWRD
Date Created: 06/12/99
Location: BAFFIN BAY
FIPS State/County: 48261 TEXAS/KENEDY
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SMEV_BB6
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110205
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110205
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE POINT OF ROCKS TEXAS 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION BB6 IN BAFFIN BAY. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0095

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/06/75-01/14/76	2	20.45	20.45	25.3	15.6	47.045	6.859	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	11/06/75-01/14/76	2	37.05	37.05	37.7	36.4	0.845	0.919	**	**	**	**

** - Less than 9 observations ## - 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: PAIS0096

NPS Station ID: PAIS0096
LAT/LON: 27.275003/ -97.421949
Agency: 112WRD
Date Created: 09/26/78
Location: 1211903LAGUNA MADRE ES LINE 119 SITE 03
FIPS State/County: 48261 TEXAS/KENEDY
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): 271630097251900
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110205
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 12110205001
RF1 Mile Point: 1.790
Distance from RF1: 15.40
On/Off RF1: ON
RF3 Index: 12110207046500.00
RF3 Mile Point: 0.00
Distance from RF3: 0.58
On/Off RF3:
Description:

Parameter Inventory for Station: PAIS0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/27/68-06/27/78	36	5.	4.611	10.	1.	9.444	3.073	1.	1.	8.	8.3
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/27/68-06/27/78	34	27.1	26.253	30.3	18.5	11.624	3.409	20.5	24.	29.125	30.1
00070	TURBIDITY, (JACKSON CANDLE UNITS)	09/27/72-06/04/75	20	25.	25.55	70.	0.	303.313	17.416	0.5	8.75	39.	41.8
00078	TRANSPARENCY, SECCHI DISC (METERS)	09/15/69-06/27/78	11	0.61	1.47	9.7	0.33	7.511	2.741	0.346	0.5	0.91	8.006
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/27/68-06/27/78	34	52000.	51841.176	73000.	9000.	257555222.816	16048.527	24500.	50000.	62075.	68500.
00300	OXYGEN, DISSOLVED MG/L	08/27/68-06/27/78	34	6.55	6.606	10.	4.2	1.601	1.265	5.3	5.575	7.2	8.45
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/27/68-06/27/78	34	96.	100.079	148.9	74.	313.464	17.705	81.	86.75	111.15	122.9
00310	BOD, 5 DAY, 20 DEG C MG/L	08/27/68-09/15/69	4	5.7	5.575	7.9	3.	6.429	2.536	**	**	**	**
00400	PH (STANDARD UNITS)	08/27/68-06/27/78	34	8.2	8.276	8.8	7.8	0.065	0.255	8.	8.1	8.5	8.6
00400	CONVERTED PH (STANDARD UNITS)	08/27/68-06/27/78	34	8.2	8.208	8.8	7.8	0.07	0.264	8.	8.1	8.5	8.6
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/27/68-06/27/78	34	0.006	0.006	0.016	0.002	0.	0.004	0.003	0.003	0.008	0.01
00405	CARBON DIOXIDE (MG/L AS CO2)	09/15/69-06/27/78	2	2.35	2.35	4.3	0.4	7.605	2.758	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/15/69-06/27/78	2	134.5	134.5	139.	130.	40.5	6.364	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	09/15/69-06/27/78	2	164.	164.	170.	158.	72.	8.485	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	06/27/78-06/27/78	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00600	NITROGEN, TOTAL (MG/L AS N)	06/27/78-06/27/78	2	1.45	1.45	1.6	1.3	0.045	0.212	**	**	**	**
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	06/27/78-06/27/78	2	1.45	1.45	1.6	1.3	0.045	0.212	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/27/68-06/27/78	6	0.01	0.097	0.44	0.	0.03	0.174	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/27/68-06/27/78	6	0.01	0.008	0.02	0.	0.	0.008	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/27/68-06/27/78	6	0.01	0.053	0.2	0.	0.007	0.081	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/27/78-06/27/78	2	1.45	1.45	1.6	1.3	0.045	0.212	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/27/78-06/27/78	2	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	08/27/68-09/15/69	4	0.26	0.568	1.6	0.15	0.485	0.696	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/27/68-06/27/78	6	0.065	0.15	0.53	0.05	0.036	0.189	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/27/68-09/15/69	4	0.085	0.183	0.51	0.05	0.049	0.221	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	06/27/78-06/27/78	2	10.25	10.25	11.	9.5	1.125	1.061	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/15/69-06/27/78	2	8100.	8100.	9100.	7100.	2000000.	1414.214	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/15/69-06/27/78	2	8000.	8000.	9000.	7000.	2000000.	1414.214	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/15/69-06/27/78	2	509.95	509.95	649.9	370.	39172.005	197.919	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/15/69-06/27/78	2	1660.	1660.	1820.	1500.	51200.	226.274	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	06/27/78-06/27/78	1	13000.	13000.	13000.	13000.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	06/27/78-06/27/78	1	67.	67.	67.	67.	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	06/27/78-06/27/78	1	79.	79.	79.	79.	0.	0.	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	09/15/69-09/15/69	1	14300.	14300.	14300.	14300.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	06/27/78-06/27/78	1	510.	510.	510.	510.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/15/69-06/27/78	2	24150.	24150.	25300.	23000.	2645000.	1626.346	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	09/15/69-06/27/78	2	3810.	3810.	4220.	3400.	336200.	579.828	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/15/69-06/27/78	2	1.1	1.1	1.2	1.	0.02	0.141	**	**	**	**

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

Parameter Inventory for Station: PAIS0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/15/69-06/27/78	3	6.	6.167	6.6	5.9	0.143	0.379	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	09/15/69-09/15/69	1	7800.	7800.	7800.	7800.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/15/69-09/15/69	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/15/69-09/15/69	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	09/15/69-09/15/69	1	7.	7.	7.	7.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	09/15/69-09/15/69	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	09/15/69-09/15/69	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/15/69-09/15/69	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	09/15/69-09/15/69	1	12000.	12000.	12000.	12000.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	09/15/69-09/15/69	1	40.	40.	40.	40.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	09/15/69-09/15/69	1	240.	240.	240.	240.	0.	0.	**	**	**	**
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	09/15/69-09/15/69	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	09/15/69-09/15/69	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	09/15/69-09/15/69	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39360	DDD IN WHOLE WATER SAMPLE (UG/L)	09/15/69-09/15/69	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	09/15/69-09/15/69	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	09/15/69-09/15/69	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	09/15/69-09/15/69	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	09/15/69-09/15/69	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	09/15/69-09/15/69	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	09/15/69-09/15/69	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	09/15/69-09/15/69	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	09/15/69-09/15/69	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	09/15/69-09/15/69	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	09/15/69-09/15/69	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	09/15/69-09/15/69	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	09/15/69-09/15/69	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	09/15/69-09/15/69	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	09/15/69-09/15/69	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	09/15/69-09/15/69	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	09/15/69-09/15/69	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39782	LINDANE IN WHOLE WATER SAMPLE (UG/L)	09/15/69-09/15/69	1	0.	0.	0.	0.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/15/69-06/27/78	2	44150.	44150.	46400.	41900.	10125000.	3181.981	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/15/69-06/27/78	2	60.05	60.05	63.1	57.	18.605	4.313	**	**	**	**
71865	IODIDE (MG/L AS I)	09/15/69-09/15/69	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
71870	BROMIDE (MG/L AS BR)	09/15/69-09/15/69	1	90.	90.	90.	90.	0.	0.	**	**	**	**
71887	NITROGEN, TOTAL, AS NO3 - MG/L	06/27/78-06/27/78	2	6.5	6.5	7.2	5.8	0.98	0.99	**	**	**	**

** - 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 time series plot

EPA Water Quality Criteria Analysis for Station: PAIS0096

				Total	Exceed	Prop.	----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------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.	20	1	0.05	14	0	0.00	6	1	0.17						
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	34	0	0.00	28	0	0.00	6	0	0.00						
00400	PH	Marine Chronic	8.5	34	11	0.32	28	11	0.39	6	0	0.00						
		Other-Lo Lim.	6.5	34	0	0.00	28	0	0.00	6	0	0.00						
01025	CADMIUM, DISSOLVED	Marine Acute	43.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Marine Acute	2.9	1	1	1.00	1	1	1.00									
01049	LEAD, DISSOLVED	Marine Acute	220.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Marine Acute	95.	1	0	0.00	1	0	0.00									
39330	ALDRIN IN WHOLE WATER SAMPLE	Marine Acute	1.3	1	0	0.00	1	0	0.00									
39360	DDD IN WHOLE WATER SAMPLE	Marine Acute	3.6	1	0	0.00	1	0	0.00									
39365	DDE IN WHOLE WATER SAMPLE	Marine Acute	14.	1	0	0.00	1	0	0.00									
39370	DDT IN WHOLE WATER SAMPLE	Marine Acute	0.13	1	0	0.00	1	0	0.00									
39380	DIELDRIN IN WHOLE WATER SAMPLE	Marine Acute	0.71	1	0	0.00	1	0	0.00									
39390	ENDRIN IN WHOLE WATER SAMPLE	Marine Acute	0.037	1	0	0.00	1	0	0.00									
39410	HEPTACHLOR IN WHOLE WATER SAMPLE	Marine Acute	0.053	1	0	0.00	1	0	0.00									
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE	Marine Acute	0.053	1	0	0.00	1	0	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: PAIS0096

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	5/01-10/31 Obs	5/01-10/31 Exceed	5/01-10/31 Prop.	11/01-4/30 Obs	11/01-4/30 Exceed	11/01-4/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
39782 LINDANE IN WHOLE WATER SAMPLE	Marine Acute	0.16	1	0	0.00	1	0	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: 5/01 to 10/31 - Station PAIS0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/27/68-06/27/78	30	5.	4.533	10.	1.	9.637	3.104	1.	1.	8.	8.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/27/68-06/27/78	28	27.6	27.236	30.3	22.4	6.35	2.52	22.6	26.125	29.275	30.2
00078	TRANSPARENCY, SECCHI DISC (METERS)	09/15/69-06/27/78	9	0.61	1.604	9.7	0.33	9.244	3.04	0.33	0.485	0.81	9.7
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/27/68-06/27/78	28	57000.	53878.571	73000.	9000.	278421005.291	16685.952	13500.	52000.	62300.	69400.
00300	OXYGEN, DISSOLVED MG/L	08/27/68-06/27/78	28	6.15	6.575	10.	4.2	1.937	1.392	5.26	5.5	7.275	8.58
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/27/68-06/27/78	28	99.5	102.382	148.9	74.	346.802	18.623	79.8	87.25	112.65	129.7
00400	PH (STANDARD UNITS)	08/27/68-06/27/78	28	8.35	8.3	8.8	7.8	0.075	0.274	7.98	8.1	8.5	8.62
00400	CONVERTED PH (STANDARD UNITS)	08/27/68-06/27/78	28	8.347	8.219	8.8	7.8	0.082	0.286	7.98	8.1	8.5	8.62
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/27/68-06/27/78	28	0.004	0.006	0.016	0.002	0.	0.004	0.002	0.003	0.008	0.011

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

Seasonal Analysis for Season #2: 11/01 to 4/30 - Station PAIS0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/27/68-06/27/78	6	5.	5.	9.	1.	10.	3.162	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/27/68-06/27/78	6	21.7	21.667	24.8	18.5	11.783	3.433	**	**	**	**
00078	TRANSPARENCY, SECCHI DISC (METERS)	09/15/69-06/27/78	2	0.865	0.865	1.23	0.5	0.266	0.516	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/27/68-06/27/78	6	42000.	42333.333	50000.	35000.	64666666.667	8041.559	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	08/27/68-06/27/78	6	6.6	6.75	7.1	6.5	0.075	0.274	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/27/68-06/27/78	6	87.	89.333	96.	85.	27.867	5.279	**	**	**	**
00400	PH (STANDARD UNITS)	08/27/68-06/27/78	6	8.15	8.167	8.3	8.1	0.007	0.082	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/27/68-06/27/78	6	8.147	8.161	8.3	8.1	0.007	0.082	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/27/68-06/27/78	6	0.007	0.007	0.008	0.005	0.	0.001	**	**	**	**

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

Station Inventory for Station: PAIS0097

NPS Station ID: PAIS0097
LAT/LON: 27.275115/ -97.394393
Agency: 11NPSWRD
Date Created: 06/12/99
Location: STATION 115A IN THE LAGUNA MADRE
FIPS State/County: 48261 TEXAS/KENEDY
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SMEV_115A
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110207
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110207
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE POINT OF ROCKS TEXAS 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 115A IN THE LAGUNA MADRE. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0097

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/06/75-11/06/75	1	25.4	25.4	25.4	25.4	0.	0.	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	11/06/75-11/06/75	1	36.8	36.8	36.8	36.8	0.	0.	**	**	**	**

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

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

Station Inventory for Station: PAIS0098

NPS Station ID: PAIS0098
LAT/LON: 27.275531/ -97.432059
Agency: 11NPSWRD
Date Created: 02/20/99
Location: BAFFIN BAY TRANSECT 11 SITE 3
FIPS State/County: 48261 TEXAS/KENEDY
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_TWDB_11-3
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110205
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110205
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE POINT OF ROCKS TEXAS 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT TRANSECT 11 SITE 3 IN BAFFIN BAY. DATA ARE FROM A SERIES OF YEARLY REPORTS (NUMBERS 117; 144; 171; AND 191) BY D. C. HAHL AND KARL W. RATZLAFF OF THE U.S. GEOLOGICAL SURVEY FOR THE TEXAS WATER DEVELOPMENT BOARD. THE REPORTS ARE TITLED "CHEMICAL AND PHYSICAL CHARACTERISTICS OF WATER IN ESTUARIES OF TEXAS SEPTEMBER 1967-SEPTEMBER 1968; OCTOBER 1968-SEPTEMBER 1969; OCTOBER 1969-SEPTEMBER 1970; AND OCTOBER 1970-SEPTEMBER 1971" AND WERE PUBLISHED IN MAY 1970; APRIL 1972; JUNE 1973; AND MAY 1975 RESPECTIVELY. THE PURPOSE OF THESE REPORTS WAS TO CREATE "A LONG-TERM RECORD OF THE CHEMICAL; PHYSICAL; AND HYDRAULIC CHARACTERISTICS OF THE TEXAS ESTUARINE SYSTEMS." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0098

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/27/68-09/16/69	10	4.	4.1	8.	1.	9.656	3.107	1.	1.	8.	8.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/27/68-09/16/69	9	29.3	29.522	30.3	28.7	0.374	0.612	28.7	29.	30.2	30.3
00078	TRANSPARENCY, SECCHI DISC (METERS)	09/15/69-09/16/69	2	0.035	0.035	0.04	0.03	0.	0.007	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/27/68-09/16/69	9	66000.	63222.222	73000.	51000.	82444444.444	9079.892	51000.	52000.	71000.	73000.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/15/69-09/15/69	1	69600.	69600.	69600.	69600.	0.	0.	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/27/68-09/16/69	9	6.4	6.522	8.5	4.2	1.909	1.382	4.2	5.55	7.75	8.5
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/27/68-09/16/69	9	110.	112.	149.	78.	621.5	24.93	78.	90.5	137.	149.
00310	BOD, 5 DAY, 20 DEG C MG/L	08/27/68-09/15/69	4	5.7	5.575	7.9	3.	6.429	2.536	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	08/27/68-09/16/69	9	8.5	8.589	8.8	8.5	0.016	0.127	8.5	8.5	8.7	8.8
00406	CONVERTED PH, FIELD, STANDARD UNITS	08/27/68-09/16/69	9	8.5	8.574	8.8	8.5	0.016	0.128	8.5	8.5	8.7	8.8
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/27/68-09/16/69	9	0.003	0.003	0.003	0.002	0.	0.001	0.002	0.002	0.003	0.003
00440	BICARBONATE ION (MG/L AS HCO3)	09/15/69-09/15/69	1	158.	158.	158.	158.	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/15/69-09/15/69	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	08/27/68-08/27/68	2	0.335	0.335	0.53	0.14	0.076	0.276	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	08/27/68-08/27/68	2	0.315	0.315	0.51	0.12	0.076	0.276	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/15/69-09/15/69	2	0.06	0.06	0.07	0.05	0.	0.014	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/15/69-09/15/69	2	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/15/69-09/15/69	1	8970.	8970.	8970.	8970.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/15/69-09/15/69	1	650.	650.	650.	650.	0.	0.	**	**	**	**

** - Less than 9 observations ## - 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: PAIS0098

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/15/69-09/15/69	1	1820.	1820.	1820.	1820.	0.	0.	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	09/15/69-09/15/69	1	14300.	14300.	14300.	14300.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/15/69-09/15/69	1	25300.	25300.	25300.	25300.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	09/15/69-09/15/69	1	4220.	4220.	4220.	4220.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/15/69-09/15/69	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/15/69-09/15/69	2	6.25	6.25	6.6	5.9	0.245	0.495	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	09/15/69-09/15/69	1	7800.	7800.	7800.	7800.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/15/69-09/15/69	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/15/69-09/15/69	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	09/15/69-09/15/69	1	7.	7.	7.	7.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	09/15/69-09/15/69	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	09/15/69-09/15/69	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/15/69-09/15/69	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01082	STRONTIUM, TOTAL (UG/L AS SR)	09/15/69-09/15/69	1	12000.	12000.	12000.	12000.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	09/15/69-09/15/69	1	40.	40.	40.	40.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	09/15/69-09/15/69	1	240.	240.	240.	240.	0.	0.	**	**	**	**
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	09/15/69-09/15/69	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39360	DDD IN WHOLE WATER SAMPLE (UG/L)	09/15/69-09/15/69	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	09/15/69-09/15/69	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	09/15/69-09/15/69	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	09/15/69-09/15/69	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	09/15/69-09/15/69	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	09/15/69-09/15/69	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	09/15/69-09/15/69	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	09/15/69-09/15/69	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	09/15/69-09/15/69	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	09/15/69-09/15/69	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39782	LINDANE IN WHOLE WATER SAMPLE (UG/L)	09/15/69-09/15/69	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	09/15/69-09/15/69	1	9100.	9100.	9100.	9100.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/15/69-09/15/69	1	46400.	46400.	46400.	46400.	0.	0.	**	**	**	**
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	08/27/68-08/27/68	2	0.25	0.25	0.4	0.1	0.045	0.212	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/27/68-08/27/68	2	0.15	0.15	0.2	0.1	0.005	0.071	**	**	**	**
71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	08/27/68-08/27/68	2	0.015	0.015	0.02	0.01	0.	0.007	**	**	**	**
71865	IODIDE (MG/L AS I)	09/15/69-09/15/69	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
71870	BROMIDE (MG/L AS BR)	09/15/69-09/15/69	1	90.	90.	90.	90.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: PAIS0098

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------5/01-10/31---------- Obs	Exceed	Prop.	----------11/01-4/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	9	0	0.00	9	0	0.00									
00406	PH, FIELD	Marine Chronic	8.5	9	9	1.00	9	9	1.00									
		Other-Lo Lim.	6.5	9	0	0.00	9	0	0.00									
01025	CADMIUM, DISSOLVED	Marine Acute	43.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Marine Acute	2.9	1	1	1.00	1	1	1.00									
01049	LEAD, DISSOLVED	Marine Acute	220.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Marine Acute	95.	1	0	0.00	1	0	0.00									
39330	ALDRIN IN WHOLE WATER SAMPLE	Marine Acute	1.3	1	0	0.00	1	0	0.00									
39360	DDD IN WHOLE WATER SAMPLE	Marine Acute	3.6	1	0	0.00	1	0	0.00									
39365	DDE IN WHOLE WATER SAMPLE	Marine Acute	14.	1	0	0.00	1	0	0.00									
39370	DDT IN WHOLE WATER SAMPLE	Marine Acute	0.13	1	0	0.00	1	0	0.00									
39380	DIELDRIN IN WHOLE WATER SAMPLE	Marine Acute	0.71	1	0	0.00	1	0	0.00									
39390	ENDRIN IN WHOLE WATER SAMPLE	Marine Acute	0.037	1	0	0.00	1	0	0.00									
39410	HEPTACHLOR IN WHOLE WATER SAMPLE	Marine Acute	0.053	1	0	0.00	1	0	0.00									
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE	Marine Acute	0.053	1	0	0.00	1	0	0.00									
39782	LINDANE IN WHOLE WATER SAMPLE	Marine Acute	0.16	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: PAIS0099

NPS Station ID: PAIS0099 LAT/LON: 27.276392/ -97.410281 Agency: 21TEXWR Date Created: 12/15/79
Location: LAGUNA MADRE MARKER 121 MOUTH OF BAFFIN BAY FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/OCEAN STORET Station ID(s): 24910100 /2205 2
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110207 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: RIO GRANDE LOWER BELOW PECOS RIVER ECO Region:
RF1 Index: 12110207 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110205001900.00 RF3 Mile Point: 0.55 Distance from RF3: 0.09 On/Off RF3:
Description:

Parameter Inventory for Station: PAIS0099

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/06/78-06/06/78	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/09/74-03/09/78	11	21.7	20.109	29.	8.5	43.151	6.569	8.9	14.	24.5	28.7
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	10/02/74-09/07/77	8	72.05	68.938	84.2	47.3	180.911	13.45	**	**	**	**
00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/17/74-10/07/76	2	10.	10.	10.	10.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/09/74-06/06/78	8	53250.	49662.5	62000.	32700.	113176964.286	10638.466	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/08/75-10/07/76	8	63500.	62042.	77056.	40500.	137711917.714	11735.072	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	04/09/74-06/06/78	7	7.7	7.443	9.2	5.8	1.666	1.291	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	01/08/75-01/08/75	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	10/02/74-01/11/77	3	8.1	8.067	8.5	7.6	0.203	0.451	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/02/74-01/11/77	3	8.1	7.918	8.5	7.6	0.236	0.486	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/02/74-01/11/77	3	0.008	0.012	0.025	0.003	0.	0.012	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/17/74-10/27/75	4	2.	2.	2.	2.	0.	0.	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	07/17/74-10/27/75	4	0.301	0.301	0.301	0.301	0.	0.	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			2.								
31619	FECAL COLIFORM,MPN,BORIC ACID LACTOSE BR,43C,48HR	07/07/72-07/07/72	1	2.	2.	2.	2.	0.	0.	**	**	**	**
31619	LOG FECAL COLIFORM,MPN,BORIC ACID LACTOSE BR,43C,4	07/07/72-07/07/72	1	0.301	0.301	0.301	0.301	0.	0.	**	**	**	**
31619	GM FECAL COLIFORM,MPN,BORIC ACID LACTOSE BR,43C,48	GEOMETRIC MEAN =			2.								
32222	CHLOROPHYLL A IN BOTTOM DEPOSITS (UG/KG DRY WGT)	10/07/76-09/07/77	2 ##	0.003	0.003	0.004	0.003	0.	0.001	**	**	**	**
70295	RESIDUE,TOTAL FILTRABLE (DRIED AT ANY TEMP),MG/L	04/10/73-06/06/78	39	25400.	22314.103	31250.	3500.	52688512.989	7258.685	10000.	17500.	27250.	28500.
70505	PHOSPHATE,TOTAL,COLORIMETRIC METHOD (MG/L AS P)	04/09/75-07/07/75	2	0.195	0.195	0.37	0.02	0.061	0.247	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: PAIS0099

				Total	Exceed	Prop.	----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------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.	2	0	0.00	1	0	0.00	1	0	0.00						
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	7	0	0.00	3	0	0.00	4	0	0.00						
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00				1	0	0.00						
00400	PH	Marine Chronic	8.5	3	1	0.33	1	0	0.00	2	1	0.50						
		Other-Lo Lim.	6.5	3	0	0.00	1	0	0.00	2	0	0.00						
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	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: PAIS0100

NPS Station ID: PAIS0100 LAT/LON: 27.276392/ -97.410281 Agency: 21TXWQB Date Created: 07/23/94
Location: LAGUNA MADRE ICWW/BAFFIN BAY FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): 13444 /2491.0100 /2491.1000
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110207 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: Bays and Estuaries ECO Region: 34M
RF1 Index: 12110207 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
LAGUNA MADRE AT INTERSECTION OF ICWW AT BAFFIN BAY MARKER ER

Parameter Inventory for Station: PAIS0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/27/72-07/25/96	272	5.	5.735	19.	1.	20.557	4.534	1.	1.	10.	10.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/27/72-07/25/96	168	23.9	23.207	32.	9.	33.194	5.761	15.4	19.45	28.375	30.2
00011p	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	02/27/72-11/14/85	83	75.	73.846	89.6	48.2	110.613	10.517	58.3	66.6	83.	86.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/27/72-12/05/77	20	13.5	14.5	40.	0.	100.158	10.008	0.2	8.25	20.	29.1
00077	TRANSPARENCY, SECCHI DISC (INCHES)	01/11/77-04/17/89	39	26.	30.231	66.	13.	150.077	12.251	16.	24.	36.	48.
00078	TRANSPARENCY, SECCHI DISC (METERS)	10/12/89-07/25/96	29	0.4	0.459	1.37	0.1	0.066	0.257	0.2	0.3	0.6	0.67
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/10/73-07/25/96	192	55950.	55776.563	77900.	7000.	156072458.279	12492.896	40680.	50000.	65225.	70570.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/27/72-02/02/88	42	50876.5	54103.714	93016.	8120.	304787125.233	17458.154	40880.	45000.	61405.	82000.8
00300p	OXYGEN, DISSOLVED MG/L	02/27/72-07/25/96	179	6.7	6.884	11.7	0.8	2.69	1.64	5.2	6.1	7.9	9.
00310	BOD, 5 DAY, 20 DEG C MG/L	02/27/72-07/03/73	7	2.	2.857	5.	1.	2.56	1.6	**	**	**	**
00400p	PH (STANDARD UNITS)	02/27/72-07/25/96	173	8.3	8.254	8.89	7.35	0.077	0.278	7.9	8.1	8.445	8.6
00400p	CONVERTED PH (STANDARD UNITS)	02/27/72-07/25/96	173	8.3	8.154	8.89	7.35	0.087	0.295	7.9	8.1	8.445	8.6
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/27/72-07/25/96	173	0.005	0.007	0.045	0.001	0.	0.006	0.003	0.004	0.008	0.013
00403p	PH, LAB, STANDARD UNITS SU	02/27/72-02/02/88	52	8.2	8.237	8.7	7.4	0.051	0.225	7.93	8.1	8.4	8.5
00403p	CONVERTED PH, LAB, STANDARD UNITS	02/27/72-02/02/88	52	8.2	8.168	8.7	7.4	0.055	0.235	7.93	8.1	8.4	8.5
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/27/72-02/02/88	52	0.006	0.007	0.04	0.002	0.	0.005	0.003	0.004	0.008	0.012
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	10/07/76-07/25/96	73	144.	146.123	304.	96.	1041.832	32.277	110.4	122.5	164.5	184.6
00440	BICARBONATE ION (MG/L AS HCO3)	08/03/83-08/08/84	2	126.	126.	149.	103.	1058.	32.527	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	08/03/83-08/03/83	1	16.	16.	16.	16.	0.	0.	**	**	**	**
00480p	SALINITY - PARTS PER THOUSAND	11/14/85-07/25/96	59	39.1	39.839	53.9	24.6	70.188	8.378	28.8	34.	47.2	51.3
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/27/72-07/25/96	92	33.	44.707	238.	5.	1564.825	39.558	13.3	18.	60.5	97.
00535p	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	02/27/72-07/25/96	92	12.	15.125	110.	2.	213.503	14.612	5.	6.	18.75	27.4
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/27/72-07/25/96	91	0.025	0.09	1.28	0.005	0.03	0.172	0.01	0.02	0.1	0.18
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/07/76-06/08/94	39 ##	0.015	0.016	0.05	0.005	0.	0.012	0.005	0.01	0.015	0.04
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/27/72-04/21/94	76	0.02	0.054	1.7	0.005	0.038	0.194	0.005	0.01	0.05	0.093
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	01/14/93-07/25/96	15	1.49	1.425	1.96	0.95	0.102	0.32	0.95	1.24	1.66	1.894
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/26/76-07/25/96	11	0.02	0.022	0.08	0.	0.	0.022	0.001	0.005	0.02	0.072
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	02/27/72-11/14/85	47	0.12	0.132	0.4	0.015	0.005	0.07	0.06	0.09	0.15	0.214
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	10/23/73-11/14/85	40	0.03	0.241	8.04	0.015	1.602	1.266	0.015	0.015	0.06	0.126
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	02/27/72-07/25/96	90	0.05	0.055	0.13	0.005	0.001	0.025	0.03	0.04	0.07	0.089
00671p	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/23/73-07/25/96	81	0.03	0.061	2.63	0.005	0.084	0.29	0.005	0.008	0.05	0.06
00680p	CARBON, TOTAL ORGANIC (MG/L AS C)	07/17/74-07/25/96	74	8.	7.151	21.	0.5	24.988	4.999	0.5	1.	10.	13.5
00916	CALCIUM, TOTAL (MG/L AS CA)	08/03/83-08/08/84	2	550.	550.	620.	480.	9800.	98.995	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	08/03/83-08/08/84	2	1500.	1500.	1800.	1200.	180000.	424.264	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	08/03/83-08/08/84	2	12000.	12000.	14000.	10000.	8000000.	2828.427	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	02/27/72-07/25/96	92	20321.	19915.196	32000.	287.	33056882.687	5749.512	13930.	16695.	23527.	26470.2

** - 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

Parameter Inventory for Station: PAIS0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00941	CHLORIDE, DISSOLVED IN WATER MG/L	01/19/73-01/06/76	10	20025.	19674.	24650.	12600.	11030093.333	3321.158	13110.	17880.	21675.	24480.
00945p	SULFATE, TOTAL (MG/L AS SO4)	02/27/72-07/25/96	91	3000.	2976.912	5980.	309.	701188.859	837.37	1928.	2600.	3418.	3848.
01002	ARSENIC, TOTAL (UG/L AS AS)	08/03/83-08/03/83	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	08/03/83-08/03/83	1	130.	130.	130.	130.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	08/03/83-08/03/83	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	08/03/83-08/03/83	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	08/03/83-08/03/83	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	08/03/83-08/03/83	1	150.	150.	150.	150.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	08/03/83-08/03/83	1	120.	120.	120.	120.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	08/03/83-08/03/83	1	14.	14.	14.	14.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	08/03/83-08/03/83	1 ##	15.	15.	15.	15.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	08/03/83-08/03/83	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	08/03/83-08/03/83	1	60.	60.	60.	60.	0.	0.	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	10/23/73-05/08/85	33 ##	5.	6.348	92.	0.	245.398	15.665	0.	0.5	5.	10.
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	10/23/73-05/08/85	33 ##	0.699	0.473	1.964	-0.301	0.242	0.492	0.	-0.301	0.699	1.
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			2.975								
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	04/18/72-07/03/73	6	2.	4.667	10.	2.	17.067	4.131	**	**	**	**
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	04/18/72-07/03/73	6	0.301	0.534	1.	0.301	0.13	0.361	**	**	**	**
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			3.42								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/23/73-07/25/96	37 ##	1.5	1.905	10.	1.	2.72	1.649	1.	1.25	1.5	3.4
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/23/73-07/25/96	37 ##	0.176	0.207	1.	0.	0.047	0.216	0.	0.088	0.176	0.521
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			1.61								
31619	FECAL COLIFORM,MPN,BORIC ACID LACTOSE BR,43C,48HR	04/18/72-07/03/73	6	2.	4.333	10.	0.	19.867	4.457	**	**	**	**
31619	LOG FECAL COLIFORM,MPN,BORIC ACID LACTOSE BR,43C,4	04/18/72-07/03/73	6	0.301	0.484	1.	0.	0.173	0.416	**	**	**	**
31619	GM FECAL COLIFORM,MPN,BORIC ACID LACTOSE BR,43C,48	GEOMETRIC MEAN =			3.047								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	08/08/84-08/08/84	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	08/08/84-08/08/84	1 ##	0.699	0.699	0.699	0.699	0.	0.	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			5.								
32211p	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	02/27/72-07/25/96	86	7.	13.429	77.8	0.5	226.052	15.035	1.85	2.5	20.	35.32
32218p	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	10/07/76-07/25/96	68 ##	2.5	3.845	36.5	0.	36.054	6.005	0.	1.	2.5	9.21
70211	TIDE, HIGH OR LOW,BEFORE OR AFTER,HOUR,MINUTE	10/23/73-10/02/74	4	1.	1.5	3.	1.	1.	1.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/07/77-07/25/96	14	41909.5	38194.929	47100.	4710.	108597086.225	10420.993	19255.	35300.	43400.	45550.
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	04/09/75-07/07/75	2	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	08/03/83-08/03/83	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
72053	DAYS SINCE PRECIPITATION EVENT DAYS	10/12/89-07/25/96	26	5.	4.019	5.	1.	2.25	1.5	1.	2.875	5.	5.

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

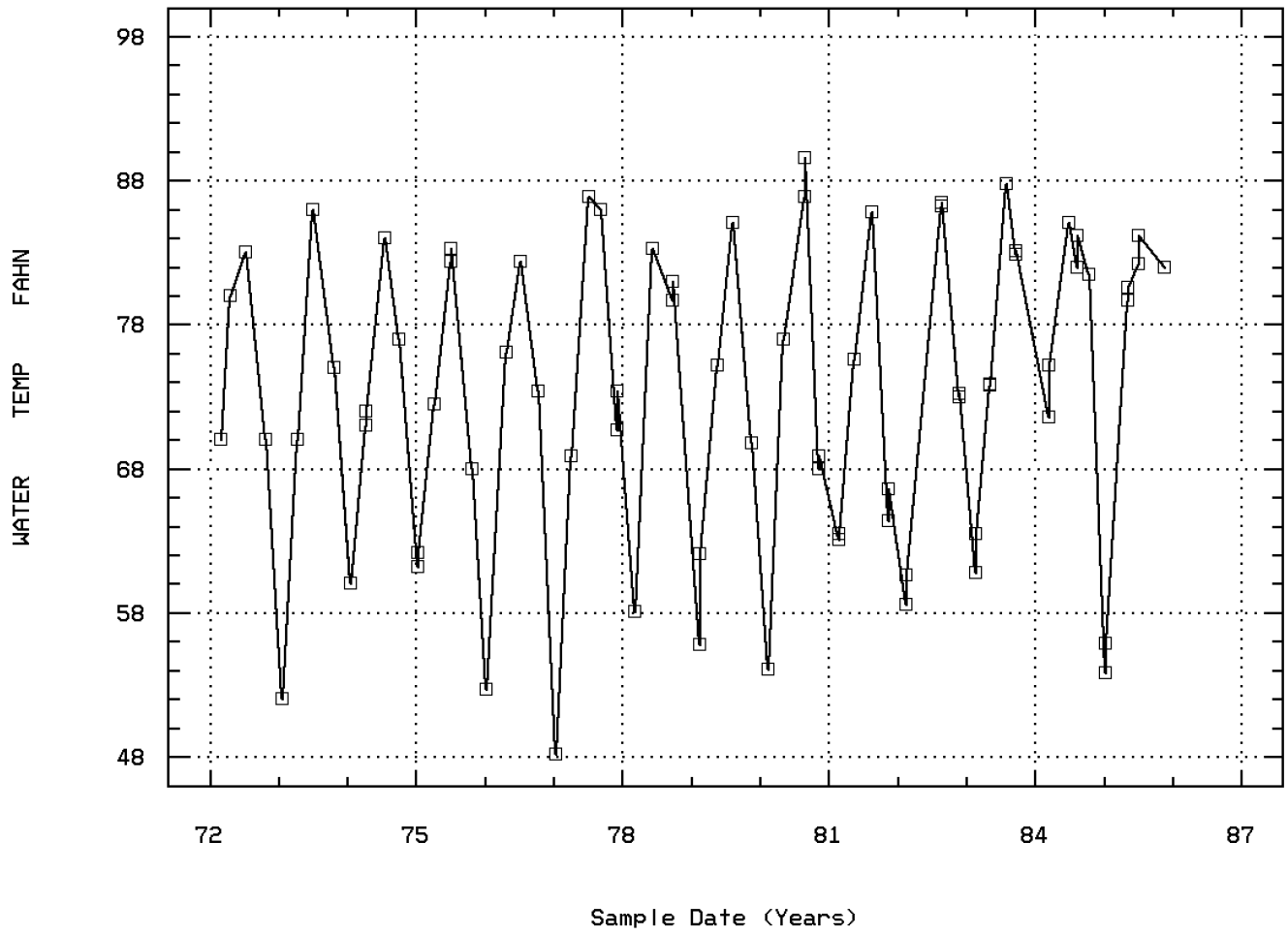
EPA Water Quality Criteria Analysis for Station: PAIS0100

				Total	Exceed	Prop.	----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------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.	20	0	0.00	9	0	0.00	11	0	0.00						
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	179	6	0.03	86	6	0.07	93	0	0.00						
00400	PH	Marine Chronic	8.5	173	39	0.23	82	27	0.33	91	12	0.13						
		Other-Lo Lim.	6.5	173	0	0.00	82	0	0.00	91	0	0.00						
00403	PH, LAB	Marine Chronic	8.5	52	8	0.15	27	4	0.15	25	4	0.16						
		Other-Lo Lim.	6.5	52	0	0.00	27	0	0.00	25	0	0.00						
01002	ARSENIC, TOTAL	Marine Acute	69.	1	0	0.00	1	0	0.00									
01027	CADMIUM, TOTAL	Marine Acute	43.	1	0	0.00	1	0	0.00									
01042	COPPER, TOTAL	Marine Acute	2.9	0 &	0	0.00												
01051	LEAD, TOTAL	Marine Acute	220.	1	0	0.00	1	0	0.00									
01067	NICKEL, TOTAL	Marine Acute	75.	1	0	0.00	1	0	0.00									
01077	SILVER, TOTAL	Marine Acute	0.12	1	1	1.00	1	1	1.00									
01092	ZINC, TOTAL	Marine Acute	95.	1	0	0.00	1	0	0.00									
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	33	0	0.00	18	0	0.00	15	0	0.00						
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	6	0	0.00	3	0	0.00	3	0	0.00						
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	37	0	0.00	15	0	0.00	22	0	0.00						
71900	MERCURY, TOTAL	Marine Acute	2.1	1	0	0.00	1	0	0.00									

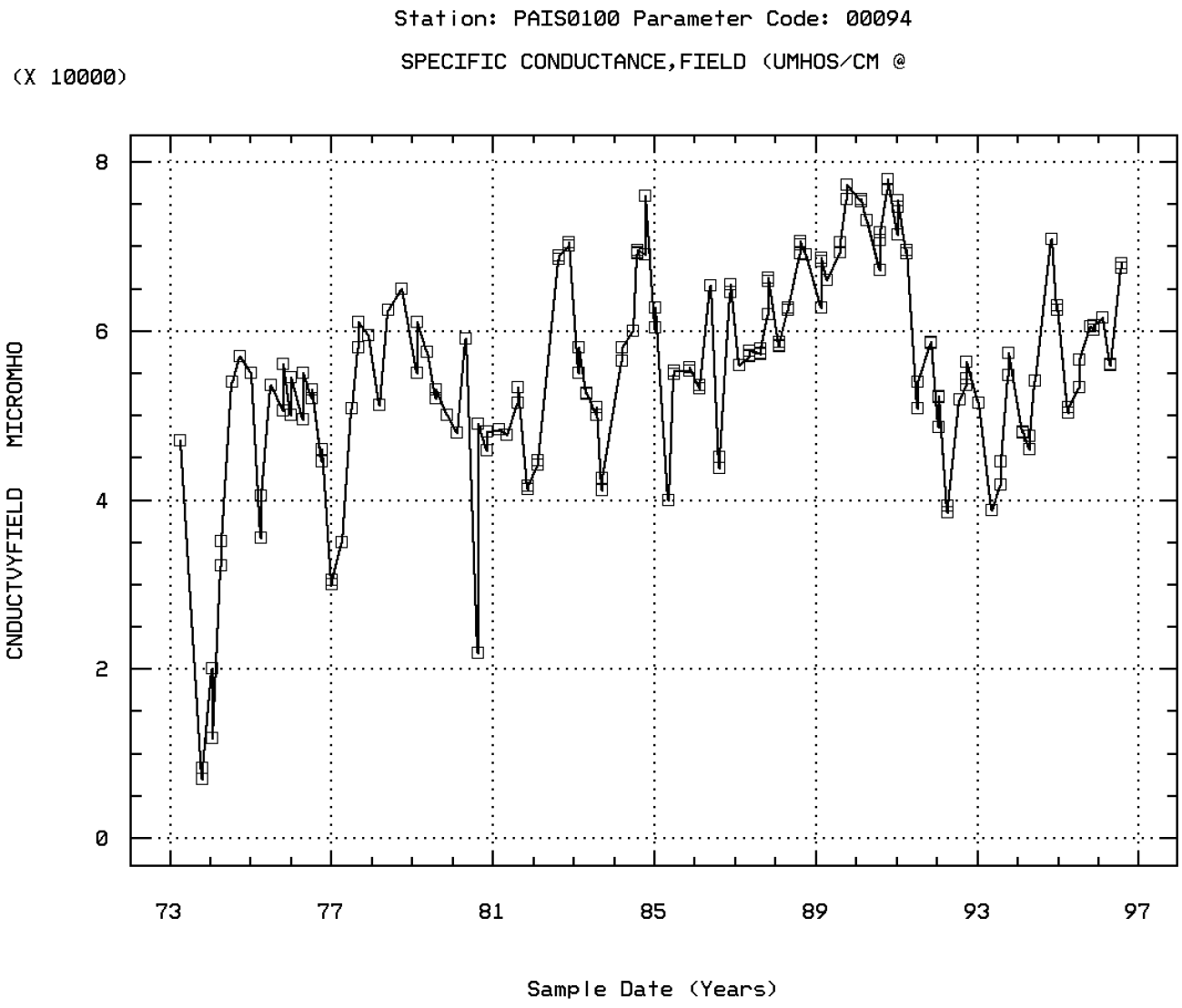
& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station: PAIS0100 Parameter Code: 00011

TEMPERATURE, WATER (DEGREES FAHRENHEIT)



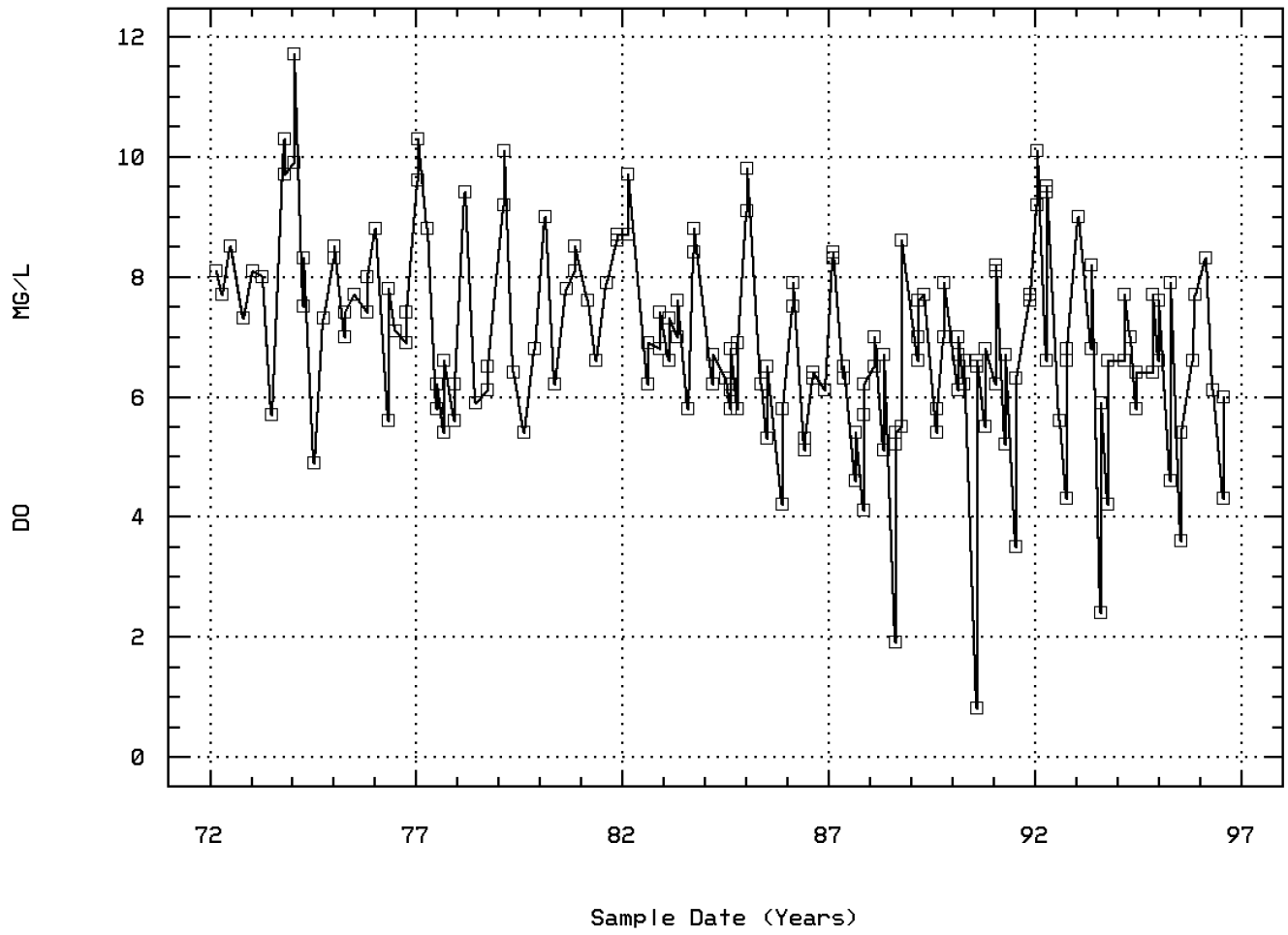
LAGUNA MADRE ICWW/BAFFIN BAY



LAGUNA MADRE ICWW/BAFFIN BAY

Station: PAIS0100 Parameter Code: 00300

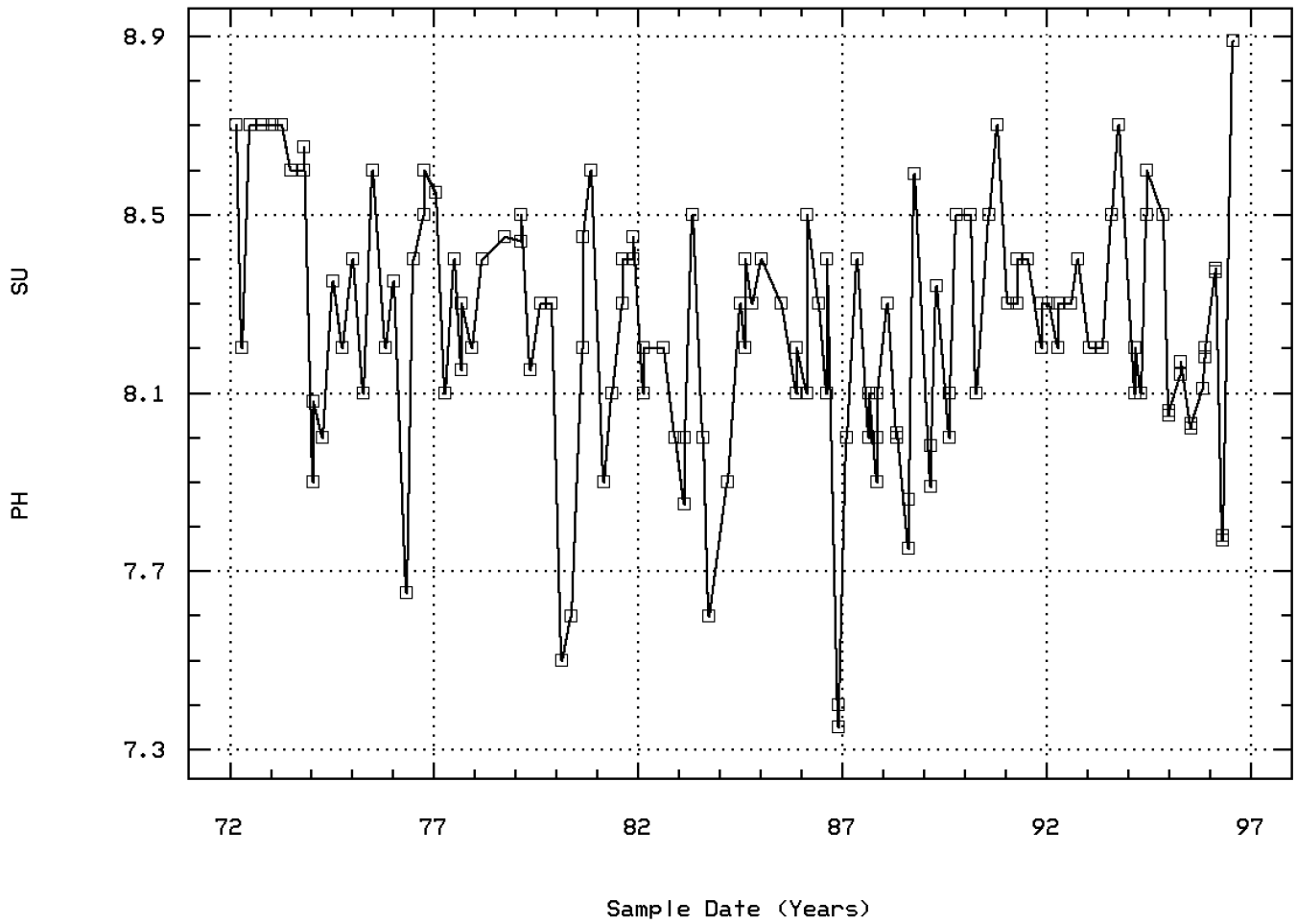
OXYGEN, DISSOLVED



LAGUNA MADRE ICWW/BAFFIN BAY

Station: PAIS0100 Parameter Code: 00400

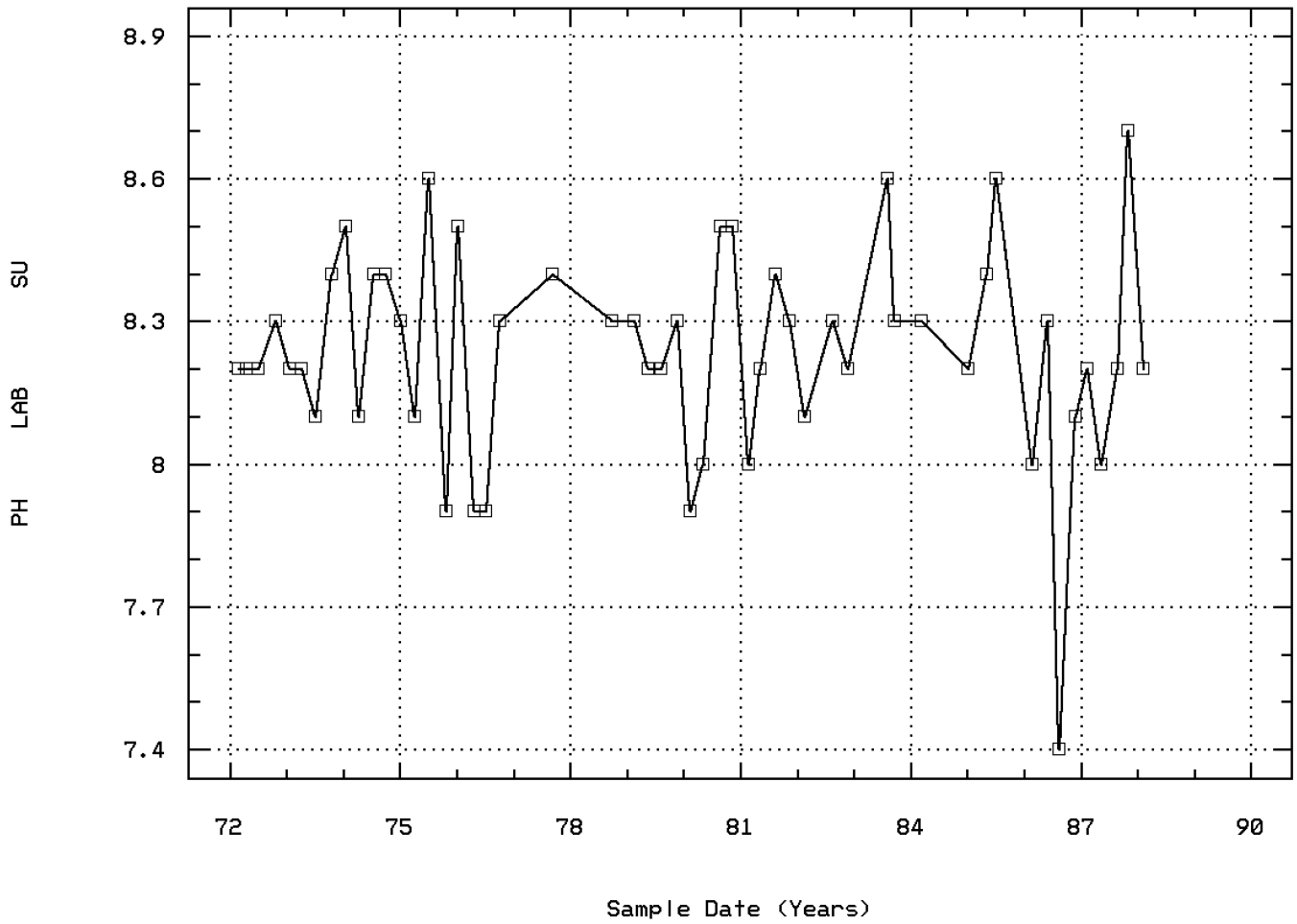
PH (STANDARD UNITS)



LAGUNA MADRE ICWW/BAFFIN BAY

Station: PAIS0100 Parameter Code: 00403

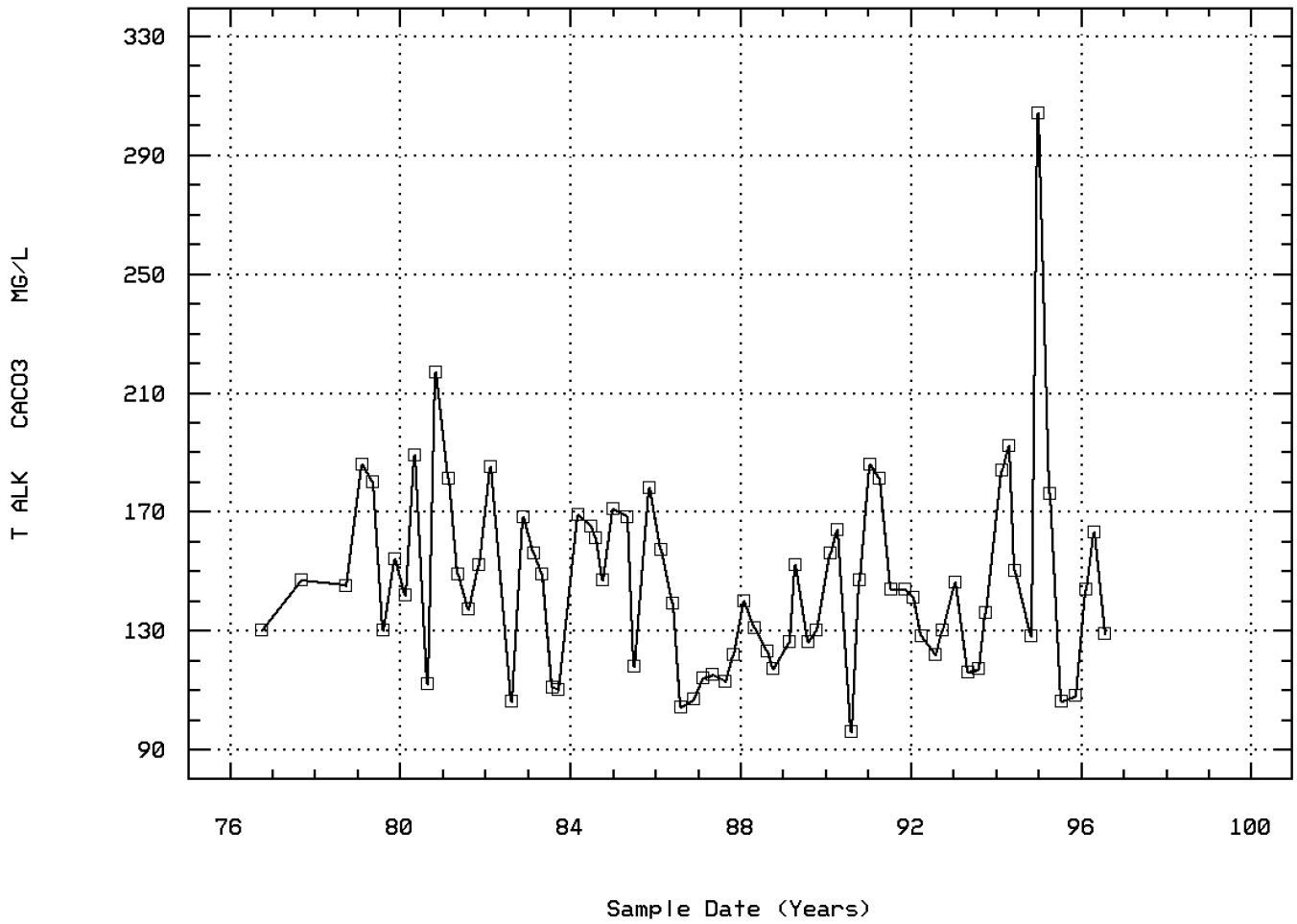
PH, LAB, STANDARD UNITS



LAGUNA MADRE ICWW/BAFFIN BAY

Station: PAIS0100 Parameter Code: 00410

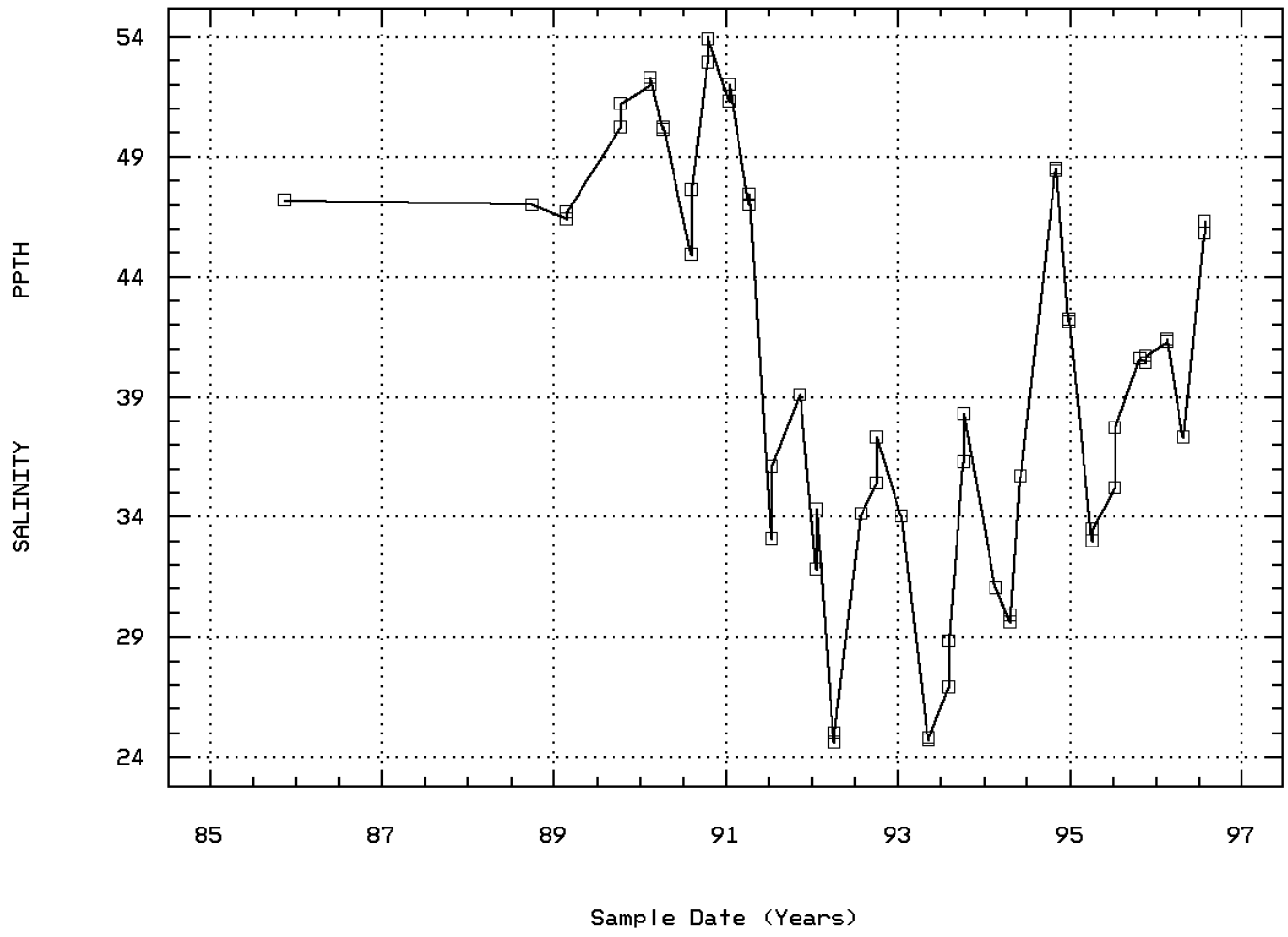
ALKALINITY, TOTAL (MG/L AS CACO3)



LAGUNA MADRE ICWW/BAFFIN BAY

Station: PAIS0100 Parameter Code: 00480

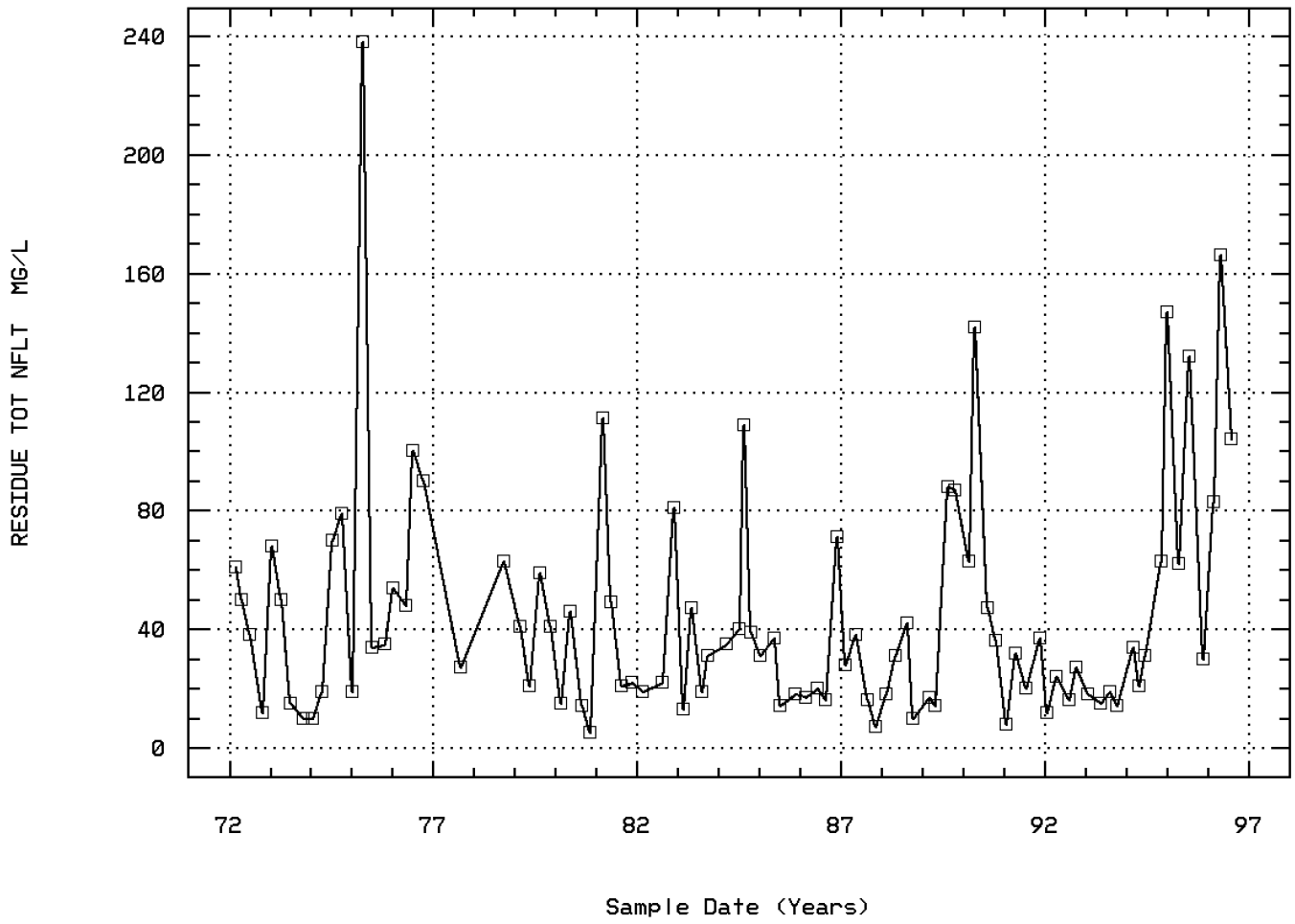
SALINITY - PARTS PER THOUSAND



LAGUNA MADRE ICWW/BAFFIN BAY

Station: PAIS0100 Parameter Code: 00530

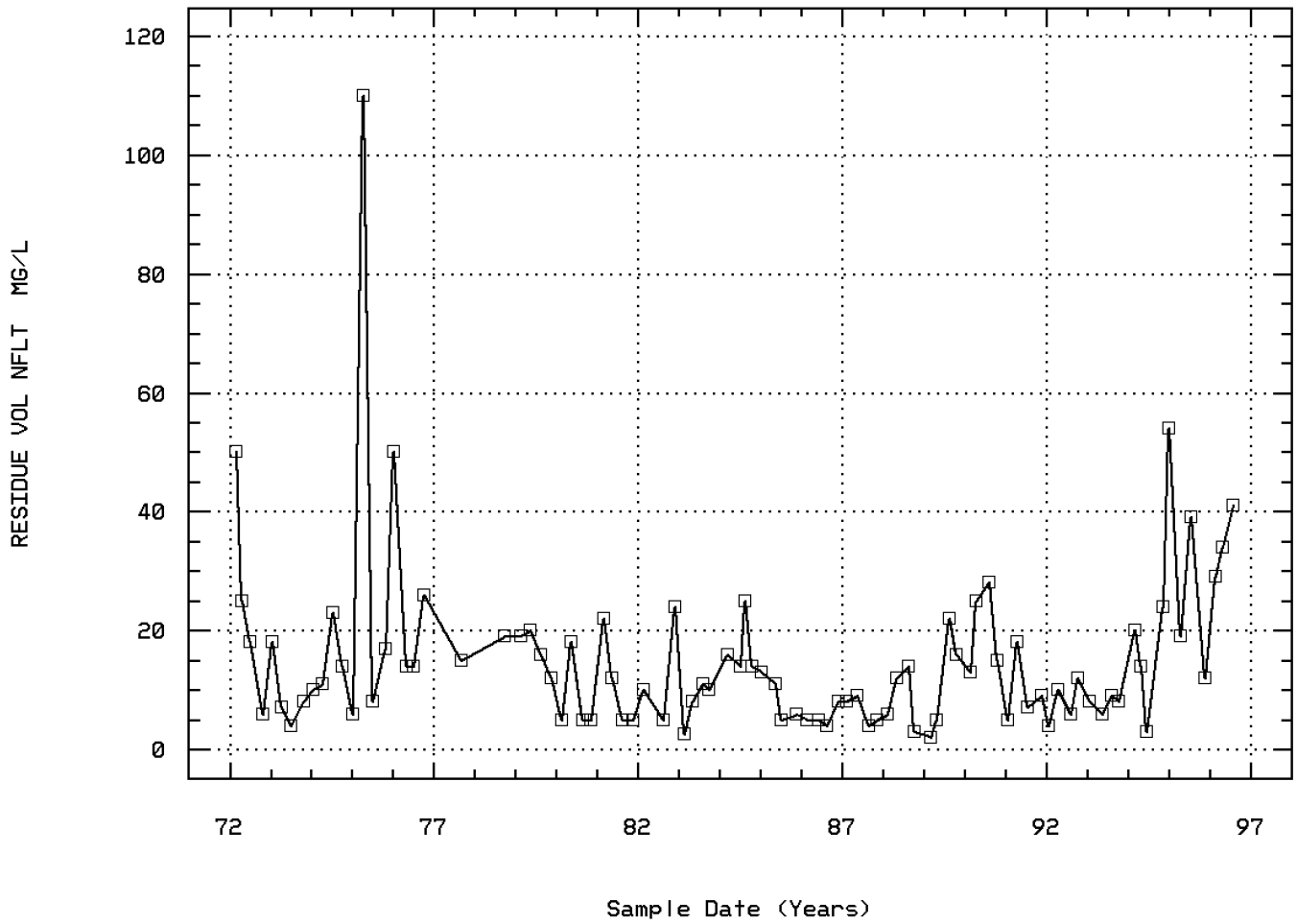
RESIDUE, TOTAL NONFILTRABLE (MG/L)



LAGUNA MADRE ICWW/BAFFIN BAY

Station: PAIS0100 Parameter Code: 00535

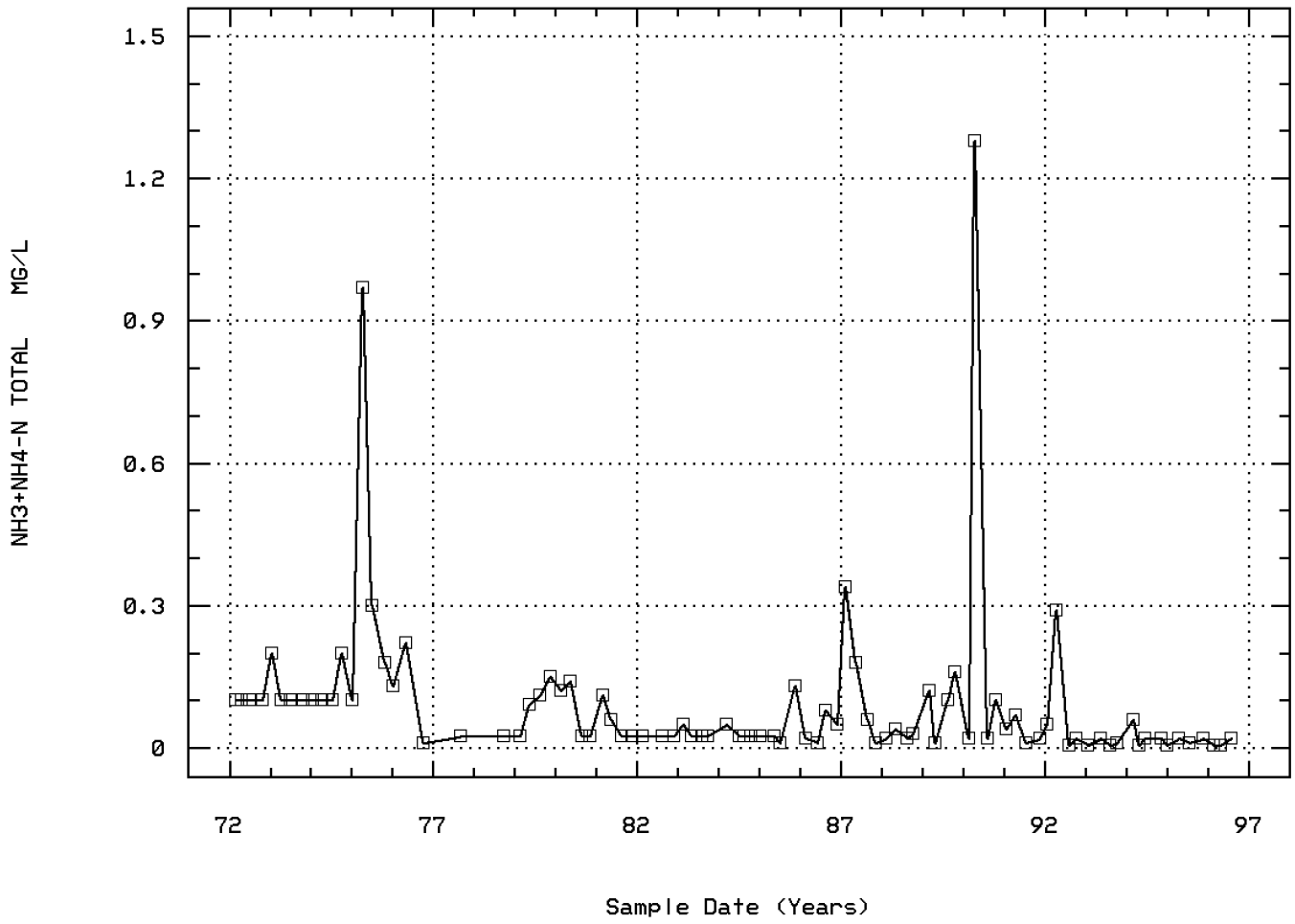
RESIDUE, VOLATILE NONFILTRABLE (MG/L)



LAGUNA MADRE ICWW/BAFFIN BAY

Station: PAIS0100 Parameter Code: 00610

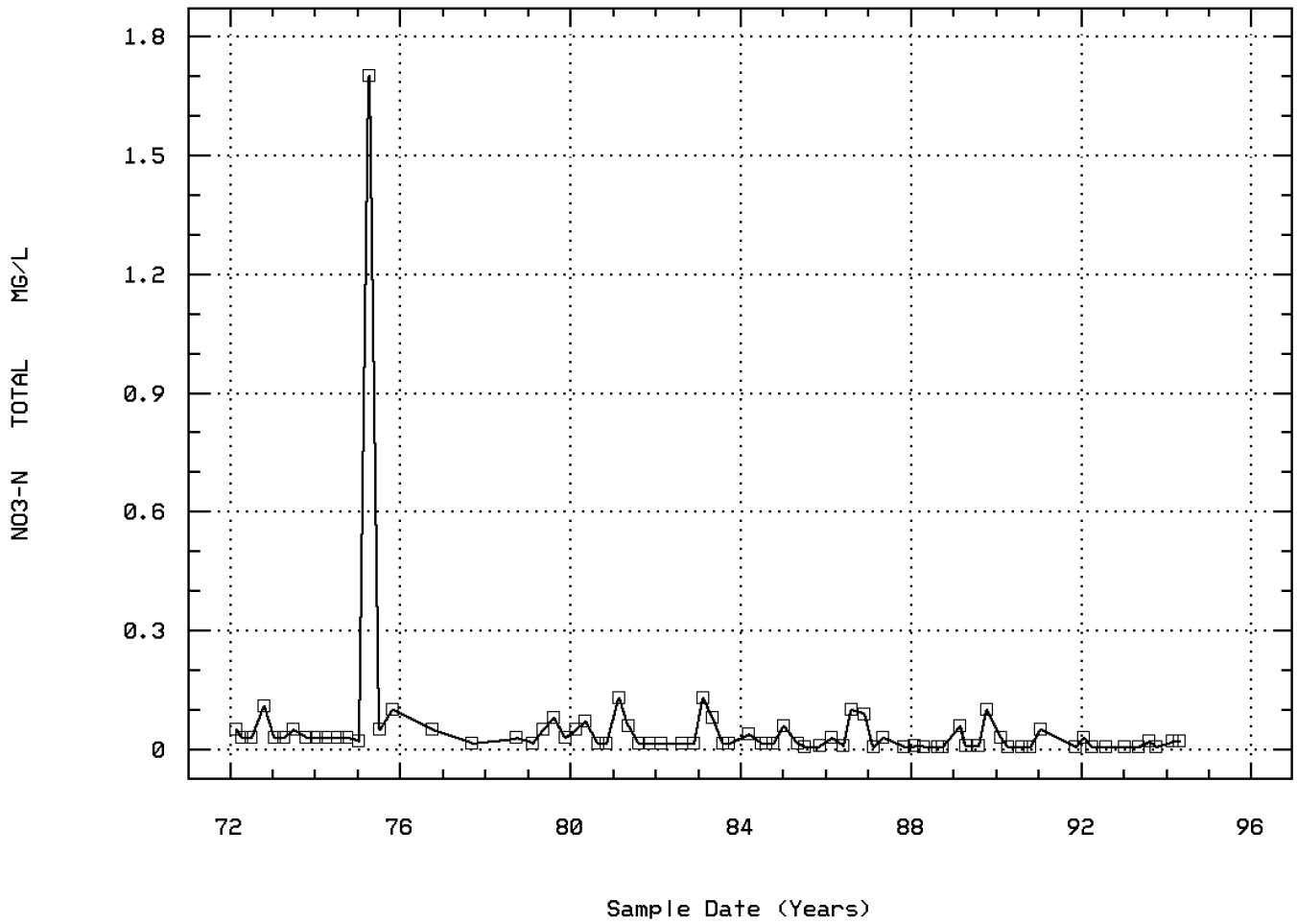
NITROGEN, AMMONIA, TOTAL (MG/L AS N)



LAGUNA MADRE ICWW/BAFFIN BAY

Station: PAIS0100 Parameter Code: 00620

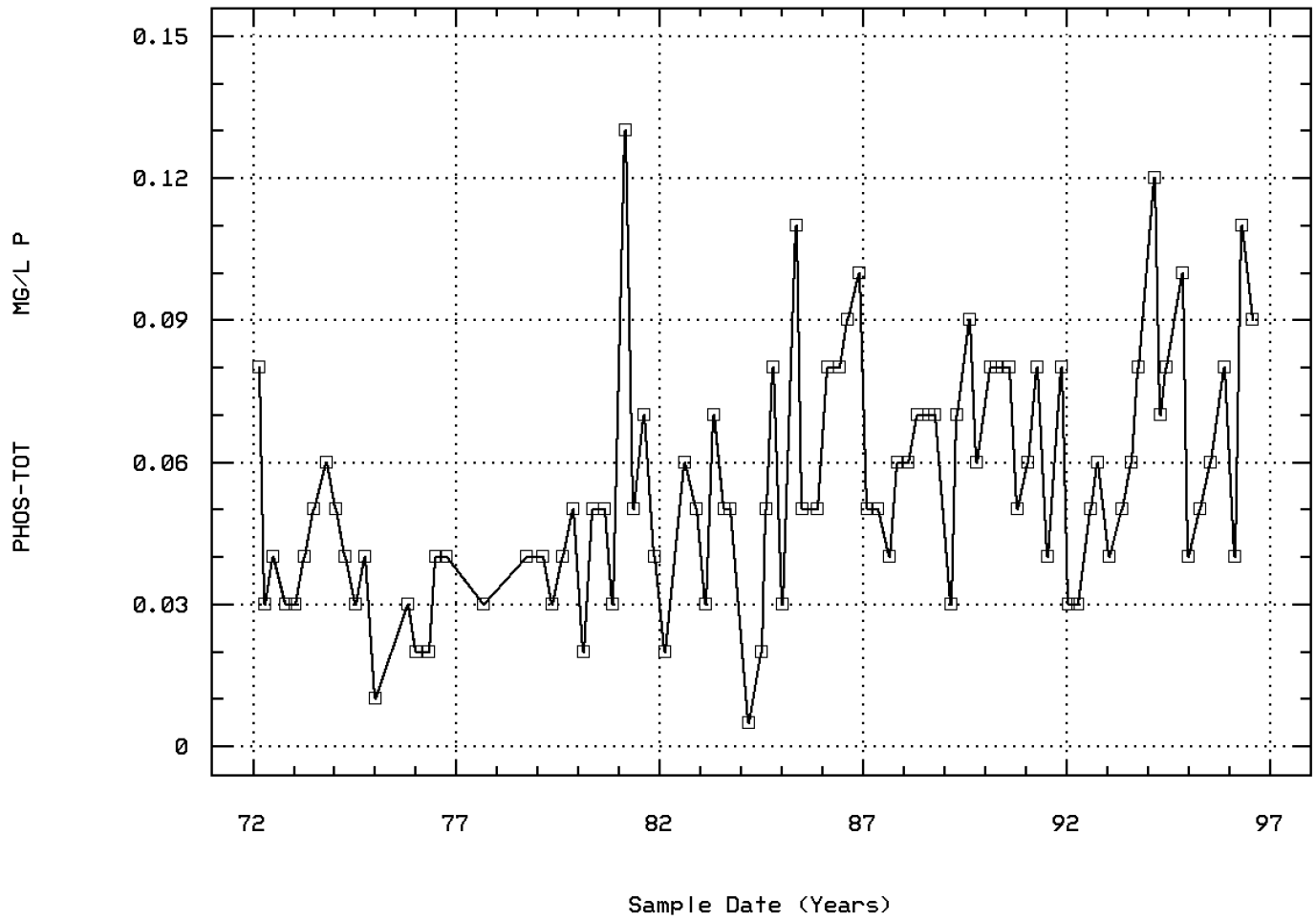
NITRATE NITROGEN, TOTAL (MG/L AS N)



LAGUNA MADRE ICWW/BAFFIN BAY

Station: PAIS0100 Parameter Code: 00665

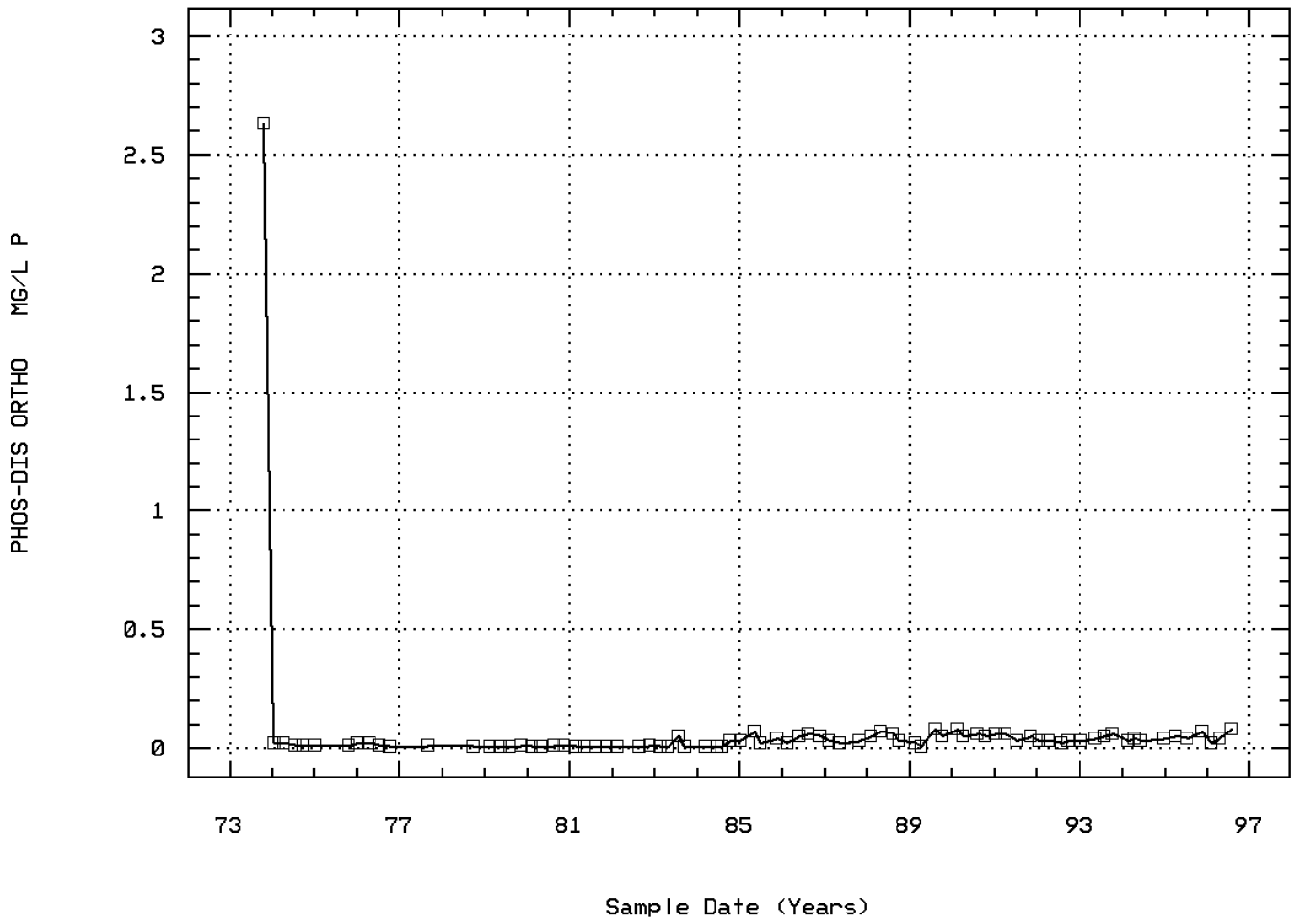
PHOSPHORUS, TOTAL (MG/L AS P)



LAGUNA MADRE ICWW/BAFFIN BAY

Station: PAIS0100 Parameter Code: 00671

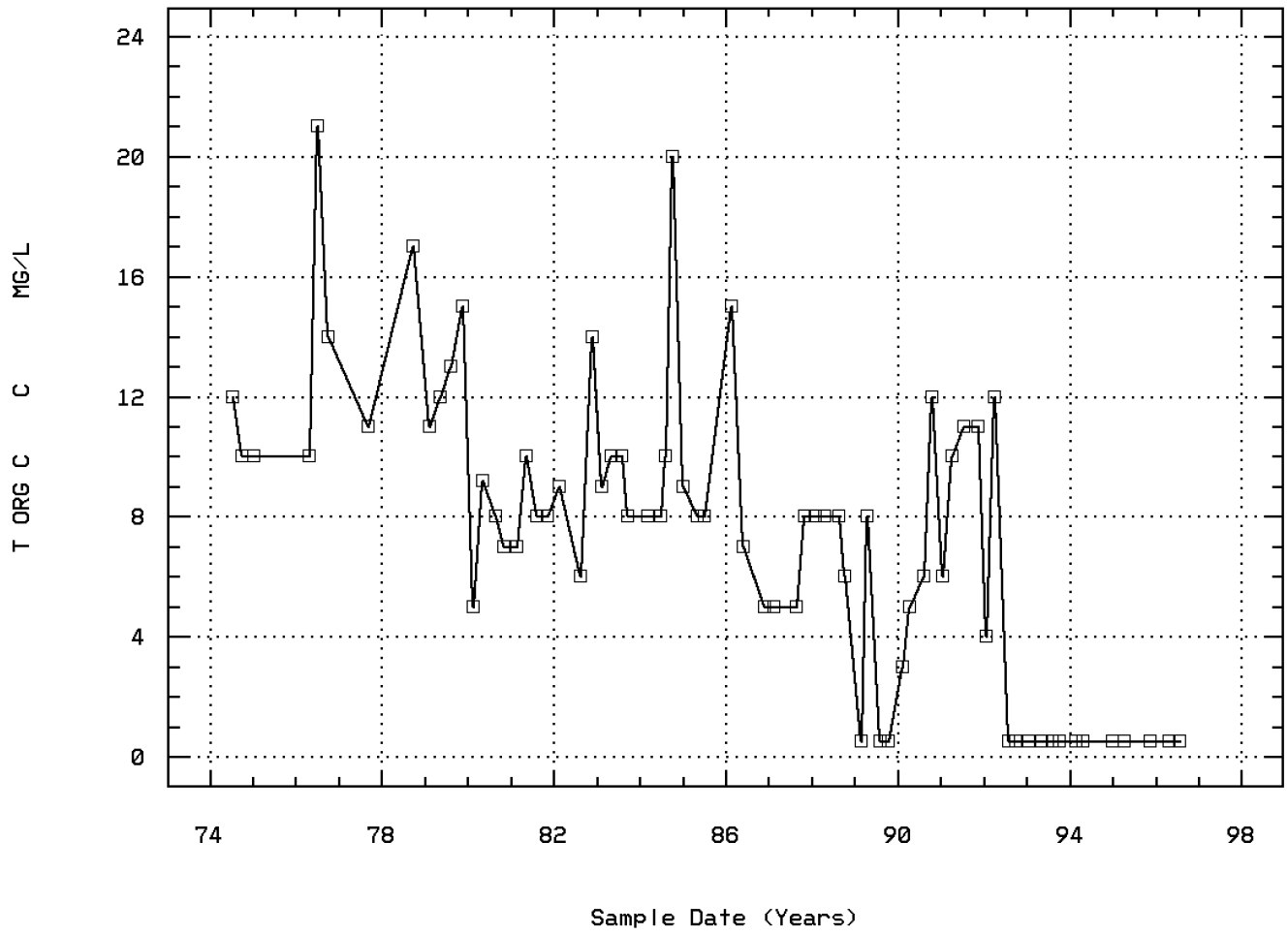
PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (M



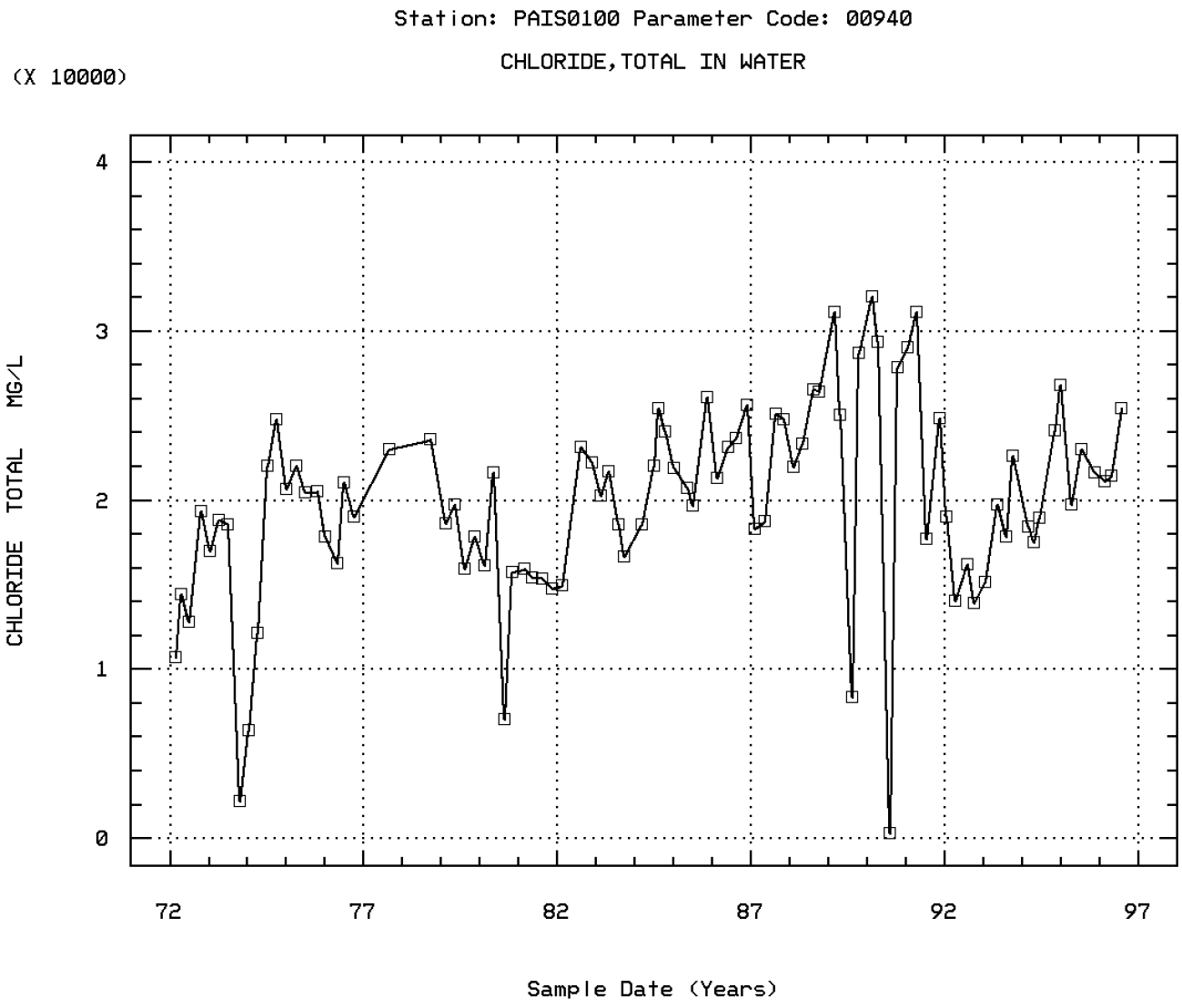
LAGUNA MADRE ICWW/BAFFIN BAY

Station: PAIS0100 Parameter Code: 00680

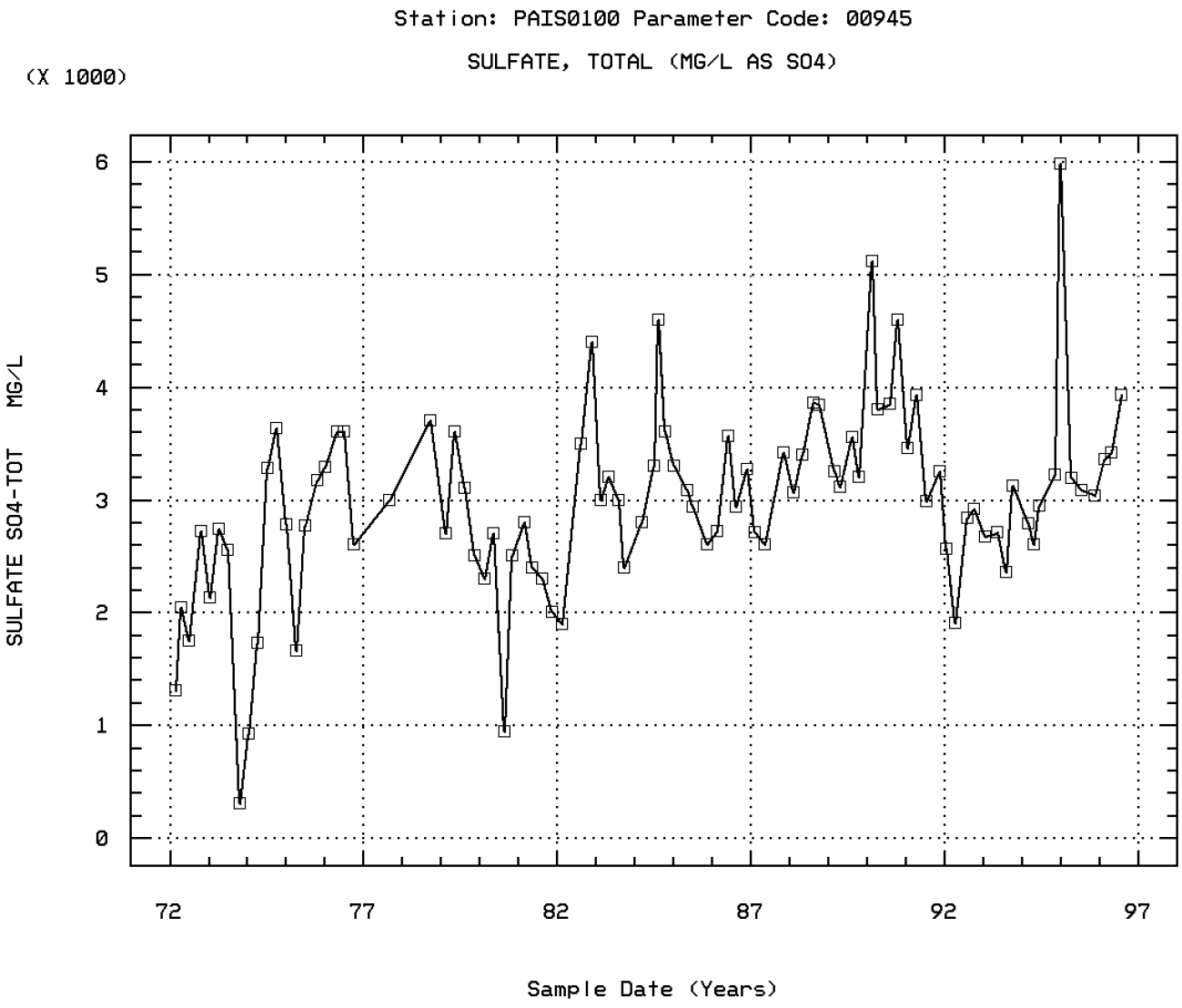
CARBON, TOTAL ORGANIC (MG/L AS C)



LAGUNA MADRE ICWW/BAFFIN BAY



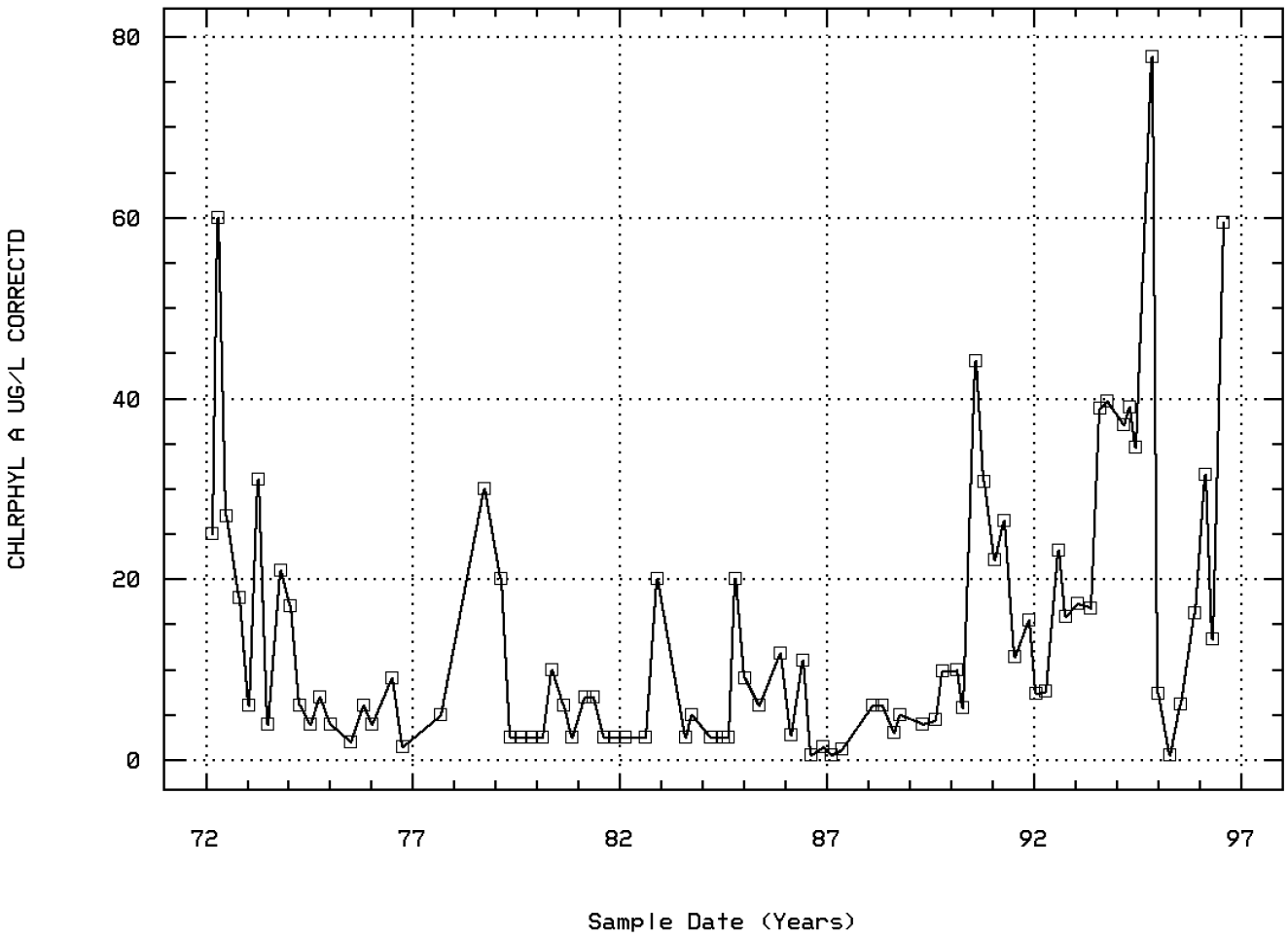
LAGUNA MADRE ICWW/BAFFIN BAY



LAGUNA MADRE ICWW/BAFFIN BAY

Station: PAIS0100 Parameter Code: 32211

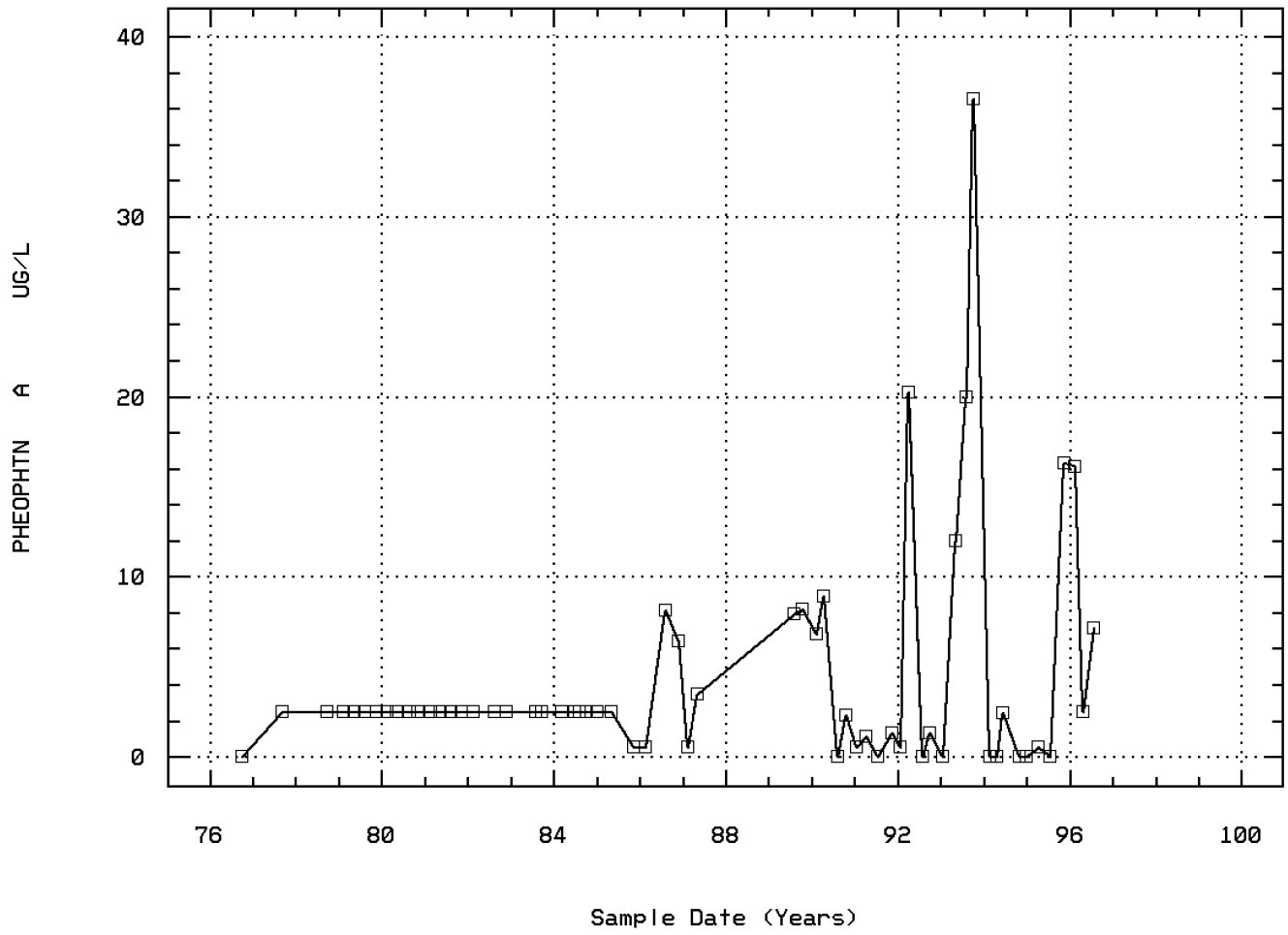
CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC A



LAGUNA MADRE ICWW/BAFFIN BAY

Station: PAIS0100 Parameter Code: 32218

PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC AC



LAGUNA MADRE ICWW/BAFFIN BAY

Annual Analysis for 1972 - Station PAIS0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/27/72-07/25/96	4	1.	1.	1.	1.	0.	0.	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	02/27/72-07/25/96	4	7.9	7.9	8.5	7.3	0.267	0.516	**	**	**	**
00400p	PH (STANDARD UNITS)	02/27/72-07/25/96	4	8.7	8.575	8.7	8.2	0.063	0.25	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	02/27/72-07/25/96	4	8.7	8.512	8.7	8.2	0.068	0.26	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/27/72-07/25/96	4	0.002	0.003	0.006	0.002	0.	0.002	**	**	**	**

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

Annual Analysis for 1973 - Station PAIS0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/27/72-07/25/96	5	1.	1.8	5.	1.	3.2	1.789	**	**	**	**
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/10/73-07/25/96	3	8250.	20750.	47000.	7000.	517187500.	22741.757	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	02/27/72-07/25/96	5	8.1	8.36	10.3	5.7	3.208	1.791	**	**	**	**
00400p	PH (STANDARD UNITS)	02/27/72-07/25/96	5	8.65	8.65	8.7	8.6	0.002	0.05	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	02/27/72-07/25/96	5	8.65	8.648	8.7	8.6	0.003	0.05	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/27/72-07/25/96	5	0.002	0.002	0.003	0.002	0.	0.	**	**	**	**

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

Annual Analysis for 1974 - Station PAIS0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/27/72-07/25/96	8	3.	4.25	10.	1.	15.643	3.955	**	**	**	**
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/10/73-07/25/96	7	35100.	38164.286	57000.	11850.	337947261.905	18383.342	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	02/27/72-07/25/96	6	7.9	8.267	11.7	4.9	5.463	2.337	**	**	**	**
00400p	PH (STANDARD UNITS)	02/27/72-07/25/96	5	8.08	8.106	8.35	7.9	0.031	0.175	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	02/27/72-07/25/96	5	8.08	8.079	8.35	7.9	0.032	0.178	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/27/72-07/25/96	5	0.008	0.008	0.013	0.004	0.	0.003	**	**	**	**

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

Annual Analysis for 1975 - Station PAIS0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/27/72-07/25/96	10	5.	5.4	10.	1.	18.044	4.248	1.	1.	10.	10.
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/10/73-07/25/96	6	52000.	48500.	56000.	35500.	72100000.	8491.172	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	02/27/72-07/25/96	8	7.7	7.75	8.5	7.	0.249	0.499	**	**	**	**
00400p	PH (STANDARD UNITS)	02/27/72-07/25/96	7	8.2	8.314	8.6	8.1	0.048	0.219	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	02/27/72-07/25/96	7	8.2	8.271	8.6	8.1	0.05	0.224	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/27/72-07/25/96	7	0.006	0.005	0.008	0.003	0.	0.002	**	**	**	**

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

Annual Analysis for 1976 - Station PAIS0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/27/72-07/25/96	8	5.5	5.5	10.	1.	23.143	4.811	**	**	**	**
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/10/73-07/25/96	8	51000.	50562.5	55000.	44500.	14602678.571	3821.345	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	02/27/72-07/25/96	6	7.25	7.267	8.8	5.6	1.119	1.058	**	**	**	**
00400p	PH (STANDARD UNITS)	02/27/72-07/25/96	5	8.4	8.3	8.6	7.65	0.141	0.376	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 PAIS0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400p	CONVERTED PH (STANDARD UNITS)	02/27/72-07/25/96	5	8.4	8.137	8.6	7.65	0.175	0.418	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/27/72-07/25/96	5	0.004	0.007	0.022	0.003	0.	0.008	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 PAIS0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/27/72-07/25/96	12	5.	5.333	12.	1.	18.424	4.292	1.	1.	9.75	11.4
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/10/73-07/25/96	8	50800.	46950.	61000.	30000.	172480000.	13133.164	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	02/27/72-07/25/96	9	6.2	7.167	10.3	5.4	3.505	1.872	5.4	5.7	9.2	10.3
00400p	PH (STANDARD UNITS)	02/27/72-07/25/96	7	8.3	8.3	8.55	8.1	0.026	0.161	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	02/27/72-07/25/96	7	8.3	8.275	8.55	8.1	0.027	0.163	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/27/72-07/25/96	7	0.005	0.005	0.008	0.003	0.	0.002	**	**	**	**

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

Annual Analysis for 1978 - Station PAIS0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/27/72-07/25/96	6	3.	4.333	10.	1.	15.867	3.983	**	**	**	**
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/10/73-07/25/96	4	63750.	60925.	65000.	51200.	43422500.	6589.575	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	02/27/72-07/25/96	4	6.3	6.975	9.4	5.9	2.676	1.636	**	**	**	**
00400p	PH (STANDARD UNITS)	02/27/72-07/25/96	3	8.45	8.433	8.45	8.4	0.001	0.029	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	02/27/72-07/25/96	3	8.45	8.433	8.45	8.4	0.001	0.029	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/27/72-07/25/96	3	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 PAIS0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/27/72-07/25/96	8	4.5	5.875	15.	1.	30.982	5.566	**	**	**	**
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/10/73-07/25/96	6	54000.	54750.	61000.	50000.	15975000.	3996.874	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	02/27/72-07/25/96	5	6.8	7.58	10.1	5.4	3.932	1.983	**	**	**	**
00400p	PH (STANDARD UNITS)	02/27/72-07/25/96	5	8.3	8.338	8.5	8.15	0.019	0.137	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	02/27/72-07/25/96	5	8.3	8.321	8.5	8.15	0.019	0.138	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/27/72-07/25/96	5	0.005	0.005	0.007	0.003	0.	0.002	**	**	**	**

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

Annual Analysis for 1980 - Station PAIS0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/27/72-07/25/96	10	5.	5.2	10.	1.	16.4	4.05	1.	1.	10.	10.
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/10/73-07/25/96	7	48000.	47257.143	59100.	21900.	154936190.476	12447.337	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	02/27/72-07/25/96	6	7.95	6.767	9.	1.	8.883	2.98	**	**	**	**
00400p	PH (STANDARD UNITS)	02/27/72-07/25/96	7	8.2	8.064	8.6	7.5	0.266	0.515	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	02/27/72-07/25/96	7	8.2	7.831	8.6	7.5	0.329	0.574	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/27/72-07/25/96	7	0.006	0.015	0.032	0.003	0.	0.014	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 PAIS0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/27/72-07/25/96	11	5.	5.364	10.	1.	16.255	4.032	1.	1.	10.	10.
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/10/73-07/25/96	8	48000.	47450.	53300.	41200.	17754285.714	4213.583	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	02/27/72-07/25/96	6	7.75	7.833	8.7	6.6	0.595	0.771	**	**	**	**
00400p	PH (STANDARD UNITS)	02/27/72-07/25/96	7	8.3	8.207	8.45	7.9	0.057	0.239	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	02/27/72-07/25/96	7	8.3	8.149	8.45	7.9	0.061	0.247	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/27/72-07/25/96	7	0.005	0.007	0.013	0.004	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 box-and-whisker plot

Annual Analysis for 1982 - Station PAIS0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/27/72-07/25/96	10	5.	6.3	15.	1.	22.9	4.785	1.	1.	10.	14.5
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/10/73-07/25/96	7	68500.	58771.429	70400.	44100.	178675714.286	13366.964	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	02/27/72-07/25/96	6	7.15	7.617	9.7	6.2	1.75	1.323	**	**	**	**
00400p	PH (STANDARD UNITS)	02/27/72-07/25/96	6	8.15	8.117	8.2	8.	0.01	0.098	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	02/27/72-07/25/96	6	8.147	8.107	8.2	8.	0.01	0.099	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/27/72-07/25/96	6	0.007	0.008	0.01	0.006	0.	0.002	**	**	**	**

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

Annual Analysis for 1983 - Station PAIS0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/27/72-07/25/96	11	5.	6.273	15.	1.	24.618	4.962	1.	1.	10.	14.
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/10/73-07/25/96	8	51750.	50350.	58000.	41100.	33714285.714	5806.4	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	02/27/72-07/25/96	7	7.3	7.357	8.8	5.8	1.06	1.029	**	**	**	**
00400p	PH (STANDARD UNITS)	02/27/72-07/25/96	6	8.	8.075	8.5	7.6	0.13	0.36	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	02/27/72-07/25/96	6	8.	7.961	8.5	7.6	0.145	0.381	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/27/72-07/25/96	6	0.01	0.011	0.025	0.003	0.	0.008	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 PAIS0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/27/72-07/25/96	15	5.	6.067	15.	1.	27.067	5.203	1.	1.	10.	15.
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/10/73-07/25/96	10	69050.	65450.	76000.	56500.	44731666.667	6688.174	56650.	58000.	69350.	75350.
00300p	OXYGEN, DISSOLVED MG/L	02/27/72-07/25/96	9	6.2	6.311	6.9	5.8	0.166	0.408	5.8	5.95	6.75	6.9
00400p	PH (STANDARD UNITS)	02/27/72-07/25/96	9	8.3	8.211	8.4	7.9	0.036	0.19	7.9	8.05	8.35	8.4
00400p	CONVERTED PH (STANDARD UNITS)	02/27/72-07/25/96	9	8.3	8.17	8.4	7.9	0.038	0.195	7.9	8.05	8.35	8.4
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/27/72-07/25/96	9	0.005	0.007	0.013	0.004	0.	0.003	0.004	0.004	0.009	0.013

** - Less than 9 observations ## - Computed with 50% or 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 PAIS0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/27/72-07/25/96	13	5.	5.846	12.	1.	16.974	4.12	1.	1.	10.	11.2
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/10/73-07/25/96	8	55200.	53000.	62700.	40000.	72437142.857	8511.001	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	02/27/72-07/25/96	7	6.2	6.7	9.8	4.2	4.113	2.028	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 PAIS0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400p	PH (STANDARD UNITS)	02/27/72-07/25/96	6	8.3	8.283	8.4	8.1	0.014	0.117	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	02/27/72-07/25/96	6	8.3	8.27	8.4	8.1	0.014	0.118	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/27/72-07/25/96	6	0.005	0.005	0.008	0.004	0.	0.002	**	**	**	**

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

Annual Analysis for 1986 - Station PAIS0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/27/72-07/25/96	13	5.	5.923	13.	1.	18.077	4.252	1.	1.	10.	11.8
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/10/73-07/25/96	9	53500.	56622.222	65500.	43800.	77771944.444	8818.84	43800.	49100.	65300.	65500.
00300p	OXYGEN, DISSOLVED MG/L	02/27/72-07/25/96	8	6.2	6.338	7.9	5.1	0.931	0.965	**	**	**	**
00400p	PH (STANDARD UNITS)	02/27/72-07/25/96	8	8.2	8.056	8.5	7.35	0.195	0.442	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	02/27/72-07/25/96	8	8.189	7.833	8.5	7.35	0.252	0.502	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/27/72-07/25/96	8	0.006	0.015	0.045	0.003	0.	0.017	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 PAIS0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/27/72-07/25/96	15	5.	7.267	15.	1.	27.638	5.257	1.	1.	10.	15.
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/10/73-07/25/96	11	57300.	59072.727	66200.	55900.	14256181.818	3775.736	55900.	57000.	61900.	66120.
00300p	OXYGEN, DISSOLVED MG/L	02/27/72-07/25/96	9	6.2	6.167	8.4	4.1	2.15	1.466	4.1	5.	7.4	8.4
00400p	PH (STANDARD UNITS)	02/27/72-07/25/96	9	8.	8.1	8.4	7.9	0.033	0.18	7.9	8.	8.25	8.4
00400p	CONVERTED PH (STANDARD UNITS)	02/27/72-07/25/96	9	8.	8.071	8.4	7.9	0.033	0.183	7.9	8.	8.25	8.4
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/27/72-07/25/96	9	0.01	0.008	0.013	0.004	0.	0.003	0.004	0.006	0.01	0.013

** - Less than 9 observations ## - Computed with 50% or 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 PAIS0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/27/72-07/25/96	14	5.	7.071	15.	1.	29.148	5.399	1.	1.	11.25	15.
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/10/73-07/25/96	11	62700.	64609.091	70600.	58200.	25464909.091	5046.277	58220.	58700.	69100.	70520.
00300p	OXYGEN, DISSOLVED MG/L	02/27/72-07/25/96	10	6.	5.86	8.6	1.9	3.074	1.753	2.22	5.175	6.775	8.44
00400p	PH (STANDARD UNITS)	02/27/72-07/25/96	9	8.01	8.14	8.59	7.75	0.1	0.317	7.75	7.86	8.445	8.59
00400p	CONVERTED PH (STANDARD UNITS)	02/27/72-07/25/96	9	8.01	8.049	8.59	7.75	0.109	0.331	7.75	7.86	8.445	8.59
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/27/72-07/25/96	9	0.01	0.009	0.018	0.003	0.	0.005	0.003	0.004	0.014	0.018

** - Less than 9 observations ## - Computed with 50% or 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 PAIS0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/27/72-07/25/96	12	5.	6.25	15.	1.	24.386	4.938	1.	1.	10.	14.4
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/10/73-07/25/96	8	68900.	69750.	77200.	62700.	22582857.143	4752.142	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	02/27/72-07/25/96	8	7.	6.875	7.9	5.4	0.814	0.902	**	**	**	**
00400p	PH (STANDARD UNITS)	02/27/72-07/25/96	7	8.1	8.187	8.5	7.89	0.065	0.256	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	02/27/72-07/25/96	7	8.1	8.127	8.5	7.89	0.07	0.264	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/27/72-07/25/96	7	0.008	0.007	0.013	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 box-and-whisker plot

Annual Analysis for 1990 - Station PAIS0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/27/72-07/25/96	15	5.	7.2	15.	1.	26.6	5.158	1.	1.	10.	15.
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/10/73-07/25/96	11	73100.	73618.182	77900.	67200.	9271636.364	3044.936	67900.	71600.	75600.	77660.
00300p	OXYGEN, DISSOLVED MG/L	02/27/72-07/25/96	11	6.6	5.945	7.	0.8	3.077	1.754	1.74	6.1	6.7	6.96
00400p	PH (STANDARD UNITS)	02/27/72-07/25/96	8	8.5	8.45	8.7	8.1	0.054	0.233	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	02/27/72-07/25/96	8	8.5	8.391	8.7	8.1	0.058	0.241	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/27/72-07/25/96	8	0.003	0.004	0.008	0.002	0.	0.002	**	**	**	**

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

Annual Analysis for 1991 - Station PAIS0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/27/72-07/25/96	13	5.	6.308	15.	1.	23.397	4.837	1.	1.	10.	14.2
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/10/73-07/25/96	10	69300.	65140.	75400.	50800.	78249333.333	8845.865	51120.	57375.	72200.	75320.
00300p	OXYGEN, DISSOLVED MG/L	02/27/72-07/25/96	10	6.7	6.62	8.2	3.5	2.095	1.447	3.67	5.95	7.8	8.19
00400p	PH (STANDARD UNITS)	02/27/72-07/25/96	10	8.3	8.33	8.4	8.2	0.005	0.067	8.21	8.3	8.4	8.4
00400p	CONVERTED PH (STANDARD UNITS)	02/27/72-07/25/96	10	8.3	8.325	8.4	8.2	0.005	0.068	8.21	8.3	8.4	8.4
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/27/72-07/25/96	10	0.005	0.005	0.006	0.004	0.	0.001	0.004	0.004	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 box-and-whisker plot

Annual Analysis for 1992 - Station PAIS0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/27/72-07/25/96	15	5.	7.667	19.	1.	34.095	5.839	1.	1.	12.	16.6
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/10/73-07/25/96	11	51800.	48890.909	56300.	38500.	43652909.091	6607.035	38660.	39300.	53600.	55900.
00300p	OXYGEN, DISSOLVED MG/L	02/27/72-07/25/96	9	6.8	7.567	10.1	4.3	4.148	2.037	4.3	6.1	9.45	10.1
00400p	PH (STANDARD UNITS)	02/27/72-07/25/96	9	8.3	8.311	8.4	8.2	0.004	0.06	8.2	8.3	8.35	8.4
00400p	CONVERTED PH (STANDARD UNITS)	02/27/72-07/25/96	9	8.3	8.307	8.4	8.2	0.004	0.06	8.2	8.3	8.35	8.4
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/27/72-07/25/96	9	0.005	0.005	0.006	0.004	0.	0.001	0.004	0.004	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 box-and-whisker plot

Annual Analysis for 1993 - Station PAIS0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/27/72-07/25/96	12	4.5	4.667	10.	1.	10.788	3.284	1.	1.	7.75	9.7
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/10/73-07/25/96	8	47950.	47362.5	57400.	38800.	53396964.286	7307.323	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	02/27/72-07/25/96	7	6.6	6.157	9.	2.4	5.146	2.269	**	**	**	**
00400p	PH (STANDARD UNITS)	02/27/72-07/25/96	8	8.35	8.4	8.7	8.2	0.051	0.227	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	02/27/72-07/25/96	8	8.325	8.352	8.7	8.2	0.054	0.232	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/27/72-07/25/96	8	0.005	0.004	0.006	0.002	0.	0.002	**	**	**	**

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

Annual Analysis for 1994 - Station PAIS0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/27/72-07/25/96	15	5.	5.133	12.	1.	13.41	3.662	1.	1.	9.	10.2
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/10/73-07/25/96	10	54100.	56470.	70900.	46000.	93097888.889	9648.725	46150.	47800.	64950.	70890.
00300p	OXYGEN, DISSOLVED MG/L	02/27/72-07/25/96	9	6.6	6.867	7.7	5.8	0.458	0.676	5.8	6.4	7.65	7.7

** - 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 1994 - Station PAIS0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400p	PH (STANDARD UNITS)	02/27/72-07/25/96	10	8.15	8.271	8.6	8.05	0.05	0.224	8.051	8.09	8.5	8.59
00400p	CONVERTED PH (STANDARD UNITS)	02/27/72-07/25/96	10	8.147	8.224	8.6	8.05	0.053	0.23	8.051	8.09	8.5	8.59
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/27/72-07/25/96	10	0.007	0.006	0.009	0.003	0.	0.003	0.003	0.003	0.008	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

Annual Analysis for 1995 - Station PAIS0100

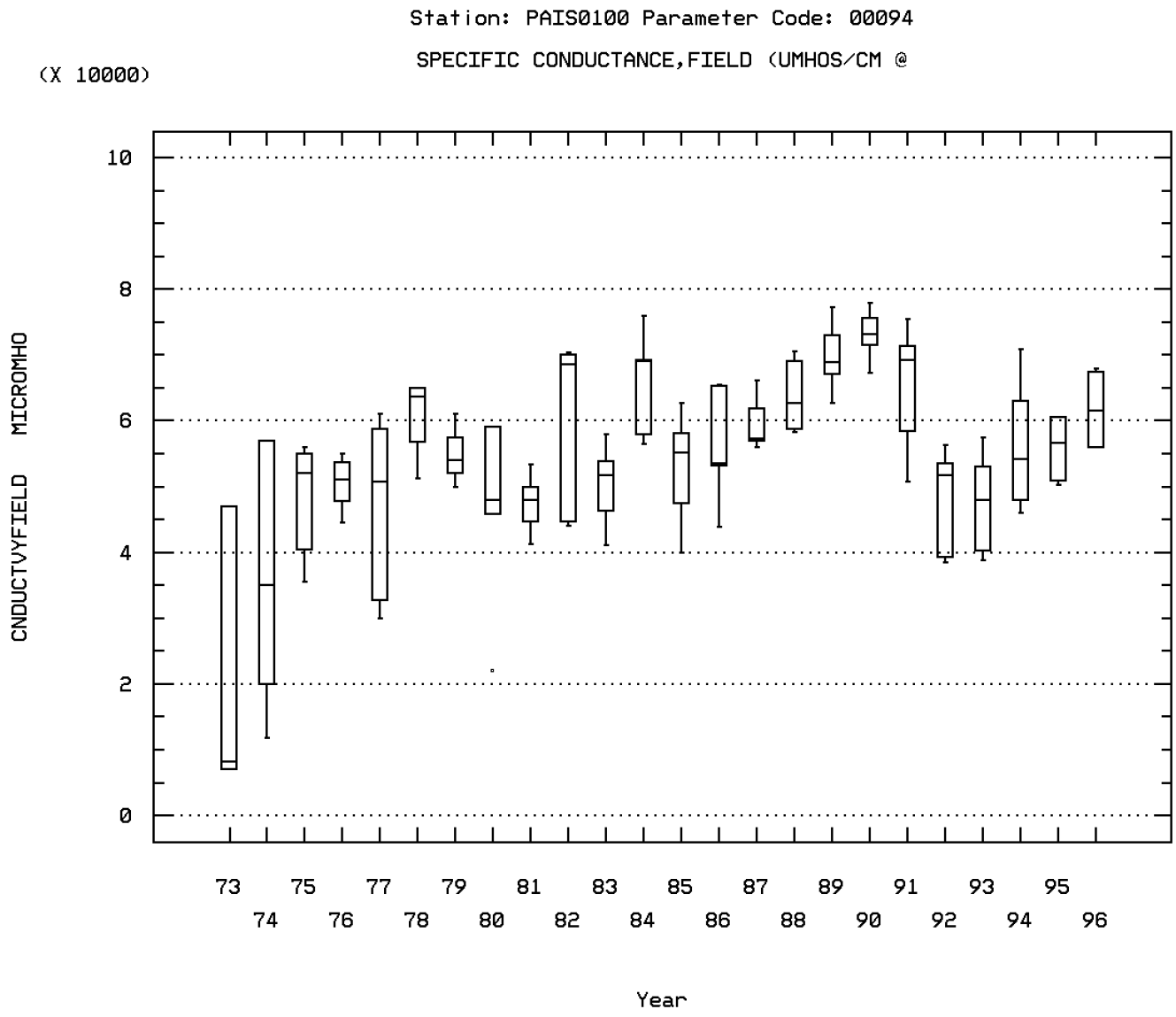
Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/27/72-07/25/96	10	4.5	4.5	10.	1.	12.5	3.536	1.	1.	8.25	9.9
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/10/73-07/25/96	7	56600.	56042.857	60600.	50300.	20726190.476	4552.603	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	02/27/72-07/25/96	6	6.	5.967	7.9	3.6	2.987	1.728	**	**	**	**
00400p	PH (STANDARD UNITS)	02/27/72-07/25/96	7	8.14	8.121	8.2	8.02	0.005	0.072	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	02/27/72-07/25/96	7	8.14	8.116	8.2	8.02	0.005	0.072	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/27/72-07/25/96	7	0.007	0.008	0.01	0.006	0.	0.001	**	**	**	**

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

Annual Analysis for 1996 - Station PAIS0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/27/72-07/25/96	7	3.	3.571	7.	1.	7.286	2.699	**	**	**	**
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/10/73-07/25/96	6	61500.	61716.667	68000.	55900.	27677666.667	5260.957	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	02/27/72-07/25/96	4	6.05	6.175	8.3	4.3	2.689	1.64	**	**	**	**
00400p	PH (STANDARD UNITS)	02/27/72-07/25/96	6	8.375	8.347	8.89	7.77	0.249	0.499	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	02/27/72-07/25/96	6	8.375	8.129	8.89	7.77	0.306	0.553	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/27/72-07/25/96	6	0.004	0.007	0.017	0.001	0.	0.007	**	**	**	**

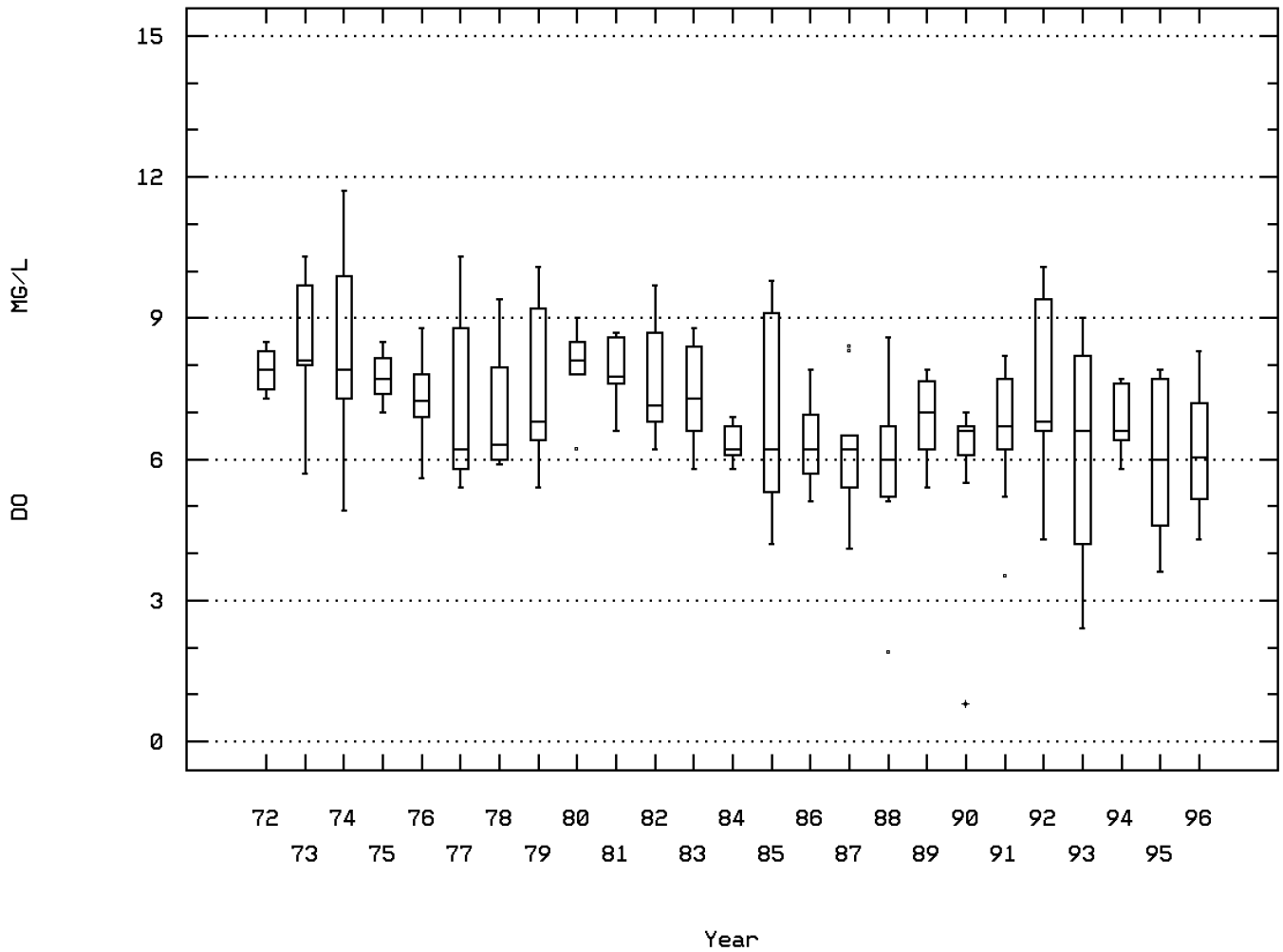
** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot



LAGUNA MADRE ICWW/BAFFIN BAY

Station: PAIS0100 Parameter Code: 00300

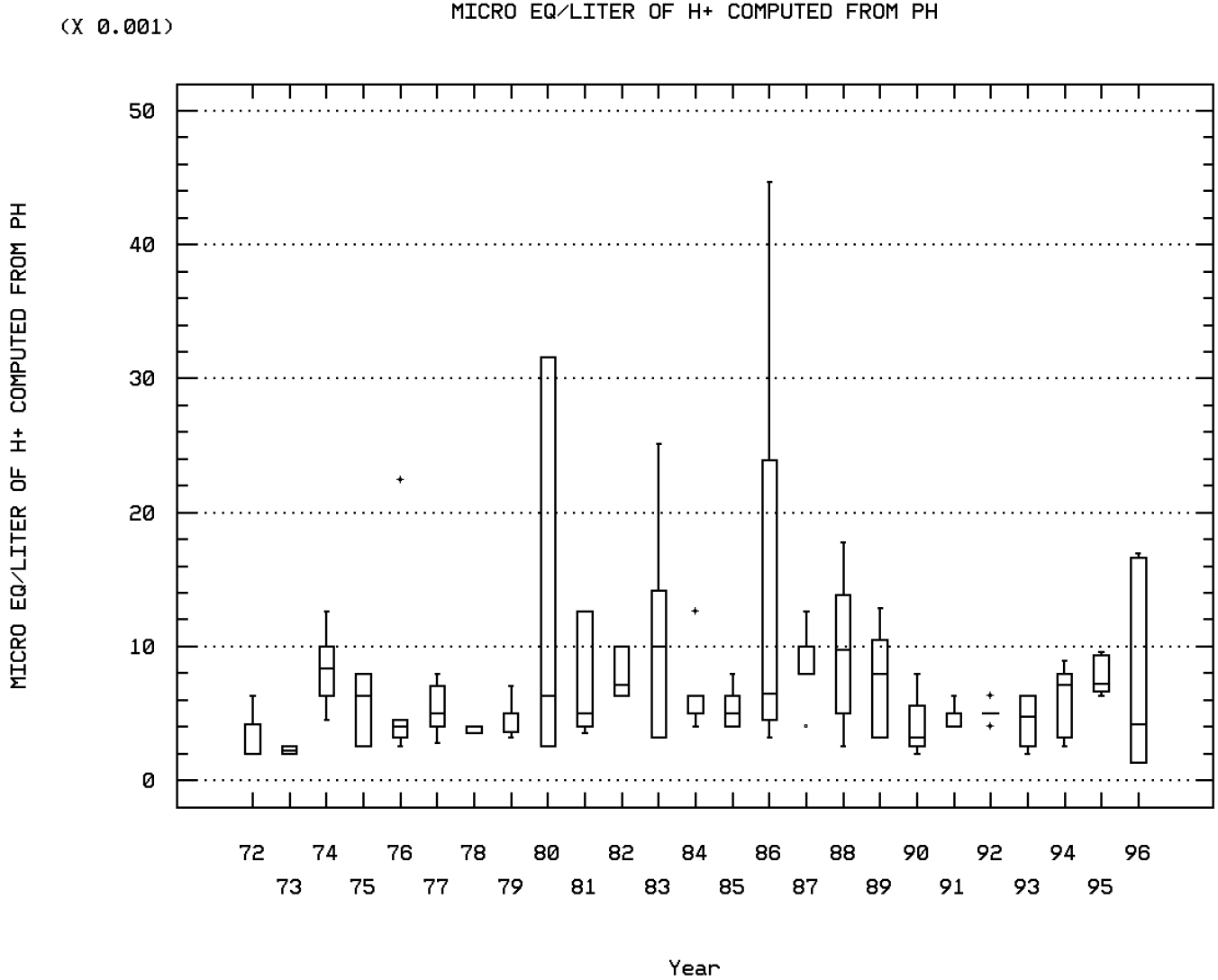
OXYGEN, DISSOLVED



LAGUNA MADRE ICWW/BAFFIN BAY

Station: PAIS0100 Parameter Code: 00400

MICRO EQ/LITER OF H+ COMPUTED FROM PH



LAGUNA MADRE ICWW/BAFFIN BAY

Seasonal Analysis for Season #1: 5/01 to 10/31 - Station PAIS0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/27/72-07/25/96	130	5.	5.362	15.	1.	18.744	4.329	1.	1.	10.	10.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/27/72-07/25/96	82	28.35	27.74	32.	20.	7.457	2.731	23.9	25.1	30.025	30.5
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	02/27/72-11/14/85	44	82.65	81.493	89.6	68.	25.383	5.038	73.85	77.675	85.625	86.9
00077	TRANSPARENCY, SECCHI DISC (INCHES)	01/11/77-04/17/89	21	26.	26.762	40.	14.	51.89	7.204	16.4	22.	33.	36.
00078	TRANSPARENCY, SECCHI DISC (METERS)	10/12/89-07/25/96	13	0.5	0.495	1.	0.2	0.044	0.211	0.24	0.3	0.605	0.868
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/10/73-07/25/96	93	56300.	56272.581	77900.	7000.	159784375.877	12640.584	42120.	50900.	67300.	70380.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/27/72-02/02/88	22	52650.	56207.136	93016.	8120.	427816280.409	20683.72	26390.	46900.	73752.	90171.2
00300p	OXYGEN, DISSOLVED MG/L	02/27/72-07/25/96	86	6.3	6.191	10.3	0.8	2.525	1.589	4.3	5.475	6.925	7.93
00400p	PH (STANDARD UNITS)	02/27/72-07/25/96	82	8.4	8.343	8.89	7.6	0.066	0.257	8.006	8.2	8.5	8.685
00400p	CONVERTED PH (STANDARD UNITS)	02/27/72-07/25/96	82	8.4	8.259	8.89	7.6	0.073	0.271	8.006	8.2	8.5	8.685
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/27/72-07/25/96	82	0.004	0.006	0.025	0.001	0.	0.004	0.002	0.003	0.006	0.01
00403	PH, LAB, STANDARD UNITS SU	02/27/72-02/02/88	27	8.3	8.252	8.6	7.4	0.066	0.256	7.9	8.2	8.4	8.6
00403	CONVERTED PH, LAB, STANDARD UNITS	02/27/72-02/02/88	27	8.3	8.155	8.6	7.4	0.075	0.275	7.9	8.2	8.4	8.6
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/27/72-02/02/88	27	0.005	0.007	0.04	0.003	0.	0.007	0.003	0.004	0.006	0.013
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/07/76-07/25/96	37	130.	132.811	189.	96.	480.158	21.913	106.	115.5	147.	165.6
00480	SALINITY - PARTS PER THOUSAND	11/14/85-07/25/96	25	37.3	39.22	53.9	24.7	72.854	8.535	26.06	34.65	46.65	51.88
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/27/72-07/25/96	46	34.5	41.717	132.	10.	938.696	30.638	14.	18.25	51.5	93.
00535p	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	02/27/72-07/25/96	46	11.5	13.087	41.	3.	76.837	8.766	4.	6.	17.25	25.3
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/27/72-07/25/96	45	0.025	0.062	0.3	0.005	0.004	0.065	0.01	0.02	0.1	0.168
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/07/76-06/08/94	21	0.015	0.022	0.05	0.005	0.	0.015	0.01	0.013	0.03	0.05
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/27/72-04/21/94	39	0.015	0.034	0.11	0.005	0.001	0.032	0.005	0.01	0.05	0.1
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	02/27/72-11/14/85	26	0.145	0.145	0.34	0.06	0.003	0.058	0.087	0.115	0.155	0.219
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	10/23/73-11/14/85	23	0.03	0.388	8.04	0.015	2.785	1.669	0.015	0.015	0.03	0.186
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	02/27/72-07/25/96	45	0.05	0.056	0.11	0.02	0.	0.02	0.03	0.04	0.07	0.084
00671p	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/23/73-07/25/96	41	0.02	0.092	2.63	0.005	0.166	0.407	0.005	0.005	0.05	0.068
00680p	CARBON, TOTAL ORGANIC (MG/L AS C)	07/17/74-07/25/96	37	8.	7.924	21.	0.5	29.534	5.435	0.5	3.	11.	14.6
00940p	CHLORIDE,TOTAL IN WATER MG/L	02/27/72-07/25/96	46	20471.	19509.674	28700.	287.	36050243.158	6004.185	11465.	17425.	23254.25	25686.2
00945p	SULFATE, TOTAL (MG/L AS SO4)	02/27/72-07/25/96	45	3080.	3036.844	4600.	309.	609026.68	780.402	2336.	2705.	3582.	3855.6
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	10/23/73-05/08/85	18 ##	5.	8.611	92.	0.	443.046	21.049	0.	0.5	5.	18.2
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	10/23/73-05/08/85	18 ##	0.699	0.497	1.964	-0.301	0.323	0.568	0.	-0.301	0.699	1.096
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			3.144								
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/23/73-07/25/96	15 ##	1.5	1.633	5.	1.	0.945	0.972	1.	1.	1.5	3.2
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/23/73-07/25/96	15 ##	0.176	0.172	0.699	0.	0.029	0.172	0.	0.	0.176	0.46
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			1.487								
32211p	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	02/27/72-07/25/96	43	6.18	13.065	59.4	0.5	195.052	13.966	2.2	2.5	20.	37.18
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	10/07/76-07/25/96	34 ##	2.5	4.407	36.5	0.	47.998	6.928	0.	1.225	2.75	10.1
72053	DAYS SINCE PRECIPITATION EVENT DAYS	10/12/89-07/25/96	11	5.	4.727	5.	2.	0.818	0.905	2.6	5.	5.	5.

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

Seasonal Analysis for Season #2: 11/01 to 4/30 - Station PAIS0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/27/72-07/25/96	142	5.	6.077	19.	1.	22.115	4.703	1.	1.	10.	12.7
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/27/72-07/25/96	86	19.6	18.884	28.6	9.	19.374	4.402	12.2	15.6	22.425	24.09
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	02/27/72-11/14/85	39	64.4	65.218	82.	48.2	65.855	8.115	53.8	60.	71.6	75.2
00077	TRANSPARENCY, SECCHI DISC (INCHES)	01/11/77-04/17/89	18	28.5	34.278	66.	13.	242.212	15.563	14.8	24.	46.5	60.6
00078	TRANSPARENCY, SECCHI DISC (METERS)	10/12/89-07/25/96	16	0.3	0.429	1.37	0.1	0.085	0.292	0.156	0.3	0.578	0.852
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/10/73-07/25/96	99	55900.	55310.606	75600.	11850.	153727564.935	12398.692	39300.	48000.	62700.	70900.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/27/72-02/02/88	20	48577.	51789.95	86856.	25032.	174090720.261	13194.344	40930.	43500.	59776.25	70940.8
00300p	OXYGEN, DISSOLVED MG/L	02/27/72-07/25/96	93	7.6	7.526	11.7	4.1	2.006	1.416	5.92	6.6	8.45	9.46
00400p	PH (STANDARD UNITS)	02/27/72-07/25/96	91	8.2	8.174	8.7	7.35	0.074	0.272	7.892	8.	8.37	8.5
00400p	CONVERTED PH (STANDARD UNITS)	02/27/72-07/25/96	91	8.2	8.077	8.7	7.35	0.083	0.289	7.892	8.	8.37	8.5
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/27/72-07/25/96	91	0.006	0.008	0.045	0.002	0.	0.007	0.003	0.004	0.01	0.013
00403	PH, LAB, STANDARD UNITS SU	02/27/72-02/02/88	25	8.2	8.22	8.7	7.9	0.036	0.189	7.96	8.1	8.3	8.5
00403	CONVERTED PH, LAB, STANDARD UNITS	02/27/72-02/02/88	25	8.2	8.183	8.7	7.9	0.037	0.193	7.96	8.1	8.3	8.5
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/27/72-02/02/88	25	0.006	0.007	0.013	0.002	0.	0.003	0.003	0.005	0.008	0.011

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

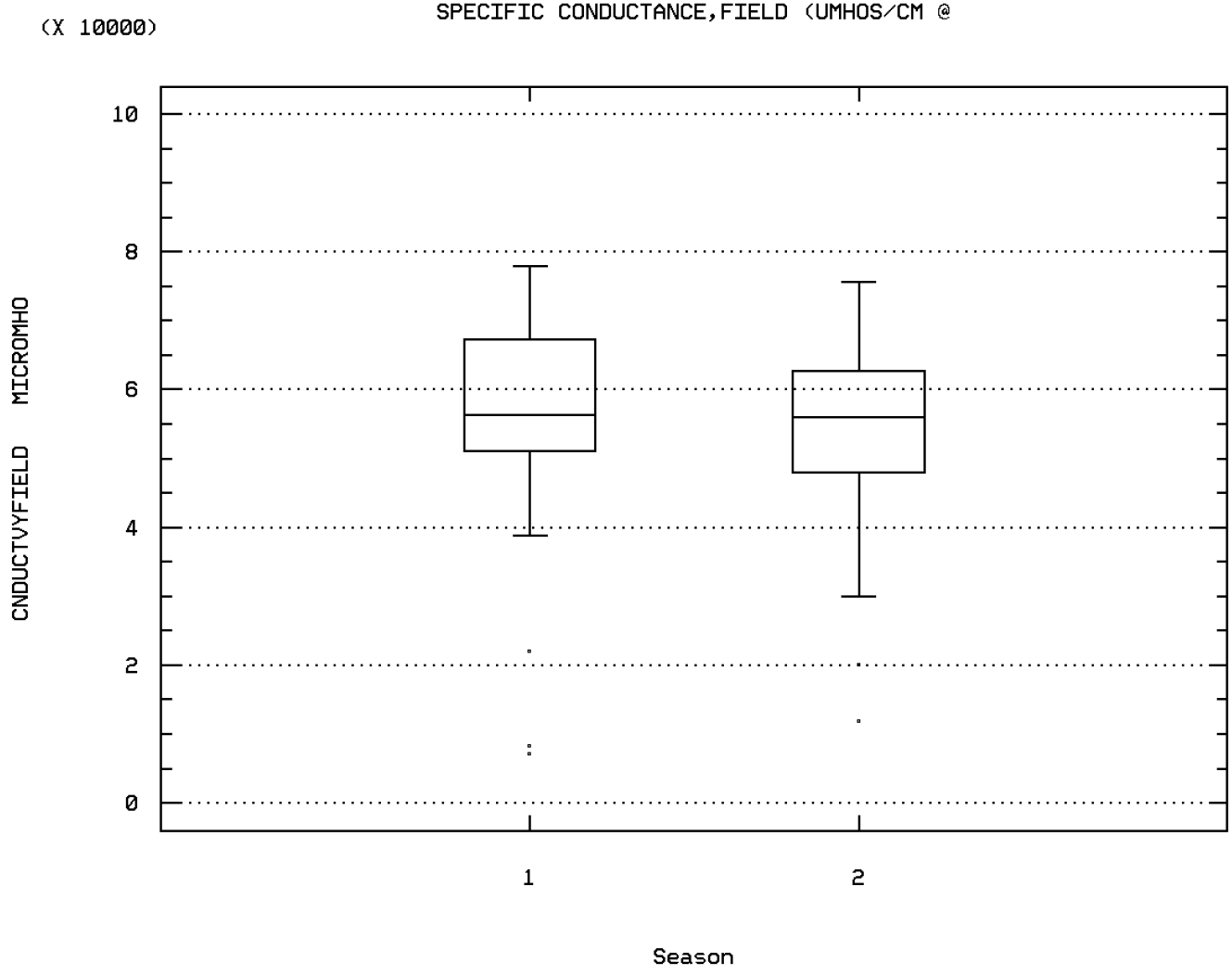
Seasonal Analysis for Season #2: 11/01 to 4/30 - Station PAIS0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/07/76-07/25/96	36	156.	159.806	304.	107.	1269.418	35.629	119.6	140.25	180.25	187.8
00480	SALINITY - PARTS PER THOUSAND	11/14/85-07/25/96	34	41.	40.294	52.3	24.6	69.873	8.359	29.75	33.375	47.65	51.65
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/27/72-07/25/96	46	31.5	47.696	238.	5.	2207.461	46.984	11.4	18.	62.25	120.3
00535p	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	02/27/72-07/25/96	46	12.	17.163	110.	2.	346.423	18.612	5.	6.	20.5	38.8
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/27/72-07/25/96	46	0.05	0.118	1.28	0.005	0.054	0.232	0.005	0.02	0.113	0.241
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/07/76-06/08/94	18 ##	0.01	0.01	0.015	0.005	0.	0.005	0.005	0.005	0.015	0.015
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/27/72-04/21/94	37	0.03	0.076	1.7	0.005	0.076	0.276	0.005	0.01	0.045	0.098
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	02/27/72-11/14/85	21	0.1	0.115	0.4	0.015	0.006	0.081	0.036	0.06	0.14	0.214
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	10/23/73-11/14/85	17	0.03	0.041	0.13	0.015	0.001	0.033	0.015	0.015	0.06	0.098
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	02/27/72-07/25/96	45	0.05	0.054	0.13	0.005	0.001	0.029	0.02	0.03	0.08	0.1
00671p	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/23/73-07/25/96	40	0.03	0.03	0.08	0.005	0.	0.021	0.005	0.01	0.048	0.06
00680p	CARBON, TOTAL ORGANIC (MG/L AS C)	07/17/74-07/25/96	37	7.	6.378	15.	0.5	19.908	4.462	0.5	1.	9.5	12.4
00940p	CHLORIDE,TOTAL IN WATER MG/L	02/27/72-07/25/96	46	19950.	20320.717	32000.	6380.	30461915.052	5519.231	14280.	16215.5	24259.75	29090.
00945p	SULFATE, TOTAL (MG/L AS SO4)	02/27/72-07/25/96	46	2800.	2918.283	5980.	920.	799779.274	894.304	1849.	2500.	3315.	3839.
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	10/23/73-05/08/85	15 ##	5.	3.633	10.	0.	8.445	2.906	0.	0.5	5.	7.6
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	10/23/73-05/08/85	15 ##	0.699	0.445	1.	-0.301	0.16	0.4	0.	-0.301	0.699	0.867
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			2.784								
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/23/73-07/25/96	22 ##	1.5	2.091	10.	1.	3.944	1.986	1.	1.375	1.625	4.4
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/23/73-07/25/96	22 ##	0.176	0.23	1.	0.	0.059	0.243	0.	0.132	0.207	0.632
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			1.7								
32211p	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	02/27/72-07/25/96	43	7.3	13.793	77.8	0.5	262.162	16.191	1.16	2.5	20.	34.84
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	10/07/76-07/25/96	34 ##	1.9	3.282	20.2	0.	24.551	4.955	0.	0.5	2.5	12.5
72053	DAYS SINCE PRECIPITATION EVENT DAYS	10/12/89-07/25/96	15	4.	3.5	5.	1.	2.75	1.658	1.	2.	5.	5.

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

Station: PAIS0100 Parameter Code: 00094

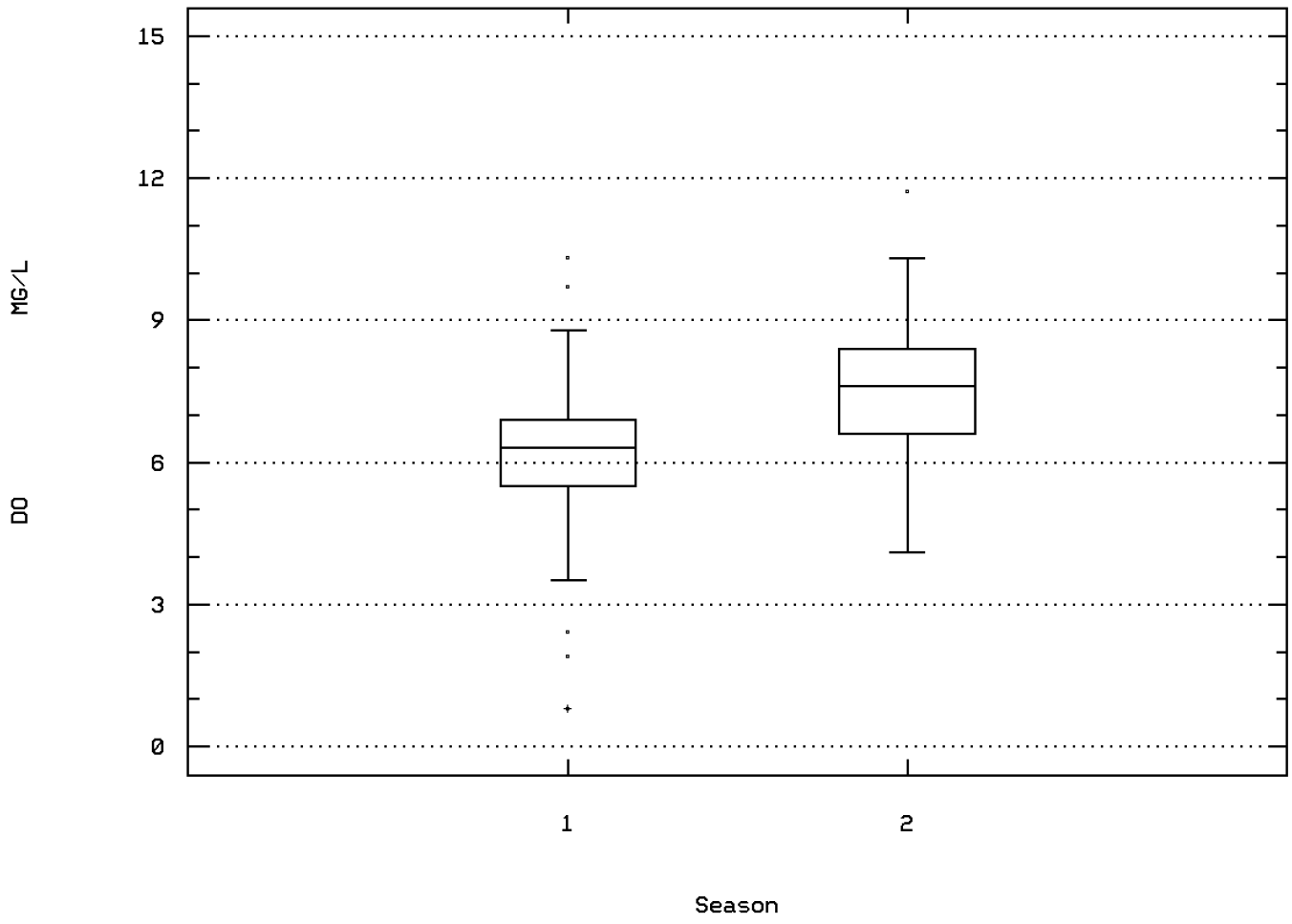
SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @



LAGUNA MADRE ICWW/BAFFIN BAY

Station: PAIS0100 Parameter Code: 00300

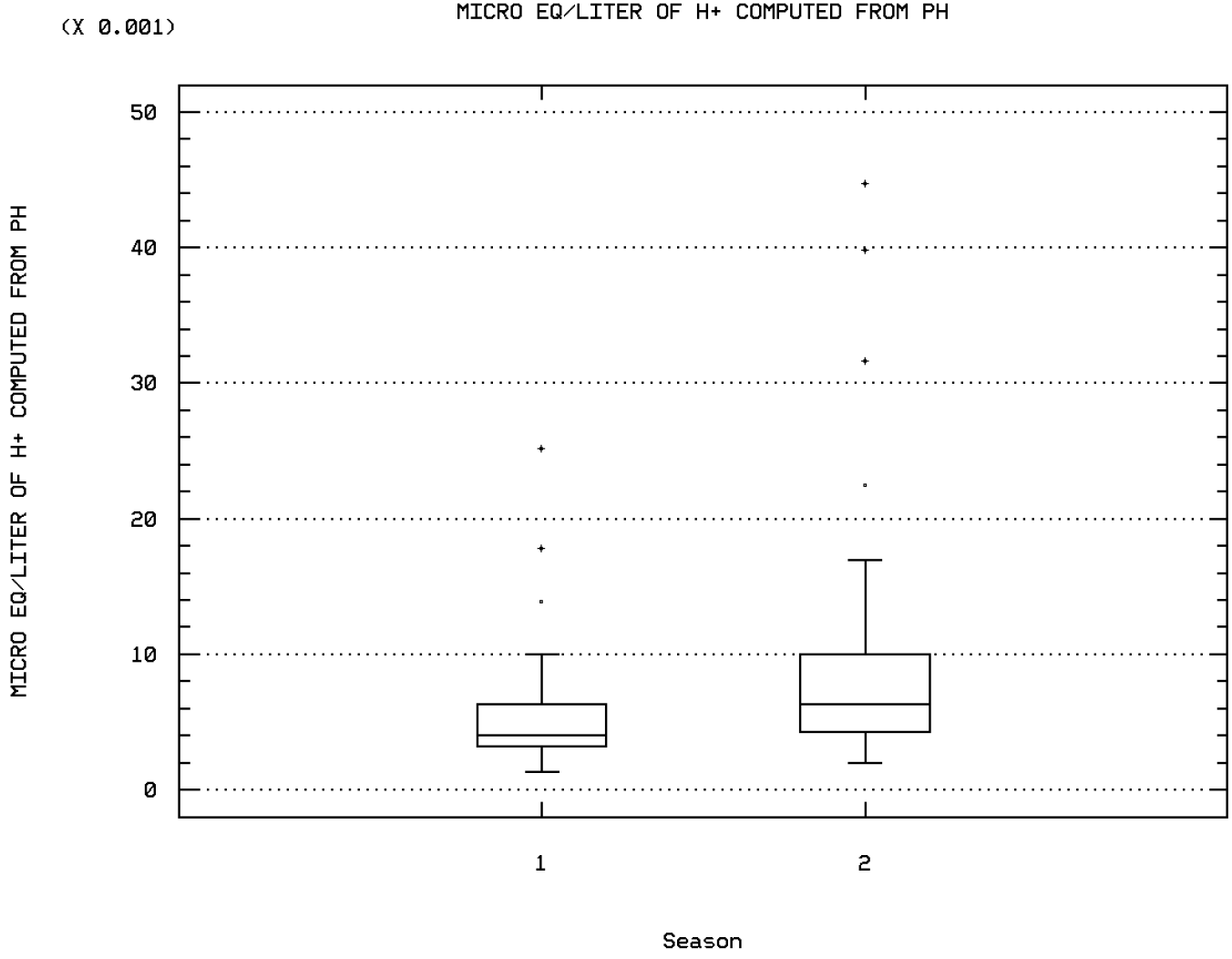
OXYGEN, DISSOLVED



LAGUNA MADRE ICWW/BAFFIN BAY

Station: PAIS0100 Parameter Code: 00400

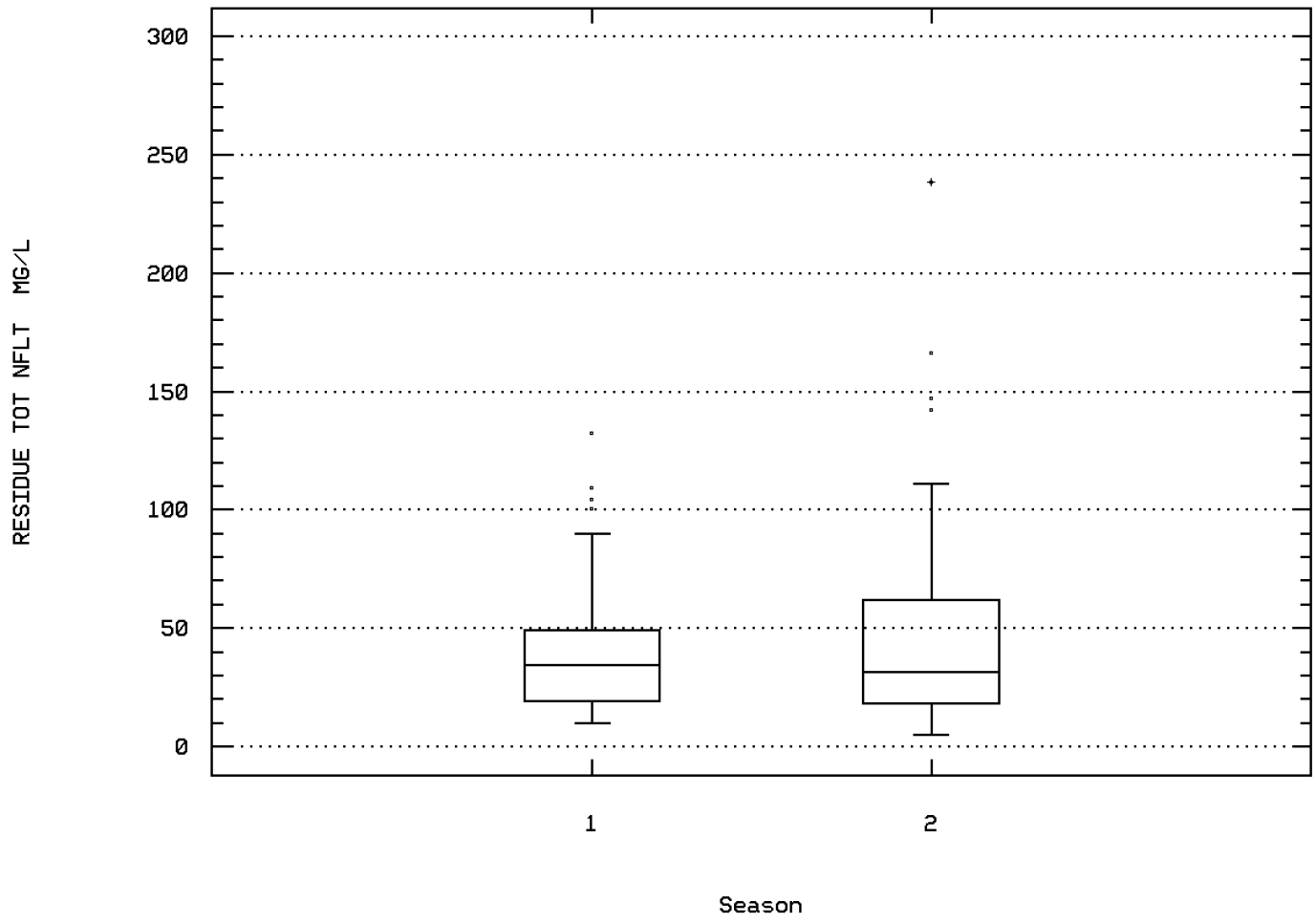
MICRO EQ/LITER OF H+ COMPUTED FROM PH



LAGUNA MADRE ICWW/BAFFIN BAY

Station: PAIS0100 Parameter Code: 00530

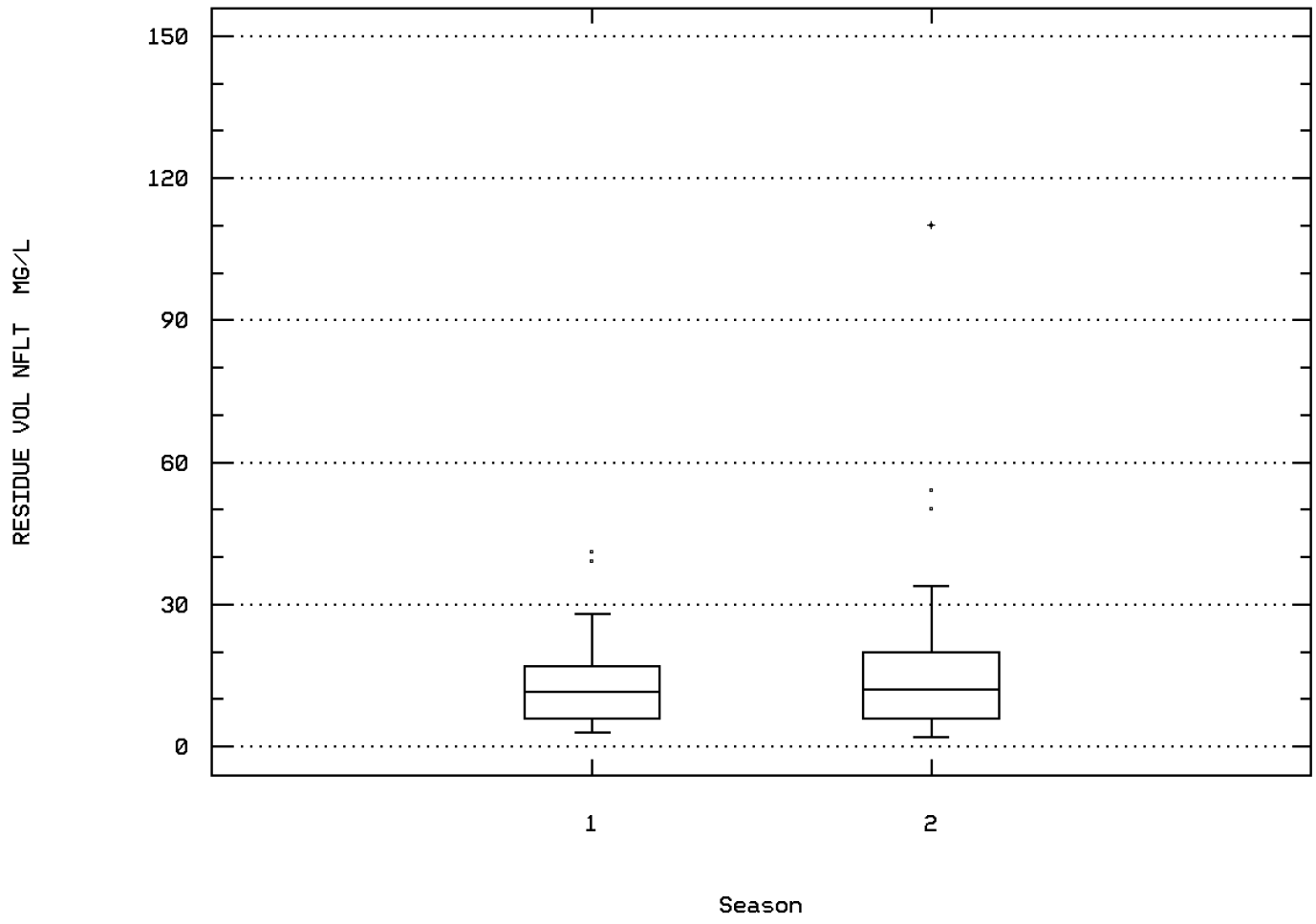
RESIDUE, TOTAL NONFILTRABLE (MG/L)



LAGUNA MADRE ICWW/BAFFIN BAY

Station: PAIS0100 Parameter Code: 00535

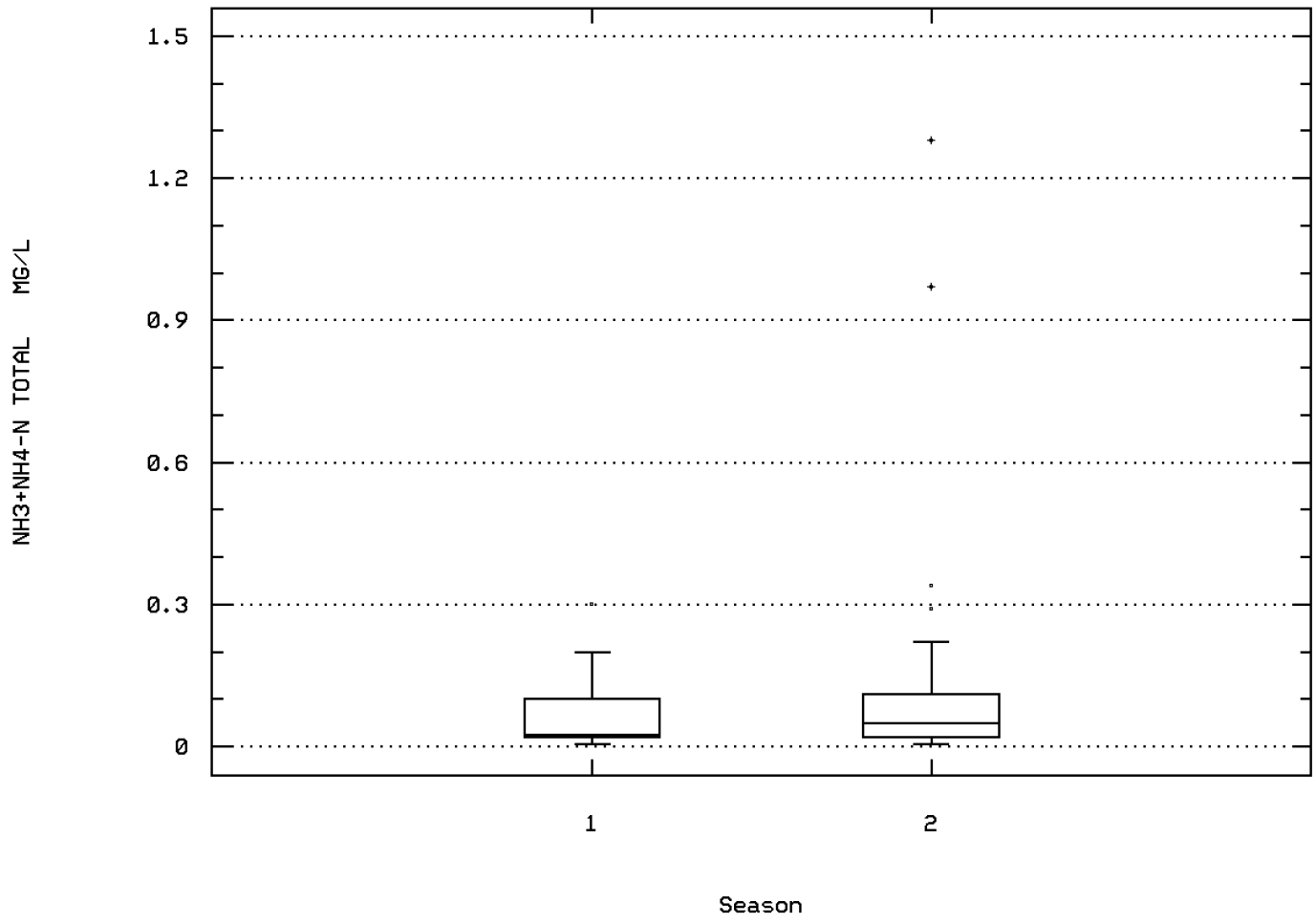
RESIDUE, VOLATILE NONFILTRABLE (MG/L)



LAGUNA MADRE ICWW/BAFFIN BAY

Station: PAIS0100 Parameter Code: 00610

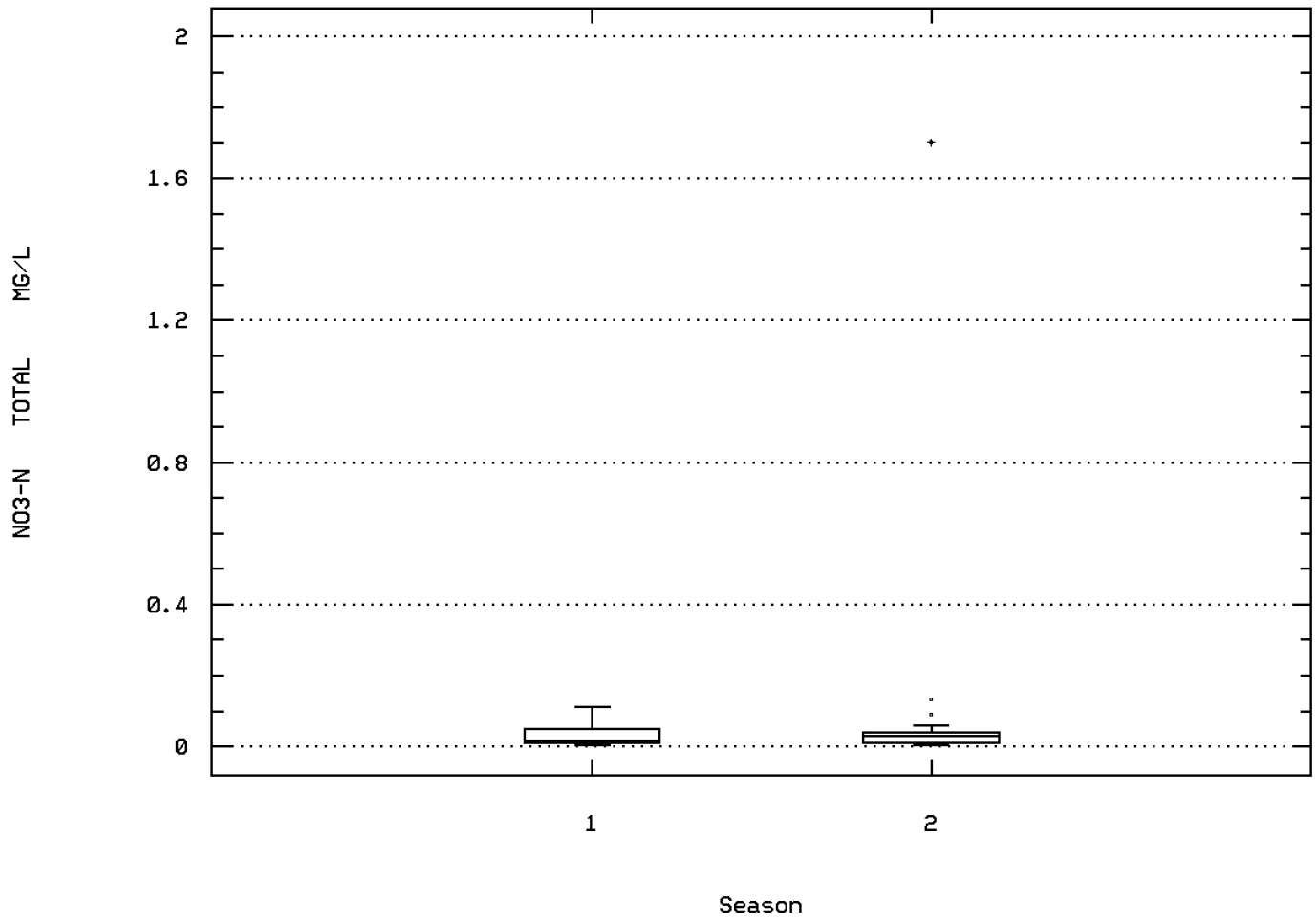
NITROGEN, AMMONIA, TOTAL (MG/L AS N)



LAGUNA MADRE ICWW/BAFFIN BAY

Station: PAIS0100 Parameter Code: 00620

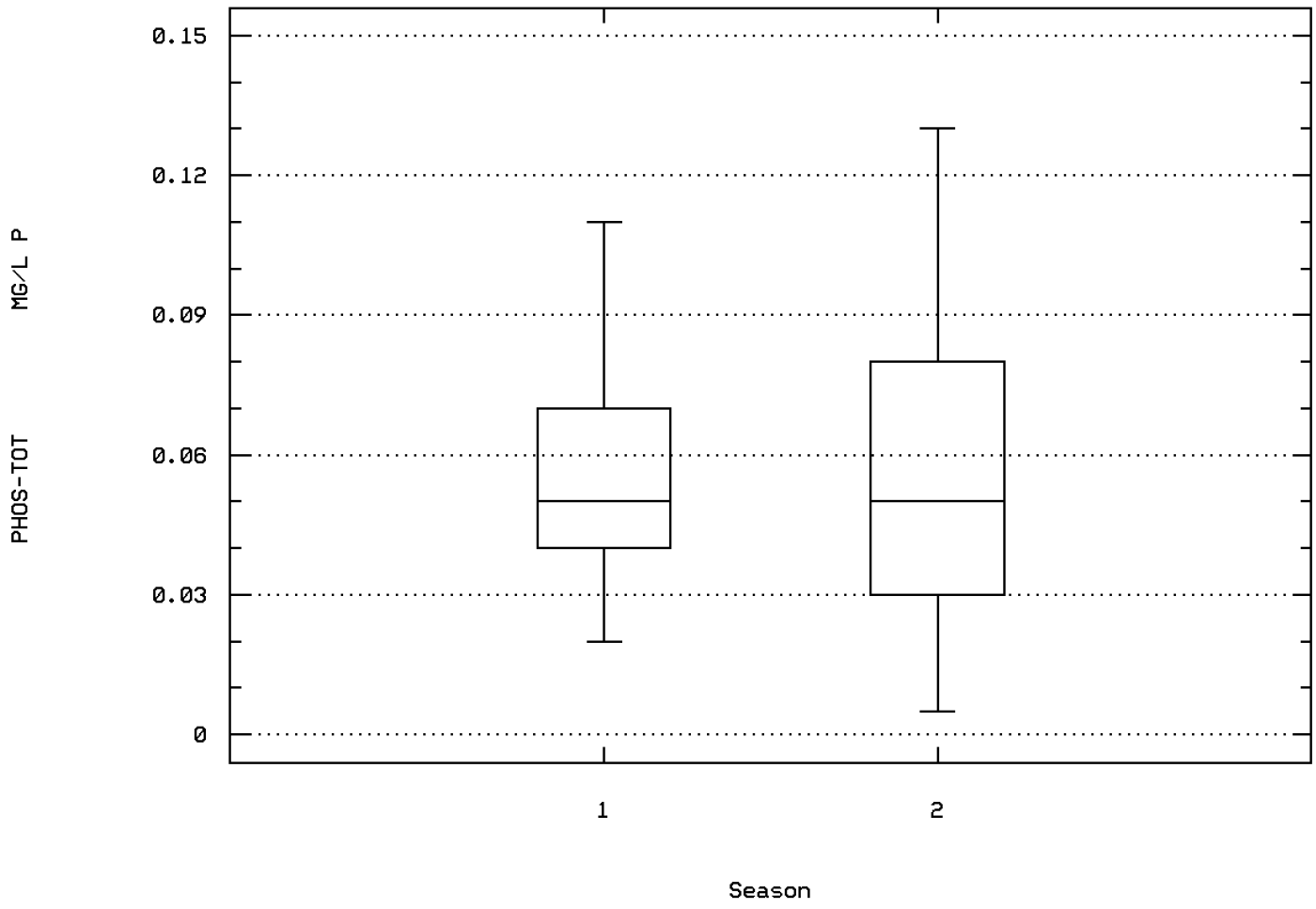
NITRATE NITROGEN, TOTAL (MG/L AS N)



LAGUNA MADRE ICWW/BAFFIN BAY

Station: PAIS0100 Parameter Code: 00665

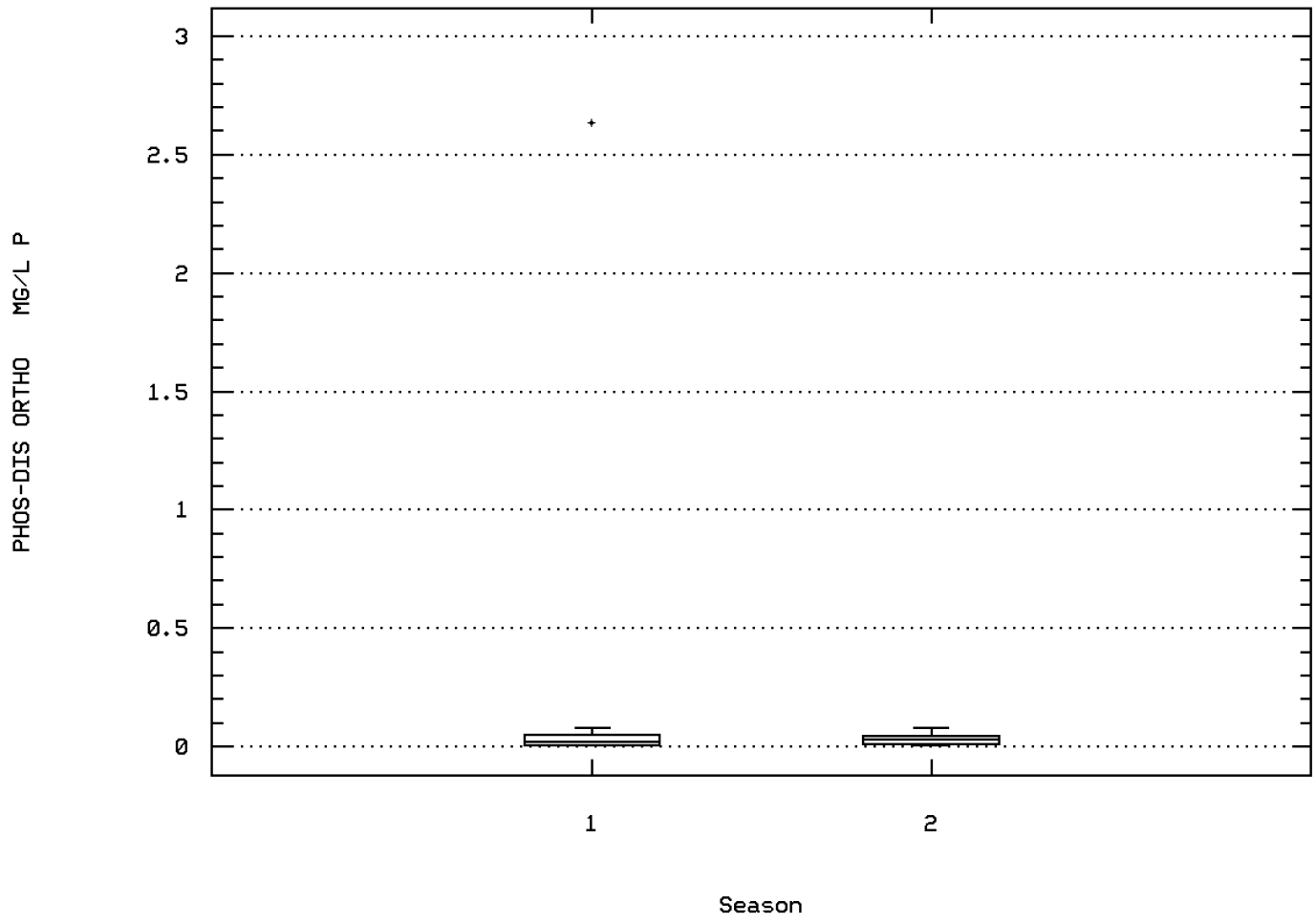
PHOSPHORUS, TOTAL (MG/L AS P)



LAGUNA MADRE ICWW/BAFFIN BAY

Station: PAIS0100 Parameter Code: 00671

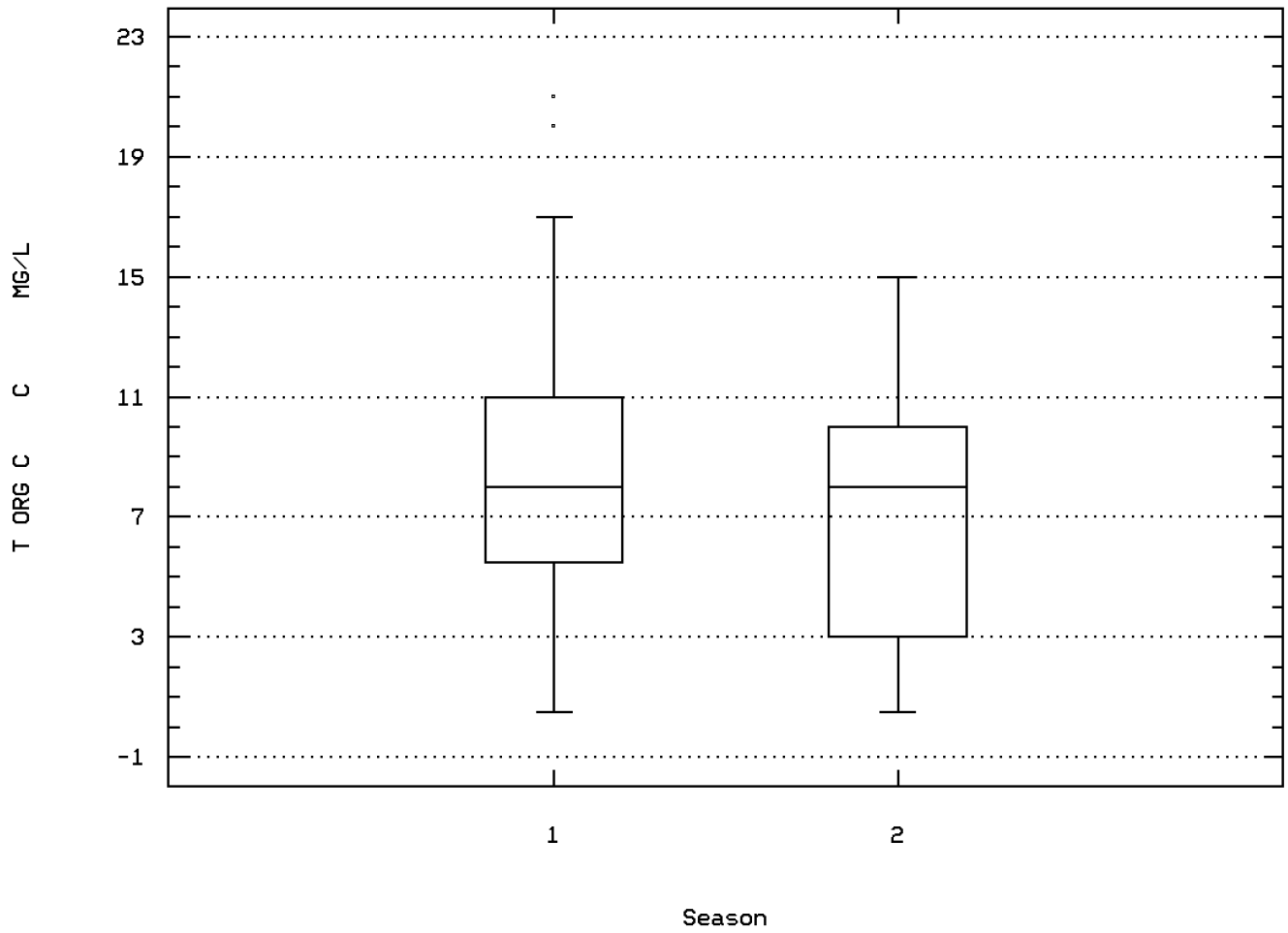
PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (M



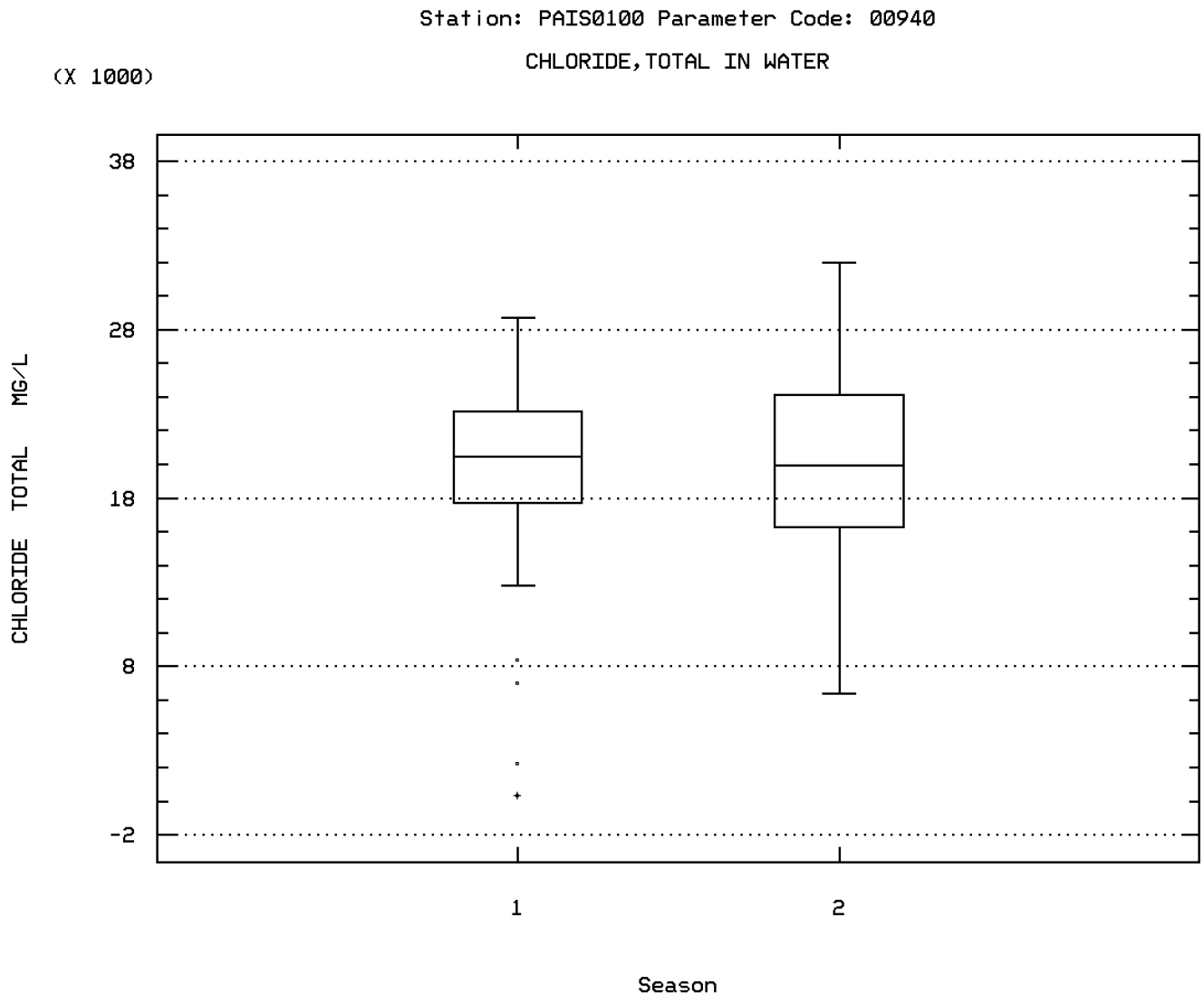
LAGUNA MADRE ICWW/BAFFIN BAY

Station: PAIS0100 Parameter Code: 00680

CARBON, TOTAL ORGANIC (MG/L AS C)



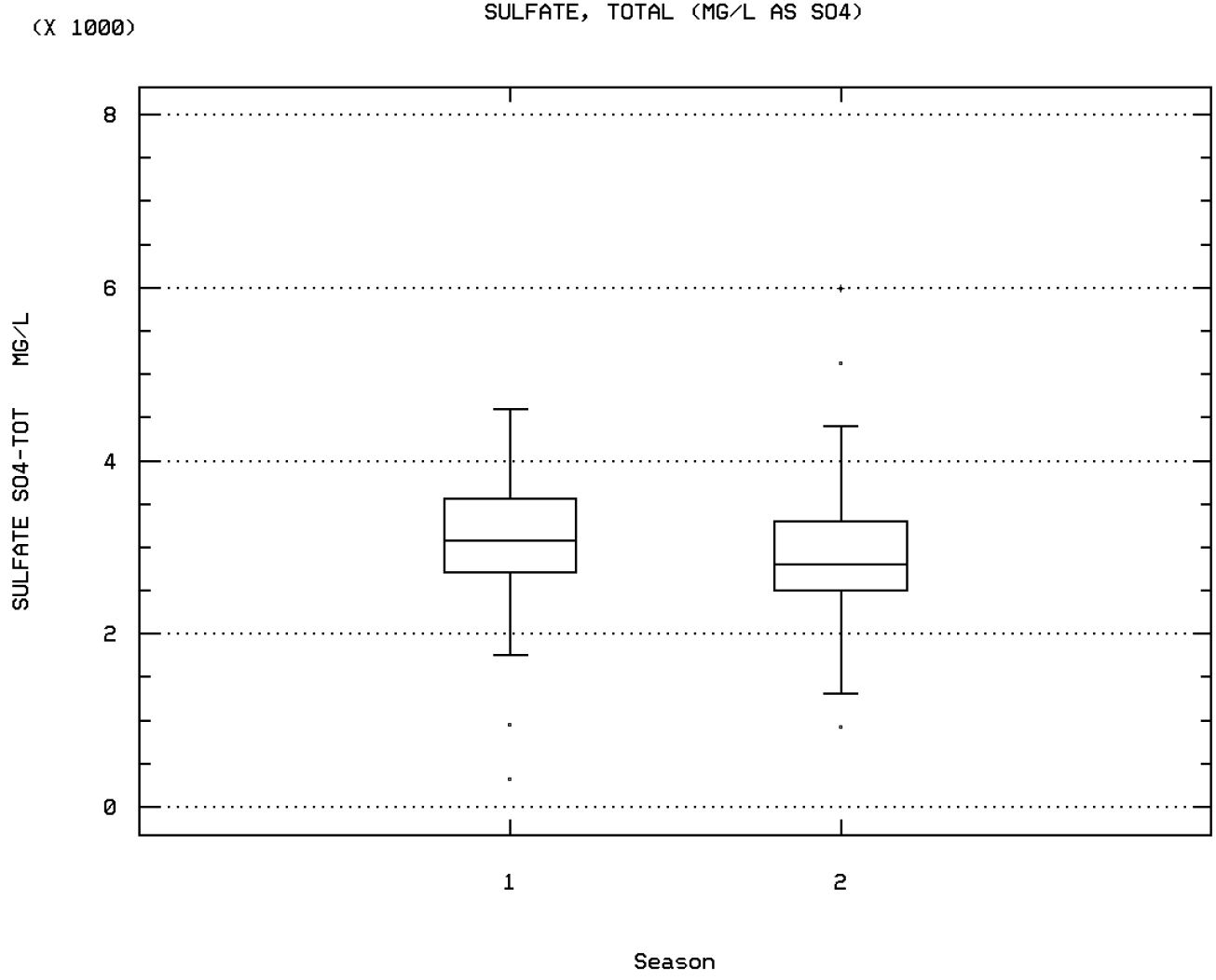
LAGUNA MADRE ICWW/BAFFIN BAY



LAGUNA MADRE ICWW/BAFFIN BAY

Station: PAIS0100 Parameter Code: 00945

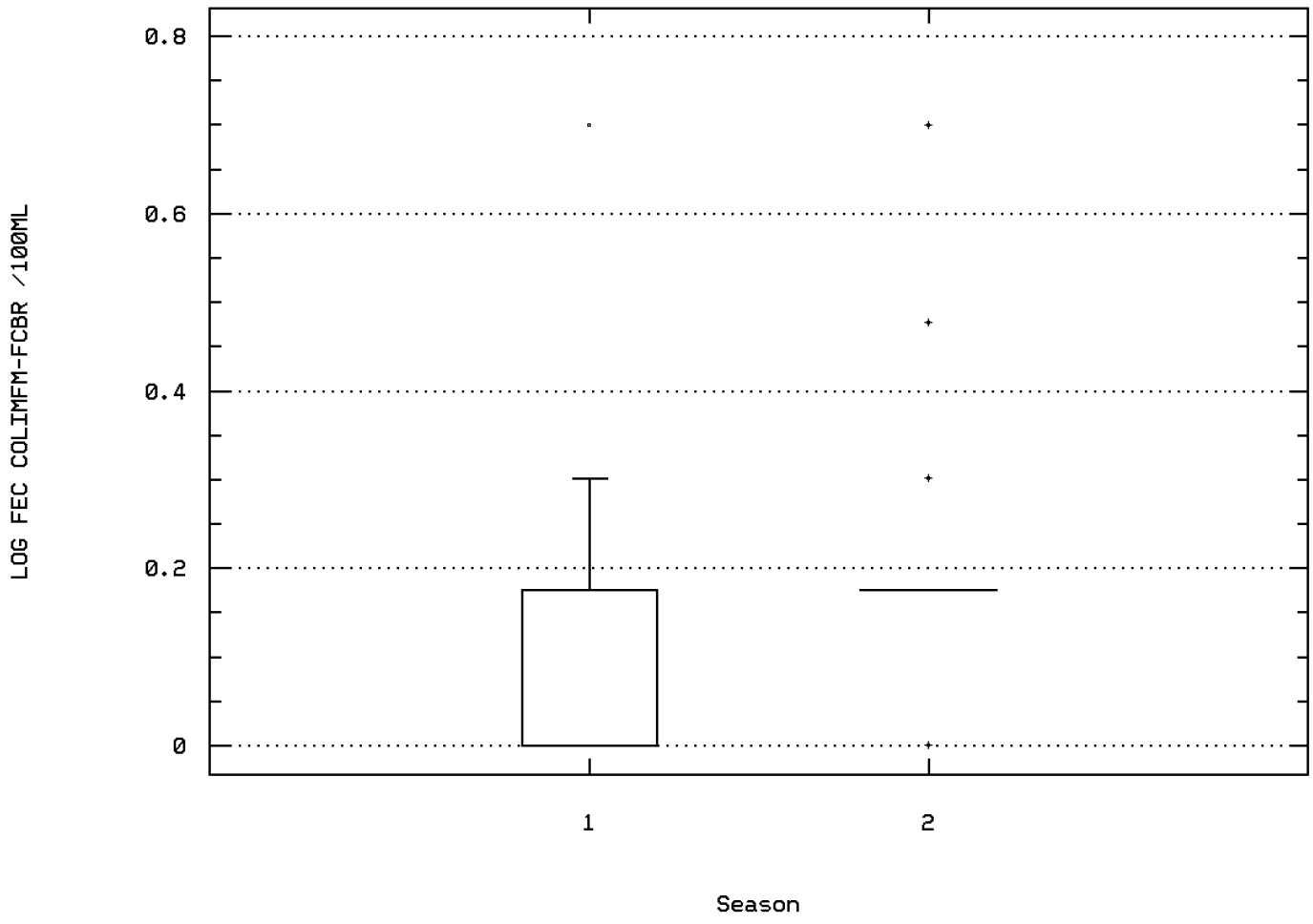
SULFATE, TOTAL (MG/L AS SO4)



LAGUNA MADRE ICWW/BAFFIN BAY

Station: PAIS0100 Parameter Code: 31616

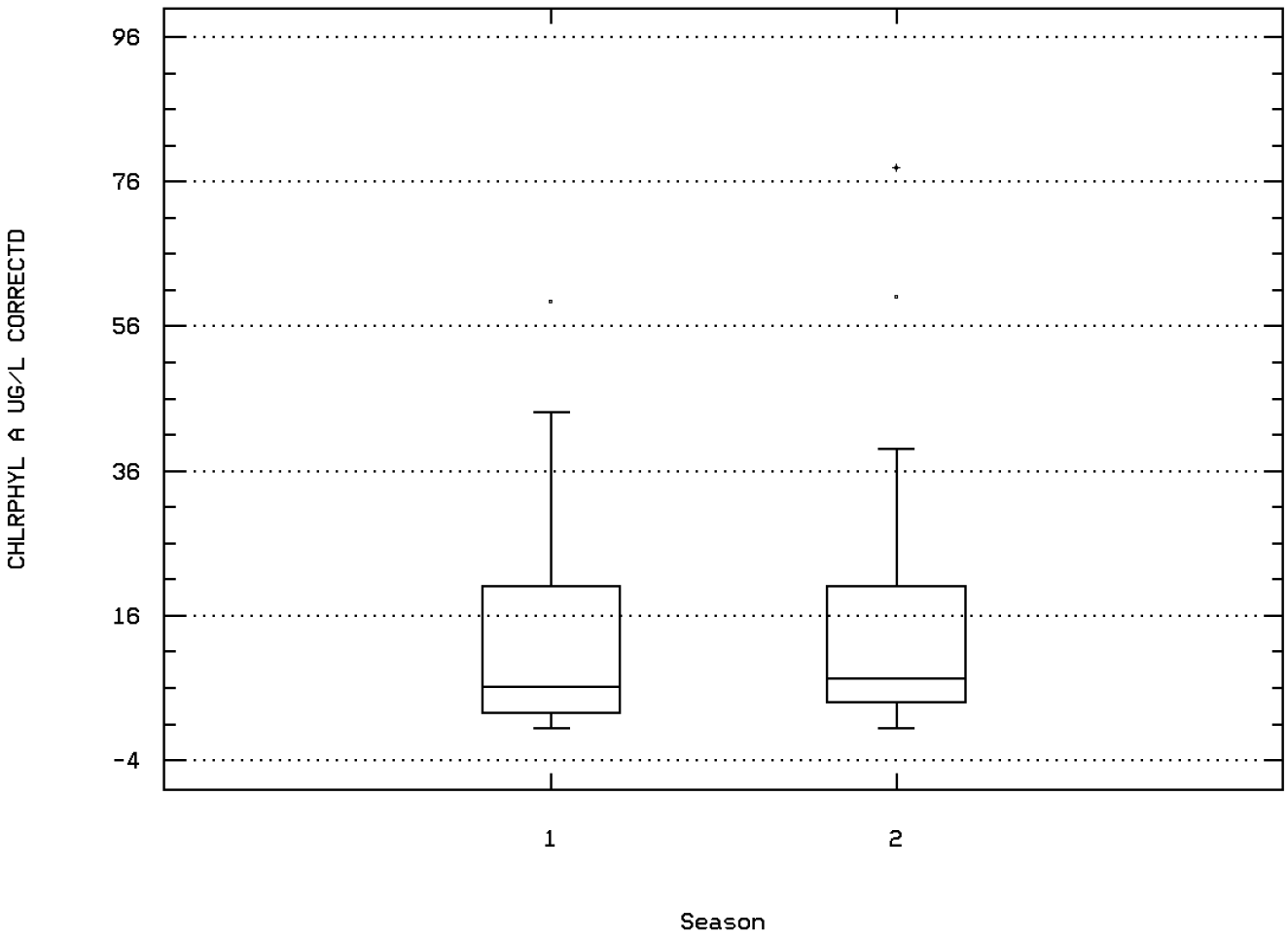
LOG FECAL COLIFORM,MEMBR FILTER,M-FC BR



LAGUNA MADRE ICWW/BAFFIN BAY

Station: PAIS0100 Parameter Code: 32211

CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC A



LAGUNA MADRE ICWW/BAFFIN BAY

Station Inventory for Station: PAIS0101

NPS Station ID: PAIS0101 LAT/LON: 27.277559/ -97.409698 Agency: 11NPSWRD Date Created: 02/27/99
Location: MARKER 121 MOUTH OF BAFFIN BAY FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): PAIS_2491_100
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110207 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110207 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE POINT OF ROCKS TEXAS 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT MARKER 121 ON THE INTRACOASTAL WATERWAY AT THE MOUTH OF BAFFIN BAY. DATA ARE FROM A REPORT BY STEVE WARSHAW OF THE TEXAS WATER QUALITY BOARD; "WATER QUALITY SEGMENT REPORT FOR SEGMENT NO. 2491 LAGUNA MADRE;" JUNE 1975. "THE REPORT IS DESIGNED TO DESCRIBE PREVAILING WATER QUALITY IN A SEGMENT AND TO PROVIDE A BASIS FOR DECISION MAKING IN THE CONTINUING EFFORT TO MAINTAIN AND IMPROVE THE QUALITY OF TEXAS' SURFACE WATERS." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0101

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	02/27/72-07/17/74	11	72.	72.909	86.	52.	108.091	10.397	53.6	70.	83.	85.6
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/27/72-07/17/74	11	54768.	53928.727	83664.	8120.	526520965.818	22946.045	11502.4	42400.	73472.	81849.6
00300	OXYGEN, DISSOLVED MG/L	02/27/72-07/17/74	11	8.	7.991	11.7	4.9	3.545	1.883	5.06	7.3	8.5	11.44
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	02/27/72-07/17/74	11	101.	105.727	148.	80.	398.018	19.95	81.6	90.	123.	143.4
00400	PH (STANDARD UNITS)	02/27/72-07/17/74	11	8.6	8.485	8.7	8.	0.076	0.275	8.016	8.2	8.7	8.7
00400	CONVERTED PH (STANDARD UNITS)	02/27/72-07/17/74	11	8.6	8.397	8.7	8.	0.084	0.29	8.016	8.2	8.7	8.7
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/27/72-07/17/74	11	0.003	0.004	0.01	0.002	0.	0.003	0.002	0.002	0.006	0.01
00612	AMMONIA, UNIONZED (MG/L AS N)	02/27/72-07/17/74	11 ##	0.05	0.064	0.2	0.05	0.002	0.045	0.05	0.05	0.05	0.17
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/27/72-07/17/74	11 ##	0.015	0.03	0.11	0.015	0.001	0.03	0.015	0.015	0.05	0.098
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	02/27/72-07/17/74	11	0.11	0.128	0.23	0.08	0.002	0.042	0.084	0.1	0.14	0.218
32230	CHLOROPHYLL A (MG/L)	02/27/72-07/17/74	11	0.018	0.02	0.06	0.002	0.	0.017	0.002	0.006	0.027	0.054

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

EPA Water Quality Criteria Analysis for Station: PAIS0101

				Total	Exceed	Prop.	----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	11	0	0.00	5	0	0.00	6	0	0.00						
00400	PH	Marine Chronic	8.5	11	7	0.64	5	4	0.80	6	3	0.50						
		Other-Lo Lim.	6.5	11	0	0.00	5	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

EPA Water Quality Criteria Analysis for Station: PAIS0101

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	5/01-10/31 Obs	5/01-10/31 Exceed	5/01-10/31 Prop.	11/01-4/30 Obs	11/01-4/30 Exceed	11/01-4/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.

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

Station Inventory for Station: PAIS0102

NPS Station ID: PAIS0102 | LAT/LON: 27.277588/ -97.409503 | Agency: 11NPSWRD | Date Created: 04/17/99
Location: LIGHT 121 ON INTRACOASTAL WATERWAY | FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY | STORET Station ID(s): PAIS_ICW_121
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 12110207 | Depth of Water: 0 | Aquifer:
Major Basin: WESTERN GULF | Elevation: 0 | Water Body Id:
Minor Basin: NUECES RIVER | ECO Region:
RF1 Index: 12110207 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: 12110208252000.00 | RF3 Mile Point: 0.00 | Distance from RF3: 0.29 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE POINT OF ROCKS TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT BEACON LIGHT 121 ON THE INTRACOASTAL WATERWAY. DATA ARE FROM A REPORT BY JIM BOWMAN OF THE TEXAS WATER QUALITY BOARD; "DOMESTIC WASTE IN LAGUNA MADRE FROM HOUSES ON SPOIL ISLAND;" JULY 1972. THE PURPOSE OF THIS REPORT WAS TO INVESTIGATE "THE POLLUTION OF THE LAGUNA MADRE FROM DOMESTIC WASTE COMING FROM A NUMBER OF "SQUATTER" CABINS LOCATED ON SPOIL ISLANDS IN THE LAGUNA MADRE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0102

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/07/72-07/07/72	1	2.	2.	2.	2.	0.	0.	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	07/07/72-07/07/72	1	0.301	0.301	0.301	0.301	0.	0.	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			2.								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/07/72-07/07/72	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/07/72-07/07/72	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			1.								

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

EPA Water Quality Criteria Analysis for Station: PAIS0102

							5/01-10/31			11/01-4/30			n/a			n/a		
Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	1	0	0.00	1	0	0.00									
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: PAIS0103

NPS Station ID: PAIS0103
LAT/LON: 27.283337/ -97.408338
Agency: 21TEXWR
Date Created: 01/29/79
Location: INTRACOSTAL MKR C121
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY^
STORET Station ID(s): 24929906
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110203
Depth of Water: 999
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: RIO GRANDE LOWER BELOW PECOS RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 14.00
On/Off RF1:
RF3 Index: 12110205069700.00
RF3 Mile Point: 0.00
Distance from RF3: 0.82
On/Off RF3:
Description:
DATA FROM TEXAS DEPARTMENT OF WATER RESOURCES SAMPLES ANALYZED FOR TOXICS
SAMPLE TAKEN FROM BAFFIN BAY AT INTRACOSTAL MARKER C121

^ - The Texas Department of Water Resources originally entered this station in STORET as a "Lake" type. The station's Lat/Lon, Location, and Description indicate that "Estury" is a more appropriate classification.

Parameter Inventory for Station: PAIS0103

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01002	ARSENIC, TOTAL (UG/L AS AS)	09/30/70-09/30/70	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	09/30/70-09/30/70	1	200.	200.	200.	200.	0.	0.	**	**	**	**
01022	BORON, TOTAL (UG/L AS B)	09/30/70-09/30/70	1	3200.	3200.	3200.	3200.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	09/30/70-09/30/74	2 ##	7.5	7.5	10.	5.	12.5	3.536	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	09/30/70-09/30/70	1	1000.	1000.	1000.	1000.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	09/30/70-09/30/74	2	210.	210.	400.	20.	72200.	268.701	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	09/30/70-09/30/74	2 ##	27.5	27.5	50.	5.	1012.5	31.82	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	09/30/70-09/30/70	1	100.	100.	100.	100.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	09/30/70-09/30/70	1	100.	100.	100.	100.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	09/30/70-09/30/70	1	50.	50.	50.	50.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	09/30/70-09/30/74	2	50.15	50.15	100.	0.3	4970.045	70.499	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	09/30/74-09/30/74	1	58.	58.	58.	58.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	09/30/70-09/30/70	1	15.	15.	15.	15.	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	09/30/70-09/30/74	2	1.	1.	1.	1.	0.	0.	**	**	**	**
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	09/30/74-09/30/74	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: PAIS0103

						----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------n/a----------		
Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
01002 ARSENIC, TOTAL	Marine Acute	69.	1	0	0.00	1	0	0.00									
01027 CADMIUM, TOTAL	Marine Acute	43.	2	0	0.00	2	0	0.00									
01042 COPPER, TOTAL	Marine Acute	2.9	2	2	1.00	2	2	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: PAIS0103

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------5/01-10/31---------- Obs	Exceed	Prop.	----------11/01-4/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
01051	LEAD, TOTAL	Marine Acute	220.	2	0	0.00	2	0	0.00									
01067	NICKEL, TOTAL	Marine Acute	75.	1	1	1.00	1	1	1.00									
01077	SILVER, TOTAL	Marine Acute	0.12	1	1	1.00	1	1	1.00									
01092	ZINC, TOTAL	Marine Acute	95.	2	1	0.50	2	1	0.50									
01147	SELENIUM, TOTAL	Marine Acute	300.	1	0	0.00	1	0	0.00									
71900	MERCURY, TOTAL	Marine Acute	2.1	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: PAIS0104

NPS Station ID: PAIS0104
LAT/LON: 27.283337/ -97.458338
Agency: 21TEXWR
Date Created: 01/29/79
Location: BAFFIN BAY AT MKR 20
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY^
STORET Station ID(s): 24929905
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110205
Depth of Water: 999
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: RIO GRANDE LOWER BELOW PECOS RIVER
ECO Region:
RF1 Index: 12110205
RF1 Mile Point: 0.000
Distance from RF1: 7.10
On/Off RF1:
RF3 Index: 12110205010500.00
RF3 Mile Point: 0.00
Distance from RF3: 0.76
On/Off RF3:
Description:
DATA FROM TEXAS DEPARTMENT OF WATER RESOURCES
SAMPLES ANALYZED FOR TOXICS
SAMPLE TAKEN FROM BAFFIN BAY AT MARKER 20

^ - The Texas Department of Water Resources originally entered this station in STORET as a "Lake" type. The station's Lat/Lon, Location, and Description indicate that "Estury" is a more appropriate classification.

Parameter Inventory for Station: PAIS0104

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01002	ARSENIC, TOTAL (UG/L AS AS)	09/30/70-09/30/70	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	09/30/70-09/30/70	1	500.	500.	500.	500.	0.	0.	**	**	**	**
01022	BORON, TOTAL (UG/L AS B)	09/30/70-09/30/70	1	3800.	3800.	3800.	3800.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	09/30/70-09/30/74	2 ##	7.5	7.5	10.	5.	12.5	3.536	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	09/30/70-09/30/70	1	1000.	1000.	1000.	1000.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	09/30/70-09/30/70	1	400.	400.	400.	400.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	09/30/70-09/30/74	2 ##	27.5	27.5	50.	5.	1012.5	31.82	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	09/30/70-09/30/70	1	500.	500.	500.	500.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	09/30/70-09/30/70	1	100.	100.	100.	100.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	09/30/70-09/30/70	1	50.	50.	50.	50.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	09/30/70-09/30/70	1	100.	100.	100.	100.	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	09/30/70-09/30/74	2	1.	1.	1.	1.	0.	0.	**	**	**	**
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	09/30/74-09/30/74	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: PAIS0104

				Total	Exceed	Prop.	----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
01002	ARSENIC, TOTAL	Marine Acute	69.	1	0	0.00	1	0	0.00									
01027	CADMIUM, TOTAL	Marine Acute	43.	2	0	0.00	2	0	0.00									
01042	COPPER, TOTAL	Marine Acute	2.9	1	1	1.00	1	1	1.00									
01051	LEAD, TOTAL	Marine Acute	220.	2	0	0.00	2	0	0.00									

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

EPA Water Quality Criteria Analysis for Station: PAIS0104

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------5/01-10/31---------- Obs	Exceed	Prop.	----------11/01-4/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
01067	NICKEL, TOTAL	Marine Acute	75.	1	1	1.00	1	1	1.00									
01077	SILVER, TOTAL	Marine Acute	0.12	1	1	1.00	1	1	1.00									
01092	ZINC, TOTAL	Marine Acute	95.	1	1	1.00	1	1	1.00									
71900	MERCURY, TOTAL	Marine Acute	2.1	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: PAIS0105

NPS Station ID: PAIS0105
LAT/LON: 27.288281/ -97.391892
Agency: 11NPSWRD
Date Created: 06/12/99
Location: STATION 101B IN THE LAGUNA MADRE
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SMEV_101B
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE POINT OF ROCKS TEXAS 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 101B IN THE LAGUNA MADRE. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0105

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/06/75-11/06/75	1	24.8	24.8	24.8	24.8	0.	0.	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	11/06/75-11/06/75	1	38.1	38.1	38.1	38.1	0.	0.	**	**	**	**

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

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

Station Inventory for Station: PAIS0106

NPS Station ID: PAIS0106 | LAT/LON: 27.288531/ -97.407198 | Agency: 11NPSWRD | Date Created: 04/17/99
Location: LIGHT 115 ON INTRACOASTAL WATERWAY | FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY | STORET Station ID(s): PAIS_ICW_115
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 12110203 | Depth of Water: 0 | Aquifer:
Major Basin: WESTERN GULF | Elevation: 0 | Water Body Id:
Minor Basin: NUECES RIVER | ECO Region:
RF1 Index: 12110203 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: 12110208252000.00 | RF3 Mile Point: 0.00 | Distance from RF3: 0.29 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE POINT OF ROCKS TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT BEACON LIGHT 115 ON THE INTRACOASTAL WATERWAY. DATA ARE FROM A REPORT BY JIM BOWMAN OF THE TEXAS WATER QUALITY BOARD; "DOMESTIC WASTE IN LAGUNA MADRE FROM HOUSES ON SPOIL ISLAND;" JULY 1972. THE PURPOSE OF THIS REPORT WAS TO INVESTIGATE "THE POLLUTION OF THE LAGUNA MADRE FROM DOMESTIC WASTE COMING FROM A NUMBER OF "SQUATTER" CABINS LOCATED ON SPOIL ISLANDS IN THE LAGUNA MADRE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0106

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/07/72-07/07/72	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	07/07/72-07/07/72	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			1.								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/07/72-07/07/72	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/07/72-07/07/72	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			1.								

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

EPA Water Quality Criteria Analysis for Station: PAIS0106

						----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	1	0	0.00	1	0	0.00									
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: PAIS0107

NPS Station ID: PAIS0107 LAT/LON: 27.288531/ -97.407281 Agency: 11NPSWRD Date Created: 06/12/99
Location: BEACON 115 ON THE INTRACOASTAL WATERWAY FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): PAIS_SMEV_115
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110203 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110203 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE POINT OF ROCKS TEXAS 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT BEACON 115 ON THE INTRACOASTAL WATERWAY. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0107

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/06/75-01/14/76	3	18.7	19.667	24.3	16.	17.923	4.234	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	11/06/75-01/14/76	3	38.3	37.733	38.8	36.1	2.063	1.436	**	**	**	**

** - Less than 9 observations ## - 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: PAIS0108

NPS Station ID: PAIS0108
LAT/LON: 27.301642/ -97.389143
Agency: 11NPSWRD
Date Created: 06/12/99
Location: STATION 101A IN THE LAGUNA MADRE
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SMEV_101A
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE POINT OF ROCKS TEXAS 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 101A IN THE LAGUNA MADRE. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0108

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/06/75-11/06/75	1	25.5	25.5	25.5	25.5	0.	0.	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	11/06/75-11/06/75	1	37.5	37.5	37.5	37.5	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: PAIS0109

NPS Station ID: PAIS0109 LAT/LON: 27.310976/ -97.402309 Agency: 11NPSWRD Date Created: 06/12/99
Location: BEACON 103 ON THE INTRACOASTAL WATERWAY FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): PAIS_SMEV_103
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110203 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110203 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE POINT OF ROCKS TEXAS 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT BEACON 103 ON THE INTRACOASTAL WATERWAY. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0109

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/11/75-01/14/76	2	17.3	17.3	18.6	16.	3.38	1.838	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	12/11/75-01/14/76	2	36.6	36.6	38.5	34.7	7.22	2.687	**	**	**	**

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

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

Station Inventory for Station: PAIS0110

NPS Station ID: PAIS0110 | LAT/LON: 27.311031/ -97.402366 | Agency: 11NPSWRD | Date Created: 04/17/99
Location: LIGHT 103 ON INTRACOASTAL WATERWAY | FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY | STORET Station ID(s): PAIS_ICW_103
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 12110203 | Depth of Water: 0 | Aquifer:
Major Basin: WESTERN GULF | Elevation: 0 | Water Body Id:
Minor Basin: NUECES RIVER | ECO Region:
RF1 Index: 12110203 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: 12110208252000.00 | RF3 Mile Point: 0.00 | Distance from RF3: 0.29 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE POINT OF ROCKS TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT BEACON LIGHT 103 ON THE INTRACOASTAL WATERWAY. DATA ARE FROM A REPORT BY JIM BOWMAN OF THE TEXAS WATER QUALITY BOARD; "DOMESTIC WASTE IN LAGUNA MADRE FROM HOUSES ON SPOIL ISLAND;" JULY 1972. THE PURPOSE OF THIS REPORT WAS TO INVESTIGATE "THE POLLUTION OF THE LAGUNA MADRE FROM DOMESTIC WASTE COMING FROM A NUMBER OF "SQUATTER" CABINS LOCATED ON SPOIL ISLANDS IN THE LAGUNA MADRE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0110

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/07/72-07/07/72	1	2.	2.	2.	2.	0.	0.	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	07/07/72-07/07/72	1	0.301	0.301	0.301	0.301	0.	0.	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			2.								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/07/72-07/07/72	1	2.	2.	2.	2.	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/07/72-07/07/72	1	0.301	0.301	0.301	0.301	0.	0.	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			2.								

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

EPA Water Quality Criteria Analysis for Station: PAIS0110

						----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	1	0	0.00	1	0	0.00									
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: PAIS0111

NPS Station ID: PAIS0111 LAT/LON: 27.317615/ -97.399366 Agency: 11NPSWRD Date Created: 06/12/99
Location: MARKER 101 ON THE INTRACOASTAL WATERWAY FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): PAIS_SMEV_101
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110203 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110203 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE POINT OF ROCKS TEXAS 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT MARKER 101 ON THE INTRACOASTAL WATERWAY. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0111

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/06/75-11/06/75	1	24.8	24.8	24.8	24.8	0.	0.	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	11/06/75-11/06/75	1	37.8	37.8	37.8	37.8	0.	0.	**	**	**	**

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

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

Station Inventory for Station: PAIS0112

NPS Station ID: PAIS0112
LAT/LON: 27.322142/ -97.409559
Agency: 11NPSWRD
Date Created: 04/17/99
Location: STATION 32 UPPER LAGUNA MADRE
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_BBB_32
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE POINT OF ROCKS TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 32 IN UPPER LAGUNA MADRE. DATA ARE FROM A REPORT BY B. B. BAKER OF THE TEXAS GAME AND FISH COMMISSION; "COMPILATION OF SALINITY DATA FROM THE LAGUNA MADRE;" 1949. THE ORIGINAL REPORT WAS NOT LOCATED; BUT DATA WERE REFERENCED FROM A REPORT BY ERNEST G. SIMMONS; "AN ECOLOGICAL SURVEY OF THE UPPER LAGUNA MADRE." SALINITY DATA IS THE AVERAGE FOR THE MONTH. DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0112

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: PAIS0113

NPS Station ID: PAIS0113 | LAT/LON: 27.322142/ -97.409559 | Agency: 11NPSWRD | Date Created: 04/17/99
Location: STATION 32 UPPER LAGUNA MADRE | FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY | STORET Station ID(s): PAIS_SIMM_32
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 12110203 | Depth of Water: 0 | Aquifer:
Major Basin: WESTERN GULF | Elevation: 0 | Water Body Id:
Minor Basin: NUECES RIVER | ECO Region:
RF1 Index: 12110203 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: 12110208252000.00 | RF3 Mile Point: 0.00 | Distance from RF3: 0.29 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE POINT OF ROCKS TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 32 IN THE UPPER LAGUNA MADRE. DATA ARE FROM A REPORT BY ERNEST G. SIMMONS OF THE TEXAS GAME AND FISH COMMISSION; "AN ECOLOGICAL SURVEY OF THE UPPER LAGUNA MADRE OF TEXAS." THE PURPOSE OF THIS REPORT WAS TO EXAMINE "PLANT LIFE; INVERTEBRATES AND VERTEBRATES OF THE AREA AND THE RELATIONSHIP OF THESE TO BASIC PHYSICAL AND BIOLOGICAL FACTORS IN THE ENVIRONMENT." THE DAY WAS ASSUMED TO BE THE 15TH OF EACH MONTH. DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0113

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/15/71-11/15/71	9	27.	26.278	31.	21.	13.257	3.641	21.	22.25	29.25	31.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/15/71-11/15/71	9	60.	54.889	70.	25.	226.111	15.037	25.	44.5	67.5	70.
00300	OXYGEN, DISSOLVED MG/L	01/15/71-11/15/71	9	7.	7.556	9.	6.	1.028	1.014	6.	7.	8.5	9.
00400	PH (STANDARD UNITS)	01/15/71-11/15/71	9	8.2	8.267	8.5	8.1	0.015	0.122	8.1	8.2	8.35	8.5
00400	CONVERTED PH (STANDARD UNITS)	01/15/71-11/15/71	9	8.2	8.252	8.5	8.1	0.015	0.123	8.1	8.2	8.35	8.5
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/15/71-11/15/71	9	0.006	0.006	0.008	0.003	0.	0.001	0.003	0.004	0.006	0.008
00480	SALINITY - PARTS PER THOUSAND	01/15/71-11/15/71	9	47.1	38.622	52.1	16.1	244.292	15.63	16.1	18.85	49.9	52.1

** - 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: PAIS0113

						----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	9	6	0.67	5	4	0.80	4	2	0.50						
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	9	0	0.00	5	0	0.00	4	0	0.00						
00400	PH	Marine Chronic	8.5	9	1	0.11	5	1	0.20	4	0	0.00						
		Other-Lo Lim.	6.5	9	0	0.00	5	0	0.00	4	0	0.00						

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

Station Inventory for Station: PAIS0114

NPS Station ID: PAIS0114
LAT/LON: 27.322142/ -97.409559
Agency: 11NPSWRD
Date Created: 04/17/99
Location: STATION 32 UPPER LAGUNA MADRE
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SIM2_32
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE POINT OF ROCKS TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 32 IN THE UPPER LAGUNA MADRE. DATA ARE FROM A REPORT BY ERNEST G. SIMMONS OF THE TEXAS GAME AND FISH COMMISSION; "AN ECOLOGICAL SURVEY OF THE UPPER LAGUNA MADRE OF TEXAS." THE PURPOSE OF THIS REPORT WAS TO EXAMINE "PLANT LIFE; INVERTEBRATES AND VERTEBRATES OF THE AREA AND THE RELATIONSHIP OF THESE TO BASIC PHYSICAL AND BIOLOGICAL FACTORS IN THE ENVIRONMENT." SALINITY DATA IS THE AVERAGE FOR THE MONTH. DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0114

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: PAIS0115

NPS Station ID: PAIS0115 | LAT/LON: 27.338337/ -97.390392 | Agency: 11NPSWRD | Date Created: 04/17/99
Location: LIGHT 95 ON INTRACOASTAL WATERWAY | FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY | STORET Station ID(s): PAIS_ICW_95
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 12110203 | Depth of Water: 0 | Aquifer:
Major Basin: WESTERN GULF | Elevation: 0 | Water Body Id:
Minor Basin: NUECES RIVER | ECO Region:
RF1 Index: 12110203 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: 12110208252000.00 | RF3 Mile Point: 0.00 | Distance from RF3: 0.29 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE POINT OF ROCKS TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT BEACON LIGHT 95 ON THE INTRACOASTAL WATERWAY. DATA ARE FROM A REPORT BY JIM BOWMAN OF THE TEXAS WATER QUALITY BOARD; "DOMESTIC WASTE IN LAGUNA MADRE FROM HOUSES ON SPOIL ISLAND;" JULY 1972. THE PURPOSE OF THIS REPORT WAS TO INVESTIGATE "THE POLLUTION OF THE LAGUNA MADRE FROM DOMESTIC WASTE COMING FROM A NUMBER OF "SQUATTER" CABINS LOCATED ON SPOIL ISLANDS IN THE LAGUNA MADRE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516).

Parameter Inventory for Station: PAIS0115

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/07/72-07/07/72	1	2.	2.	2.	2.	0.	0.	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	07/07/72-07/07/72	1	0.301	0.301	0.301	0.301	0.	0.	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			2.								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/07/72-07/07/72	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/07/72-07/07/72	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			1.								

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

EPA Water Quality Criteria Analysis for Station: PAIS0115

						----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	1	0	0.00	1	0	0.00									
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: PAIS0116

NPS Station ID: PAIS0116 LAT/LON: 27.338337/ -97.390699 Agency: 11NPSWRD Date Created: 06/12/99
Location: BEACON 95 ON THE INTRACOASTAL WATERWAY FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): PAIS_SMEV_95
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110203 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110203 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE POINT OF ROCKS TEXAS 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT BEACON 95 ON THE INTRACOASTAL WATERWAY. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0116

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/11/75-01/14/76	2	16.85	16.85	18.1	15.6	3.125	1.768	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	12/11/75-01/14/76	2	36.5	36.5	38.8	34.2	10.58	3.253	**	**	**	**

** - Less than 9 observations ## - 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: PAIS0117

NPS Station ID: PAIS0117
LAT/LON: 27.339448/ -97.381892
Agency: 11NPSWRD
Date Created: 02/20/99
Location: UPPER LAGUNA MADRE TRANSECT 5 SITE 1
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_TWDB_05-1
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE POINT OF ROCKS TEXAS 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS INSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT TRANSECT 5 SITE 1 IN THE UPPER LAGUNA MADRE. DATA ARE FROM A SERIES OF YEARLY REPORTS (NUMBERS 117; 144; 171; AND 191) BY D. C. HAHL AND KARL W. RATZLAFF OF THE U.S. GEOLOGICAL SURVEY FOR THE TEXAS WATER DEVELOPMENT BOARD. THE REPORTS ARE TITLED "CHEMICAL AND PHYSICAL CHARACTERISTICS OF WATER IN ESTUARIES OF TEXAS SEPTEMBER 1967-SEPTEMBER 1968; OCTOBER 1968-SEPTEMBER 1969; OCTOBER 1969-SEPTEMBER 1970; AND OCTOBER 1970-SEPTEMBER 1971" AND WERE PUBLISHED IN MAY 1970; APRIL 1972; JUNE 1973; AND MAY 1975 RESPECTIVELY. THE PURPOSE OF THESE REPORTS WAS TO CREATE "A LONG-TERM RECORD OF THE CHEMICAL; PHYSICAL; AND HYDRAULIC CHARACTERISTICS OF THE TEXAS ESTUARINE SYSTEMS." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0117

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/27/68-09/16/69	4	2.	2.25	4.	1.	2.25	1.5	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/27/68-09/16/69	4	30.35	30.375	31.1	29.7	0.609	0.78	**	**	**	**
00078	TRANSPARENCY, SECCHI DISC (METERS)	09/16/69-09/16/69	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/27/68-09/16/69	4	63500.	63500.	75000.	52000.	176333333.333	13279.056	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/27/68-09/16/69	4	6.85	6.425	7.4	4.6	1.629	1.276	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/27/68-09/16/69	4	122.	115.25	140.	77.	852.917	29.205	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	09/16/69-09/16/69	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	08/27/68-09/16/69	4	8.45	8.425	8.7	8.1	0.102	0.32	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	08/27/68-09/16/69	4	8.382	8.341	8.7	8.1	0.112	0.335	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/27/68-09/16/69	4	0.004	0.005	0.008	0.002	0.	0.003	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/16/69-09/16/69	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/16/69-09/16/69	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/16/69-09/16/69	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/16/69-09/16/69	1	4.4	4.4	4.4	4.4	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: PAIS0117

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	5/01-10/31 Obs	5/01-10/31 Exceed	5/01-10/31 Prop.	11/01-4/30 Obs	11/01-4/30 Exceed	11/01-4/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	4	0	0.00	4	0	0.00									
00406	PH, FIELD	Marine Chronic	8.5	4	2	0.50	4	2	0.50									
		Other-Lo Lim.	6.5	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: PAIS0118

NPS Station ID: PAIS0118
LAT/LON: 27.342031/ -97.389642
Agency: 11NPSWRD
Date Created: 02/20/99
Location: UPPER LAGUNA MADRE TRANSECT 5 SITE 2
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_TWDB_05-2
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE POINT OF ROCKS TEXAS 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT TRANSECT 5 SITE 2 IN THE UPPER LAGUNA MADRE. DATA ARE FROM A SERIES OF YEARLY REPORTS (NUMBERS 117; 144; 171; AND 191) BY D. C. HAHL AND KARL W. RATZLAFF OF THE U.S. GEOLOGICAL SURVEY FOR THE TEXAS WATER DEVELOPMENT BOARD. THE REPORTS ARE TITLED "CHEMICAL AND PHYSICAL CHARACTERISTICS OF WATER IN ESTUARIES OF TEXAS SEPTEMBER 1967-SEPTEMBER 1968; OCTOBER 1968-SEPTEMBER 1969; OCTOBER 1969-SEPTEMBER 1970; AND OCTOBER 1970-SEPTEMBER 1971" AND WERE PUBLISHED IN MAY 1970; APRIL 1972; JUNE 1973; AND MAY 1975 RESPECTIVELY. THE PURPOSE OF THESE REPORTS WAS TO CREATE "A LONG-TERM RECORD OF THE CHEMICAL; PHYSICAL; AND HYDRAULIC CHARACTERISTICS OF THE TEXAS ESTUARINE SYSTEMS." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0118

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/27/68-09/16/69	12	7.5	7.417	14.	1.	25.356	5.035	1.	2.	12.25	14.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/27/68-09/16/69	12	29.1	29.042	29.9	28.1	0.548	0.74	28.13	28.225	29.775	29.9
00078	TRANSPARENCY, SECCHI DISC (METERS)	08/28/68-09/16/69	2	0.705	0.705	1.36	0.05	0.858	0.926	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/27/68-09/16/69	12	52000.	59083.333	75000.	52000.	107174242.424	10352.499	52000.	52000.	71000.	75000.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/27/68-08/27/68	1	54800.	54800.	54800.	54800.	0.	0.	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/27/68-09/16/69	12	5.05	5.3	6.9	3.8	0.731	0.855	4.07	4.75	5.975	6.75
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/27/68-09/16/69	12	83.5	88.75	130.	67.	354.568	18.83	68.8	74.	97.75	125.8
00310	BOD, 5 DAY, 20 DEG C MG/L	08/27/68-09/16/69	4	5.15	4.95	8.	1.5	12.51	3.537	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	08/27/68-09/16/69	12	8.1	8.242	8.7	8.	0.083	0.287	8.	8.	8.6	8.67
00406	CONVERTED PH, FIELD, STANDARD UNITS	08/27/68-09/16/69	12	8.1	8.169	8.7	8.	0.088	0.297	8.	8.	8.6	8.67
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/27/68-09/16/69	12	0.008	0.007	0.01	0.002	0.	0.003	0.002	0.003	0.01	0.01
00440	BICARBONATE ION (MG/L AS HCO3)	08/27/68-08/27/68	1	152.	152.	152.	152.	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/16/69-09/16/69	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	08/27/68-08/27/68	2	0.08	0.08	0.1	0.06	0.001	0.028	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	08/27/68-08/27/68	2	0.035	0.035	0.05	0.02	0.	0.021	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/16/69-09/16/69	2	0.035	0.035	0.04	0.03	0.	0.007	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/16/69-09/16/69	2	0.035	0.035	0.04	0.03	0.	0.007	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/27/68-08/27/68	1	6830.	6830.	6830.	6830.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/27/68-08/27/68	1	452.	452.	452.	452.	0.	0.	**	**	**	**

** - Less than 9 observations ## - 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: PAIS0118

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/27/68-08/27/68	1	1420.	1420.	1420.	1420.	0.	0.	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	08/27/68-08/27/68	1	11100.	11100.	11100.	11100.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/27/68-08/27/68	1	20000.	20000.	20000.	20000.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/27/68-08/27/68	1	2720.	2720.	2720.	2720.	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/27/68-09/16/69	3	5.7	6.1	7.2	5.4	0.93	0.964	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	08/27/68-08/27/68	2	10.	10.	10.	10.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/27/68-08/27/68	2 ##	5.	5.	10.	0.	50.	7.071	**	**	**	**
01082	STRONTIUM, TOTAL (UG/L AS SR)	08/27/68-08/27/68	2	9500.	9500.	9600.	9400.	20000.	141.421	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	08/27/68-08/27/68	2 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	08/27/68-08/27/68	2	210.	210.	230.	190.	800.	28.284	**	**	**	**
46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	08/27/68-08/27/68	1	6930.	6930.	6930.	6930.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/27/68-08/27/68	1	36.	36.	36.	36.	0.	0.	**	**	**	**
71820	DENSITY (GM/ML AT 20 C)	08/27/68-08/27/68	1	1.024	1.024	1.024	1.024	0.	0.	**	**	**	**
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	08/27/68-08/27/68	2	0.5	0.5	0.7	0.3	0.08	0.283	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/27/68-08/27/68	2	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	08/27/68-08/27/68	2	0.02	0.02	0.03	0.01	0.	0.014	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: PAIS0118

				Total	Exceed	Prop.	----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------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.	12	1	0.08	12	1	0.08									
00406	PH, FIELD	Marine Chronic	8.5	12	4	0.33	12	4	0.33									
		Other-Lo Lim.	6.5	12	0	0.00	12	0	0.00									
01090	ZINC, DISSOLVED	Marine Acute	95.	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: PAIS0119

NPS Station ID: PAIS0119
LAT/LON: 27.351115/ -97.374448
Agency: 112WRD
Date Created: 06/29/78
Location: 1205301LAGUNA MADRE ES LINE 053 SITE 01
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): 272104097222800
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 12110203003
RF1 Mile Point: 54.400
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 12110205078100.00
RF3 Mile Point: 0.00
Distance from RF3: 0.25
On/Off RF3:
Description:

Parameter Inventory for Station: PAIS0119

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/27/68-03/30/82	29	1.	2.552	6.	1.	3.613	1.901	1.	1.	4.5	5.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/27/68-03/30/82	29	25.	25.093	31.1	12.5	29.086	5.393	18.	21.6	29.7	30.2
00070	TURBIDITY, (JACKSON CANDLE UNITS)	10/23/74-10/23/74	2	10.	10.	10.	10.	0.	0.	**	**	**	**
00078	TRANSPARENCY, SECCHI DISC (METERS)	09/16/69-03/30/82	11	0.58	0.624	1.3	0.44	0.057	0.24	0.44	0.48	0.62	1.184
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/27/68-03/30/82	29	52000.	51310.345	75000.	18000.	163275960.591	12777.948	40800.	43600.	58500.	63000.
00300	OXYGEN, DISSOLVED MG/L	08/27/68-03/30/82	29	6.5	7.052	14.4	4.6	5.665	2.38	5.1	5.5	7.4	10.3
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/27/68-03/30/82	29	95.	105.19	236.	73.	1458.015	38.184	74.	86.5	105.45	139.9
00310	BOD, 5 DAY, 20 DEG C MG/L	09/16/69-03/30/82	12	2.75	3.483	7.9	1.4	4.116	2.029	1.52	1.9	5.1	7.36
00400	PH (STANDARD UNITS)	08/27/68-03/30/82	29	8.3	8.293	8.7	7.8	0.059	0.242	8.	8.15	8.4	8.7
00400	CONVERTED PH (STANDARD UNITS)	08/27/68-03/30/82	29	8.3	8.228	8.7	7.8	0.063	0.251	8.	8.15	8.4	8.7
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/27/68-03/30/82	29	0.005	0.006	0.016	0.002	0.	0.004	0.002	0.004	0.007	0.01
00403	PH, LAB, STANDARD UNITS SU	11/18/80-03/30/82	4	8.15	8.15	8.2	8.1	0.003	0.058	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	11/18/80-03/30/82	4	8.147	8.147	8.2	8.1	0.003	0.058	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/18/80-03/30/82	4	0.007	0.007	0.008	0.006	0.	0.001	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	03/01/78-07/16/80	4	1.	1.05	1.5	0.7	0.11	0.332	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/22/77-03/30/82	9	150.	152.111	180.	123.	504.361	22.458	123.	131.	175.	180.
00440	BICARBONATE ION (MG/L AS HCO3)	06/22/77-07/16/80	5	169.	177.8	220.	150.	974.2	31.212	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	06/22/77-07/16/80	5	0.	0.	0.	0.	0.	0.	**	**	**	**
00600	NITROGEN, TOTAL (MG/L AS N)	10/23/74-03/30/82	11	1.2	1.113	1.9	0.	0.246	0.496	0.148	0.9	1.4	1.82
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	10/23/74-03/30/82	12	1.095	1.072	1.9	0.	0.232	0.482	0.213	0.82	1.4	1.78
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/16/69-03/30/82	15	0.03	0.076	0.4	0.	0.011	0.107	0.	0.01	0.08	0.274
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	09/16/69-03/30/82	15	0.01	0.019	0.12	0.	0.001	0.031	0.	0.005	0.01	0.084
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/16/69-03/30/82	14	0.	0.017	0.11	0.	0.001	0.036	0.	0.	0.01	0.1
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/23/74-03/30/82	12	1.25	1.152	2.	0.	0.259	0.509	0.222	0.89	1.4	1.91
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/23/74-03/30/82	12	0.02	0.047	0.23	0.	0.005	0.071	0.	0.01	0.05	0.206
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	04/11/79-04/11/79	1	0.09	0.09	0.09	0.09	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/16/69-09/16/69	1	0.12	0.12	0.12	0.12	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/16/69-03/30/82	15	0.05	0.048	0.12	0.005	0.001	0.029	0.014	0.02	0.06	0.096
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/16/69-09/16/69	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	06/22/77-03/30/82	11	10.	9.191	14.	4.4	8.981	2.997	4.66	6.6	12.	13.6
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/22/77-03/30/82	9	5500.	5911.111	7400.	4900.	856111.111	925.263	4900.	5000.	6700.	7400.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	06/22/77-03/30/82	9	5400.	5755.556	7300.	4700.	877777.778	936.898	4700.	4850.	6500.	7300.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/22/77-03/30/82	9	400.	400.	500.	200.	8000.	89.443	200.	370.	475.	500.
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/22/77-03/30/82	9	1100.	1194.444	1500.	950.	35277.778	187.824	950.	1050.	1350.	1500.
00930	SODIUM, DISSOLVED (MG/L AS NA)	06/22/77-03/30/82	9	9000.	10066.667	12000.	8100.	2707500.	1645.448	8100.	8800.	12000.	12000.
00931	SODIUM ADSORPTION RATIO	06/22/77-03/30/82	9	55.	56.889	65.	50.	28.361	5.326	50.	52.	62.	65.
00932	SODIUM, PERCENT	06/22/77-03/30/82	9	77.	77.444	79.	76.	1.278	1.13	76.	76.5	78.5	79.
00933	SODIUM,PLUS POTASSIUM (MG/L)	04/11/79-10/11/79	2	10600.	10600.	12000.	9200.	3920000.	1979.899	**	**	**	**

** - Less than 9 observations ## - 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: PAIS0119

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00935	POTASSIUM, DISSOLVED (MG/L AS K)	06/22/77-03/30/82	9	380.	371.111	650.	160.	21936.111	148.108	160.	245.	450.	650.
00940	CHLORIDE,TOTAL IN WATER MG/L	06/22/77-03/30/82	9	17000.	18000.	21000.	15000.	5000000.	2236.068	15000.	16000.	20000.	21000.
00945	SULFATE, TOTAL (MG/L AS SO4)	06/22/77-03/30/82	9	2500.	2644.444	3300.	2200.	190277.778	436.208	2200.	2250.	3100.	3300.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	06/22/77-03/30/82	9	0.9	0.933	1.5	0.5	0.083	0.287	0.5	0.75	1.1	1.5
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/16/69-03/30/82	10	4.8	5.78	9.5	2.5	5.6	2.366	2.65	4.	8.375	9.41
01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/23/74-10/23/74	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	10/23/74-10/23/74	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	10/23/74-10/23/74	1	60.	60.	60.	60.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	10/23/74-10/23/74	1	8.	8.	8.	8.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	10/23/74-10/23/74	1	13.	13.	13.	13.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	10/23/74-10/23/74	1	310.	310.	310.	310.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/23/74-10/23/74	1	180.	180.	180.	180.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	10/23/74-10/23/74	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	10/23/74-10/23/74	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/23/74-10/23/74	1	150.	150.	150.	150.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/23/74-10/23/74	1	120.	120.	120.	120.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	10/23/74-10/23/74	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/23/74-10/23/74	1	6300.	6300.	6300.	6300.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	10/23/74-10/23/74	1	60.	60.	60.	60.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	10/23/74-10/23/74	1	70.	70.	70.	70.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/23/74-10/23/74	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/23/74-10/23/74	1	180.	180.	180.	180.	0.	0.	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			1.								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			1.								
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4	GEOMETRIC MEAN =			1.								
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39360	DDD IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39531	MALATHION IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	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: PAIS0119

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39541	PARATHION IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39571	DIAZINON IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39601	METHYL PARATHION IN BOT. DEPOS.(UG/KG DRY SOLIDS)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39731	2,4-D IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39741	2,4,5-T IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39761	SILVEX IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	10/23/74-10/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	06/22/77-03/30/82	8	32950.	33125.	38700.	27000.	22873571.429	4782.632	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	06/22/77-03/30/82	8	44.85	45.05	52.6	36.7	42.414	6.513	**	**	**	**
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	04/11/79-11/18/80	4	0.045	0.058	0.1	0.04	0.001	0.029	**	**	**	**
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	04/11/79-12/15/81	6	0.135	0.125	0.18	0.06	0.002	0.044	**	**	**	**
71887	NITROGEN, TOTAL, AS NO3 - MG/L	10/23/74-03/30/82	11	5.4	4.955	8.5	0.	4.851	2.202	0.66	4.	6.3	8.08
71890	MERCURY, DISSOLVED (UG/L AS HG)	10/23/74-10/23/74	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	10/23/74-10/23/74	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	03/24/81-03/24/81	1	200.	200.	200.	200.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: PAIS0119

				Total	Exceed	Prop.	----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------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.	2	0	0.00	2	0	0.00									
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	29	0	0.00	20	0	0.00	9	0	0.00						
00400	PH	Marine Chronic	8.5	29	6	0.21	20	2	0.10	9	4	0.44						
		Other-Lo Lim.	6.5	29	0	0.00	20	0	0.00	9	0	0.00						
00403	PH, LAB	Marine Chronic	8.5	4	0	0.00				4	0	0.00						
		Other-Lo Lim.	6.5	4	0	0.00				4	0	0.00						
01000	ARSENIC, DISSOLVED	Marine Acute	69.	1	0	0.00	1	0	0.00									
01002	ARSENIC, TOTAL	Marine Acute	69.	1	0	0.00	1	0	0.00									
01025	CADMIUM, DISSOLVED	Marine Acute	43.	1	0	0.00	1	0	0.00									
01027	CADMIUM, TOTAL	Marine Acute	43.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Marine Acute	2.9	1	1	1.00	1	1	1.00									
01042	COPPER, TOTAL	Marine Acute	2.9	1	1	1.00	1	1	1.00									
01049	LEAD, DISSOLVED	Marine Acute	220.	1	0	0.00	1	0	0.00									
01051	LEAD, TOTAL	Marine Acute	220.	1	0	0.00	1	0	0.00									
01065	NICKEL, DISSOLVED	Marine Acute	75.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Marine Acute	95.	1	0	0.00	1	0	0.00									
01092	ZINC, TOTAL	Marine Acute	95.	1	0	0.00	1	0	0.00									
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	1	0	0.00	1	0	0.00									
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	1	0	0.00	1	0	0.00									
39330	ALDRIN IN WHOLE WATER SAMPLE	Marine Acute	1.3	1	0	0.00	1	0	0.00									
39340	GAMMA-BHC(LINDANE), WHOLE WATER	Marine Acute	0.16	1	0	0.00	1	0	0.00									
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATE	Marine Acute	0.09	1	0	0.00	1	0	0.00									
39360	DDD IN WHOLE WATER SAMPLE	Marine Acute	3.6	1	0	0.00	1	0	0.00									
39365	DDE IN WHOLE WATER SAMPLE	Marine Acute	14.	1	0	0.00	1	0	0.00									
39370	DDT IN WHOLE WATER SAMPLE	Marine Acute	0.13	1	0	0.00	1	0	0.00									
39380	DIELDRIN IN WHOLE WATER SAMPLE	Marine Acute	0.71	1	0	0.00	1	0	0.00									
39390	ENDRIN IN WHOLE WATER SAMPLE	Marine Acute	0.037	1	0	0.00	1	0	0.00									
39400	TOXAPHENE IN WHOLE WATER SAMPLE	Marine Acute	0.21	1	0	0.00	1	0	0.00									
39410	HEPTACHLOR IN WHOLE WATER SAMPLE	Marine Acute	0.053	1	0	0.00	1	0	0.00									
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE	Marine Acute	0.053	1	0	0.00	1	0	0.00									
71890	MERCURY, DISSOLVED	Marine Acute	2.1	1	0	0.00	1	0	0.00									
71900	MERCURY, TOTAL	Marine Acute	2.1	1	0	0.00	1	0	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: 5/01 to 10/31 - Station PAIS0119

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/27/68-03/30/82	20	1.5	2.7	6.	1.	3.8	1.949	1.	1.	4.75	5.9
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/27/68-03/30/82	20	29.4	27.835	31.1	22.2	9.943	3.153	22.64	24.35	30.	30.92
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/27/68-03/30/82	20	53500.	52715.	75000.	18000.	216492921.053	14713.698	20350.	51000.	62000.	73800.
00300	OXYGEN, DISSOLVED MG/L	08/27/68-03/30/82	20	5.85	7.075	14.4	4.6	8.014	2.831	4.83	5.325	7.35	13.45
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/27/68-03/30/82	20	95.	111.375	236.	74.	1967.402	44.355	77.1	85.75	123.9	213.79
00400	PH (STANDARD UNITS)	08/27/68-03/30/82	20	8.3	8.285	8.7	7.8	0.051	0.225	7.83	8.2	8.4	8.67
00400	CONVERTED PH (STANDARD UNITS)	08/27/68-03/30/82	20	8.3	8.225	8.7	7.8	0.055	0.234	7.83	8.2	8.4	8.67
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/27/68-03/30/82	20	0.005	0.006	0.016	0.002	0.	0.004	0.002	0.004	0.006	0.015

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

Seasonal Analysis for Season #2: 11/01 to 4/30 - Station PAIS0119

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/27/68-03/30/82	9	1.	2.222	5.	1.	3.444	1.856	1.	1.	4.5	5.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/27/68-03/30/82	9	18.5	19.	25.	12.5	17.625	4.198	12.5	16.25	23.	25.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/27/68-03/30/82	9	45800.	48188.889	56000.	40800.	41401111.111	6434.37	40800.	41950.	54500.	56000.
00300	OXYGEN, DISSOLVED MG/L	08/27/68-03/30/82	9	6.9	7.	8.6	6.	0.79	0.889	6.	6.2	7.7	8.6
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/27/68-03/30/82	9	95.	91.444	103.	73.	122.278	11.058	73.	82.	100.5	103.
00400	PH (STANDARD UNITS)	08/27/68-03/30/82	9	8.2	8.311	8.7	8.	0.084	0.289	8.	8.05	8.6	8.7
00400	CONVERTED PH (STANDARD UNITS)	08/27/68-03/30/82	9	8.2	8.234	8.7	8.	0.09	0.301	8.	8.05	8.6	8.7
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/27/68-03/30/82	9	0.006	0.006	0.01	0.002	0.	0.003	0.002	0.003	0.009	0.01

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

Station Inventory for Station: PAIS0120

NPS Station ID: PAIS0120 LAT/LON: 27.353948/ -97.384253 Agency: 11NPSWRD Date Created: 04/17/99
Location: LIGHT 91 ON THE INTRACOASTAL WATERWAY FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): PAIS_CONO_91
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110203 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110203 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE POINT OF ROCKS TEXAS 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT LIGHT 91 ON THE INTRACOASTAL WATERWAY. DATA WERE COLLECTED ALONG A TRANSECT PERPENDICULAR TO THE WATERWAY AND AVERAGED FOR THE MONTH. DATA ARE FROM A REPORT BY JOHN T. CONOVER; "THE ECOLOGY; SEASONAL PERIODICITY; AND DISTRIBUTION OF BENTHIC PLANTS IN SOME TEXAS LAGOONS;" OCTOBER 1963. THE PURPOSE OF THIS REPORT WAS TO "STUDY THE LOCAL EFFECTS OF LIGHT; TEMPERATURE; AND SALINITY ON THE SEASONAL GROWTH OF PLANTS." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0120

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: PAIS0121

NPS Station ID: PAIS0121
LAT/LON: 27.354448/ -97.383893
Agency: 112WRD
Date Created: 05/19/79
Location: 1205302LAGUNA MADRE ES LINE 053 SITE 02
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): 272116097230200
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 12110203001
RF1 Mile Point: 26.480
Distance from RF1: 7.20
On/Off RF1: ON
RF3 Index: 12110203000300.00
RF3 Mile Point: 30.77
Distance from RF3: 0.40
On/Off RF3:
Description:

Parameter Inventory for Station: PAIS0121

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/27/68-03/30/82	77	6.	7.247	16.	1.	26.978	5.194	1.	1.	12.5	15.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/27/68-03/30/82	77	24.4	23.34	29.9	8.	33.171	5.759	14.5	19.2	28.6	29.5
00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/24/73-02/11/76	25	22.	51.228	374.9	0.	6566.972	81.037	5.	11.5	50.	171.9
00078	TRANSPARENCY, SECCHI DISC (METERS)	08/28/68-03/30/82	19	0.74	1.093	6.9	0.4	2.043	1.429	0.42	0.57	1.01	1.36
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/27/68-03/30/82	77	52000.	50328.571	75000.	18000.	132836015.038	11525.451	36400.	42500.	58500.	63000.
00300p	OXYGEN, DISSOLVED MG/L	08/27/68-03/30/82	77	6.4	6.486	11.9	3.3	2.91	1.706	4.3	5.2	7.4	8.84
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/27/68-03/30/82	77	89.	91.529	192.	53.	469.158	21.66	67.8	77.5	100.45	113.9
00310	BOD, 5 DAY, 20 DEG C MG/L	08/27/68-02/11/76	15	2.4	3.6	8.	0.9	6.163	2.483	1.14	1.5	6.	8.
00400p	PH (STANDARD UNITS)	08/27/68-03/30/82	77	8.2	8.221	8.7	7.9	0.035	0.187	8.	8.1	8.3	8.5
00400p	CONVERTED PH (STANDARD UNITS)	08/27/68-03/30/82	77	8.2	8.184	8.7	7.9	0.036	0.191	8.	8.1	8.3	8.5
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/27/68-03/30/82	77	0.006	0.007	0.013	0.002	0.	0.003	0.003	0.005	0.008	0.01
00405	CARBON DIOXIDE (MG/L AS CO2)	08/27/68-10/17/73	2	1.45	1.45	1.9	1.	0.405	0.636	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/27/68-02/01/77	3	125.	118.333	146.	84.	994.333	31.533	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/27/68-02/01/77	3	152.	144.	178.	102.	1492.	38.626	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	02/01/77-02/01/77	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00600	NITROGEN, TOTAL (MG/L AS N)	04/24/74-06/22/77	5	0.99	1.002	2.3	0.	0.692	0.832	**	**	**	**
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	04/24/74-06/22/77	5	0.87	0.926	2.2	0.	0.643	0.802	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/27/68-06/22/77	18	0.085	0.119	0.67	0.	0.024	0.155	0.	0.03	0.14	0.301
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/27/68-06/22/77	18	0.003	0.01	0.04	0.	0.	0.013	0.	0.	0.02	0.031
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/27/68-06/22/77	18	0.	0.063	1.	0.	0.055	0.235	0.	0.	0.01	0.19
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/24/74-06/22/77	5	0.98	0.994	2.3	0.	0.694	0.833	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/24/74-06/22/77	5	0.01	0.022	0.05	0.	0.	0.022	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	08/27/68-10/17/73	10	0.075	0.072	0.15	0.	0.003	0.055	0.	0.023	0.12	0.147
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/27/68-06/22/77	18	0.055	0.067	0.22	0.	0.003	0.056	0.	0.04	0.073	0.193
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/27/68-10/17/73	10	0.025	0.024	0.05	0.	0.	0.018	0.	0.008	0.04	0.049
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	02/01/77-02/01/77	1	5.5	5.5	5.5	5.5	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/27/68-02/01/77	3	4000.	4333.333	7000.	2000.	6333333.333	2516.611	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/27/68-02/01/77	3	1900.	3200.	6900.	800.	10570000.	3251.154	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/27/68-02/01/77	3	300.	307.267	451.9	169.9	19920.603	141.14	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/27/68-02/01/77	3	800.	866.633	1420.	379.9	273782.003	523.242	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/27/68-02/01/77	2	9050.	9050.	11100.	7000.	8405000.	2899.138	**	**	**	**
00931	SODIUM ADSORPTION RATIO	08/27/68-02/01/77	2	53.	53.	58.	48.	50.	7.071	**	**	**	**
00932	SODIUM, PERCENT	02/01/77-02/01/77	1	78.	78.	78.	78.	0.	0.	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	10/17/73-10/17/73	1	3300.	3300.	3300.	3300.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	02/01/77-02/01/77	1	280.	280.	280.	280.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/27/68-02/01/77	3	12000.	12600.	20000.	5800.	50680000.	7118.989	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/27/68-02/01/77	3	1600.	1720.	2720.	840.	894400.	945.727	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/17/73-02/01/77	2	0.85	0.85	1.1	0.6	0.125	0.354	**	**	**	**

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

Parameter Inventory for Station: PAIS0121

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/27/68-02/01/77	12	6.95	6.117	8.5	1.2	4.638	2.154	2.04	4.35	7.65	8.38
01000	ARSENIC, DISSOLVED (UG/L AS AS)	09/28/72-10/17/73	2	6.	6.	12.	0.	72.	8.485	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/28/72-10/17/73	2	0.	0.	0.	0.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/28/72-09/28/72	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	10/17/73-10/17/73	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	09/28/72-10/17/73	2	8.	8.	12.	4.	32.	5.657	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	09/28/72-10/17/73	2	15.	15.	30.	0.	450.	21.213	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	09/28/72-10/17/73	2	1.	1.	2.	0.	2.	1.414	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/28/72-10/17/73	2	31.5	31.5	50.	13.	684.5	26.163	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	10/17/73-10/17/73	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	09/28/72-10/17/73	2	5300.	5300.	6800.	3800.	4500000.	2121.32	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	09/28/72-10/17/73	2	221.5	221.5	440.	3.	95484.5	309.006	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	09/28/72-10/17/73	2	125.	125.	180.	70.	6050.	77.782	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	09/28/72-04/24/74	3	26.	22.	39.	1.	373.	19.313	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	09/28/72-04/24/74	3	1.415	1.002	1.591	0.	0.761	0.872	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			10.046								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/28/72-04/24/74	3	1.	2.	4.	1.	3.	1.732	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/28/72-04/24/74	3	0.	0.201	0.602	0.	0.121	0.348	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			1.587								
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	09/28/72-04/24/74	3	20.	18.333	34.	1.	274.333	16.563	**	**	**	**
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	09/28/72-04/24/74	3	1.301	0.944	1.531	0.	0.682	0.826	**	**	**	**
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4	GEOMETRIC MEAN =			8.794								
32230	CHLOROPHYLL A (MG/L)	04/24/74-04/24/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
32231	CHLOROPHYLL B (MG/L)	04/24/74-04/24/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
32232	CHLOROPHYLL C (MG/L)	04/24/74-04/24/74	1	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	05/24/73-05/24/73	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	09/28/72-10/17/73	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/17/73-10/17/73	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	09/28/72-10/17/73	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	10/17/73-10/17/73	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	09/28/72-10/17/73	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	10/17/73-10/17/73	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39360	DDD IN WHOLE WATER SAMPLE (UG/L)	09/28/72-10/17/73	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/17/73-10/17/73	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	09/28/72-10/17/73	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/17/73-10/17/73	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	09/28/72-10/17/73	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/17/73-10/17/73	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	09/28/72-10/17/73	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	10/17/73-10/17/73	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	09/28/72-10/17/73	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/17/73-10/17/73	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	09/28/72-10/17/73	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	10/17/73-10/17/73	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	09/28/72-10/17/73	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	10/17/73-10/17/73	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	09/28/72-10/17/73	2	0.05	0.05	0.1	0.	0.005	0.071	**	**	**	**
39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	10/17/73-10/17/73	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	09/28/72-10/17/73	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	09/28/72-10/17/73	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	09/28/72-10/17/73	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	09/28/72-10/17/73	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	09/28/72-10/17/73	2	0.01	0.01	0.02	0.	0.	0.014	**	**	**	**
39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	09/28/72-10/17/73	2	0.005	0.005	0.01	0.	0.	0.007	**	**	**	**
39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	09/28/72-10/17/73	2	0.005	0.005	0.01	0.	0.	0.007	**	**	**	**
39782	LINDANE IN WHOLE WATER SAMPLE (UG/L)	09/28/72-09/28/72	1	0.	0.	0.	0.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/27/68-02/01/77	3	22100.	22800.	35800.	10500.	160390000.	12664.517	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/27/68-02/01/77	3	30.1	31.033	48.7	14.3	296.493	17.219	**	**	**	**
71887	NITROGEN, TOTAL, AS NO3 - MG/L	04/24/74-06/22/77	5	4.4	4.42	10.	0.	13.042	3.611	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	10/17/73-10/17/73	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

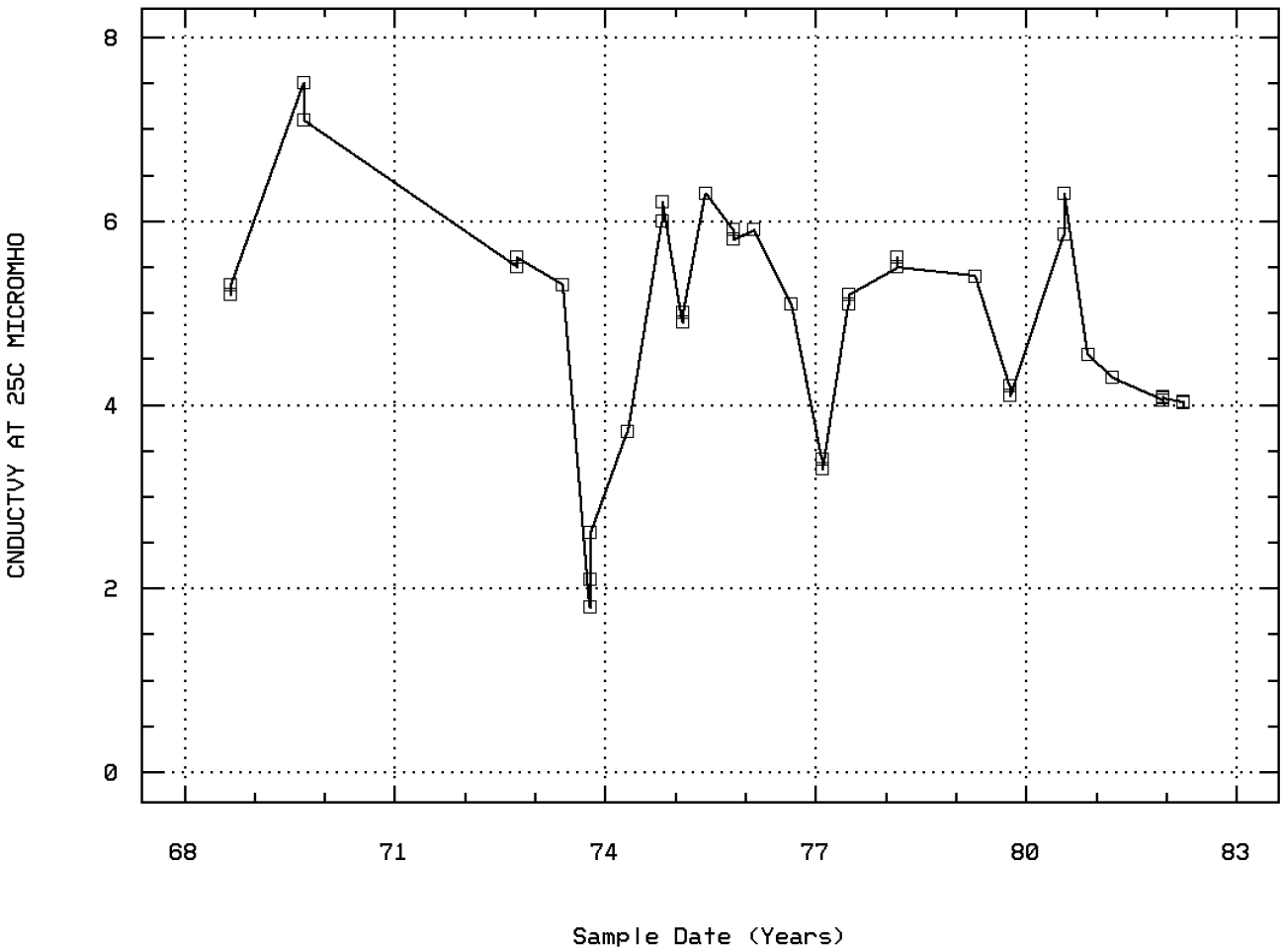
EPA Water Quality Criteria Analysis for Station: PAIS0121

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------5/01-10/31---------- Obs	Exceed	Prop.	----------11/01-4/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	25	7	0.28	15	7	0.47	10	0	0.00						
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	77	5	0.06	47	5	0.11	30	0	0.00						
00400	PH	Marine Chronic	8.5	77	10	0.13	47	5	0.11	30	5	0.17						
		Other-Lo Lim.	6.5	77	0	0.00	47	0	0.00	30	0	0.00						
01000	ARSENIC, DISSOLVED	Marine Acute	69.	2	0	0.00	2	0	0.00									
01025	CADMIUM, DISSOLVED	Marine Acute	43.	2	0	0.00	2	0	0.00									
01040	COPPER, DISSOLVED	Marine Acute	2.9	2	2	1.00	2	2	1.00									
01049	LEAD, DISSOLVED	Marine Acute	220.	2	0	0.00	2	0	0.00									
01065	NICKEL, DISSOLVED	Marine Acute	75.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Marine Acute	95.	2	1	0.50	2	1	0.50									
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	3	0	0.00	2	0	0.00	1	0	0.00						
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	3	0	0.00	2	0	0.00	1	0	0.00						
39330	ALDRIN IN WHOLE WATER SAMPLE	Marine Acute	1.3	2	0	0.00	2	0	0.00									
39340	GAMMA-BHC(LINDANE), WHOLE WATER	Marine Acute	0.16	2	0	0.00	2	0	0.00									
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATE	Marine Acute	0.09	2	0	0.00	2	0	0.00									
39360	DDD IN WHOLE WATER SAMPLE	Marine Acute	3.6	2	0	0.00	2	0	0.00									
39365	DDE IN WHOLE WATER SAMPLE	Marine Acute	14.	2	0	0.00	2	0	0.00									
39370	DDT IN WHOLE WATER SAMPLE	Marine Acute	0.13	2	0	0.00	2	0	0.00									
39380	DIELDRIN IN WHOLE WATER SAMPLE	Marine Acute	0.71	2	0	0.00	2	0	0.00									
39390	ENDRIN IN WHOLE WATER SAMPLE	Marine Acute	0.037	2	0	0.00	2	0	0.00									
39410	HEPTACHLOR IN WHOLE WATER SAMPLE	Marine Acute	0.053	2	0	0.00	2	0	0.00									
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE	Marine Acute	0.053	2	0	0.00	2	0	0.00									
39782	LINDANE IN WHOLE WATER SAMPLE	Marine Acute	0.16	1	0	0.00	1	0	0.00									
71890	MERCURY, DISSOLVED	Marine Acute	2.1	1	0	0.00	1	0	0.00									

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

Station: PAIS0121 Parameter Code: 00095

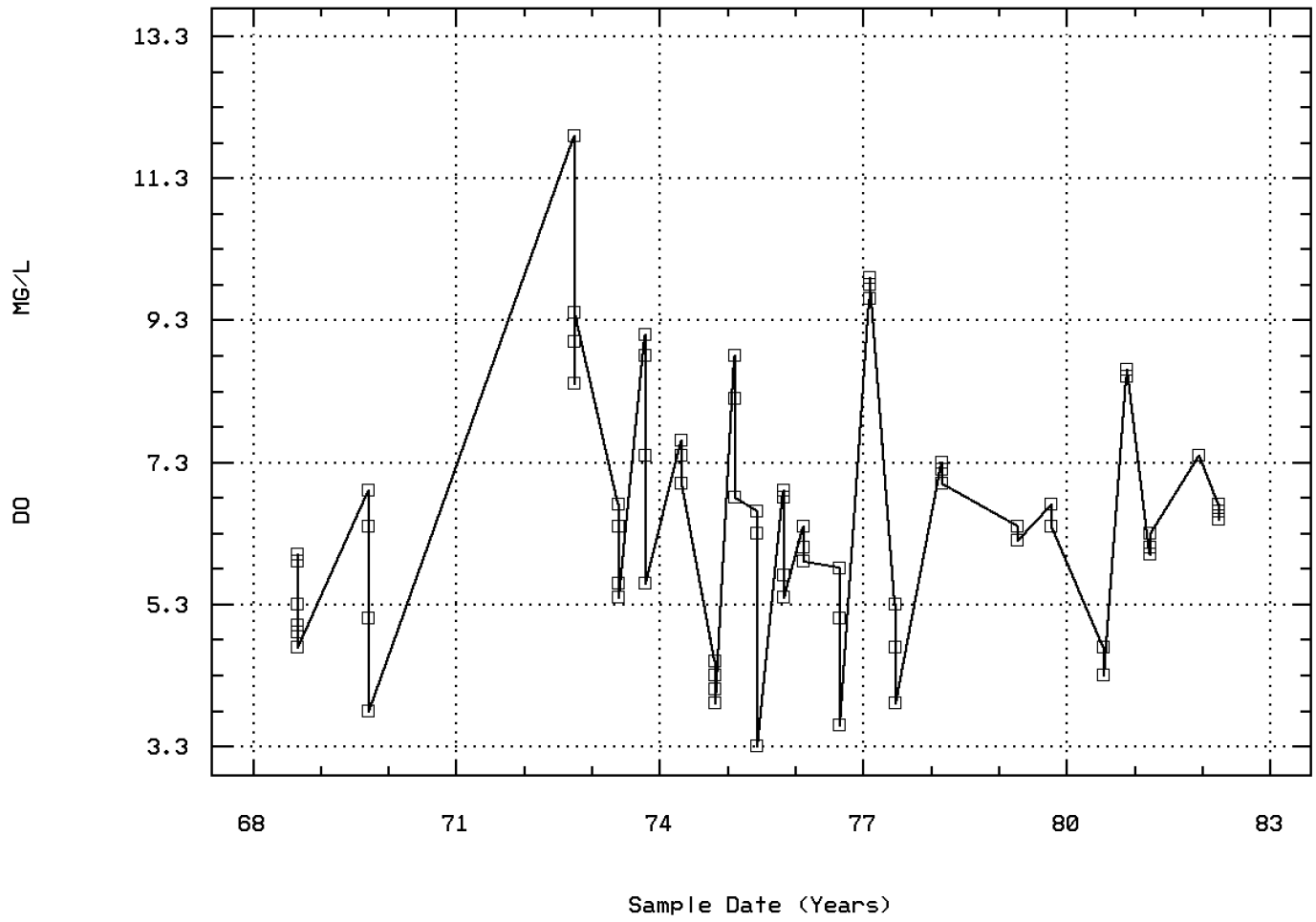
SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)



1205302LAGUNA MADRE ES LINE 053 SITE 02

Station: PAIS0121 Parameter Code: 00300

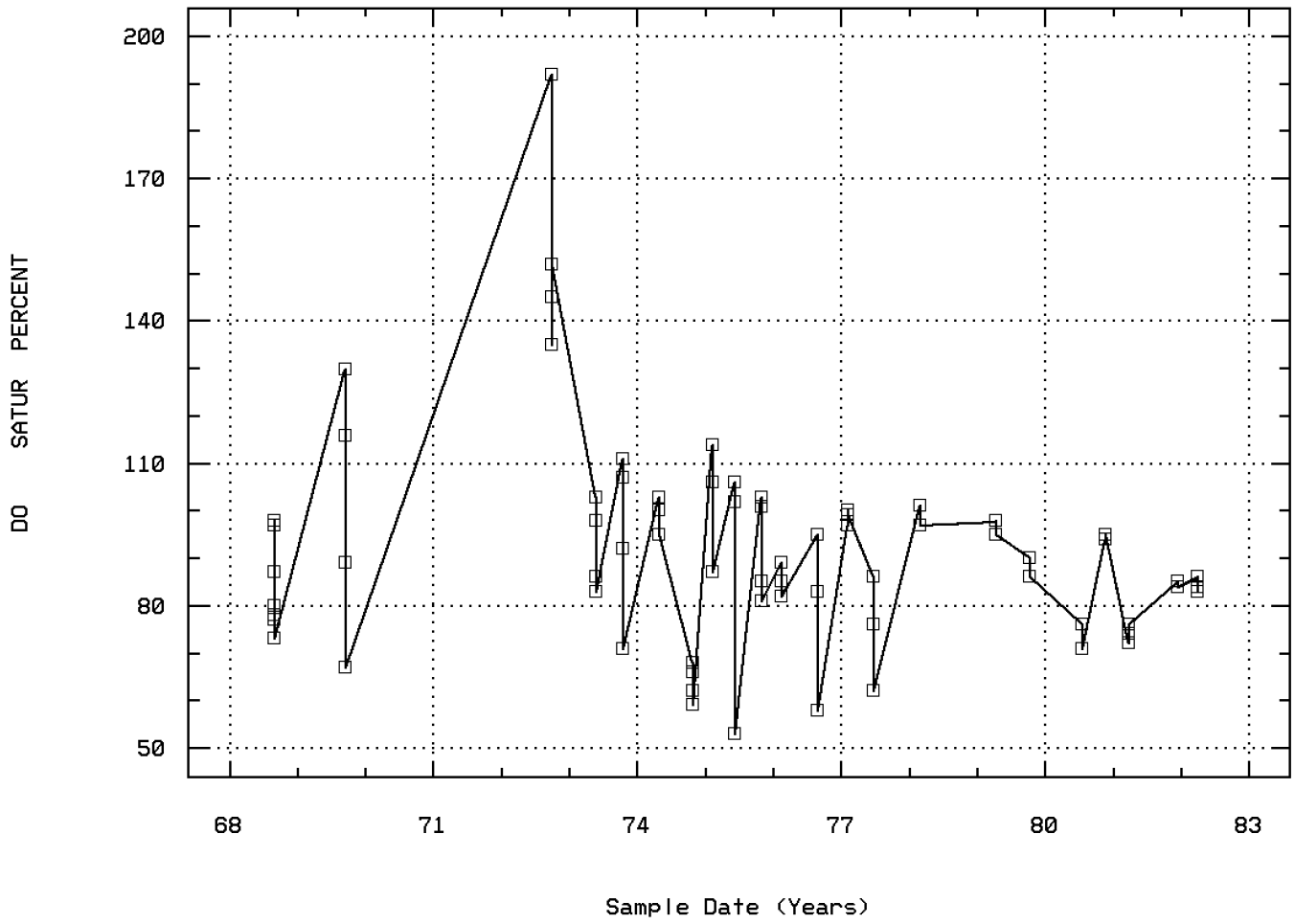
OXYGEN, DISSOLVED



1205302LAGUNA MADRE ES LINE 053 SITE 02

Station: PAIS0121 Parameter Code: 00301

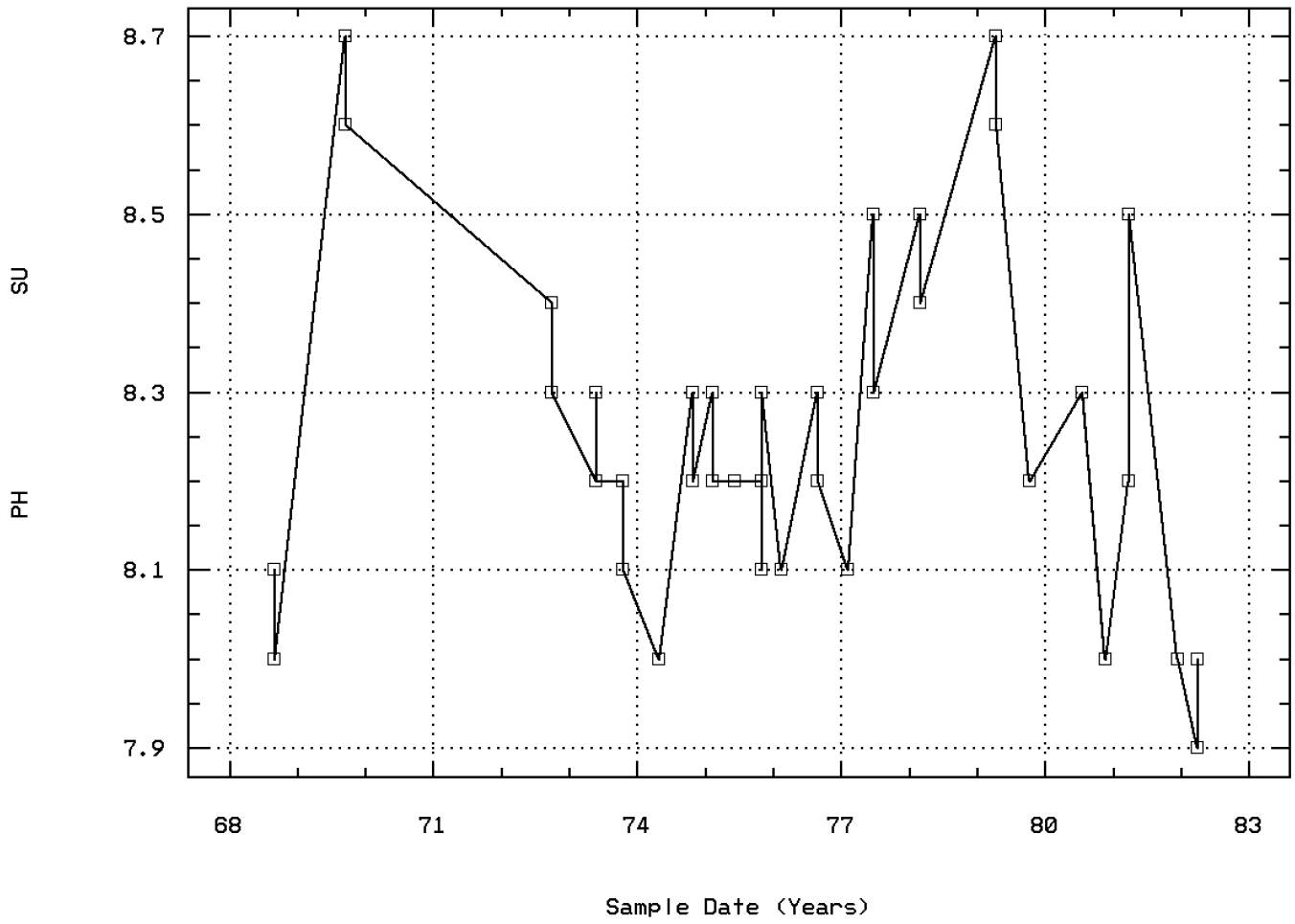
OXYGEN, DISSOLVED, PERCENT OF SATURATIO



1205302LAGUNA MADRE ES LINE 053 SITE 02

Station: PAIS0121 Parameter Code: 00400

PH (STANDARD UNITS)



1205302LAGUNA MADRE ES LINE 053 SITE 02

Seasonal Analysis for Season #1: 5/01 to 10/31 - Station PAIS0121

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/27/68-03/30/82	47	6.	7.277	16.	1.	26.291	5.128	1.	1.	12.	14.2
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/27/68-03/30/82	47	28.2	26.928	29.9	22.9	6.27	2.504	23.	24.	29.	29.62
00078	TRANSPARENCY, SECCHI DISC (METERS)	08/28/68-03/30/82	10	0.82	1.432	6.9	0.5	3.749	1.936	0.507	0.675	1.098	6.346
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/27/68-03/30/82	47	53000.	53340.426	75000.	18000.	155522895.467	12470.882	38000.	52000.	60000.	64600.
00300	OXYGEN, DISSOLVED MG/L	08/27/68-03/30/82	47	5.6	5.894	11.9	3.3	3.015	1.736	3.9	4.7	6.7	8.84
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/27/68-03/30/82	47	86.	90.938	192.	53.	703.65	26.526	62.	73.	101.9	130.92
00400	PH (STANDARD UNITS)	08/27/68-03/30/82	47	8.2	8.253	8.7	8.	0.026	0.16	8.08	8.2	8.3	8.52
00400	CONVERTED PH (STANDARD UNITS)	08/27/68-03/30/82	47	8.2	8.227	8.7	8.	0.026	0.162	8.08	8.2	8.3	8.52
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/27/68-03/30/82	47	0.006	0.006	0.01	0.002	0.	0.002	0.003	0.005	0.006	0.008
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/27/68-06/22/77	12	0.045	0.123	0.67	0.	0.037	0.192	0.	0.	0.185	0.547
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/27/68-06/22/77	12	0.006	0.009	0.03	0.	0.	0.011	0.	0.	0.016	0.029
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/27/68-06/22/77	12	0.	0.093	1.	0.	0.082	0.287	0.	0.	0.008	0.73
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/27/68-06/22/77	12	0.05	0.047	0.1	0.	0.001	0.028	0.	0.033	0.06	0.091

** - Less than 9 observations ## - Computed 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: 11/01 to 4/30 - Station PAIS0121

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/27/68-03/30/82	30	6.5	7.2	16.	1.	28.993	5.385	1.	1.	13.	15.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/27/68-03/30/82	30	18.55	17.72	25.1	8.	23.45	4.843	8.45	14.5	20.	24.95
00078	TRANSPARENCY, SECCHI DISC (METERS)	08/28/68-03/30/82	9	0.62	0.716	1.08	0.4	0.075	0.274	0.4	0.47	1.045	1.08
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/27/68-03/30/82	30	44250.	45610.	59000.	33000.	63696103.448	7980.984	34300.	40275.	54000.	58700.
00300	OXYGEN, DISSOLVED MG/L	08/27/68-03/30/82	30	7.25	7.413	9.9	5.9	1.387	1.178	6.1	6.4	8.5	9.52
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/27/68-03/30/82	30	94.5	92.453	113.9	72.	111.934	10.58	76.6	84.	100.	105.6
00400	PH (STANDARD UNITS)	08/27/68-03/30/82	30	8.1	8.17	8.7	7.9	0.047	0.217	8.	8.	8.3	8.5
00400	CONVERTED PH (STANDARD UNITS)	08/27/68-03/30/82	30	8.1	8.125	8.7	7.9	0.049	0.221	8.	8.	8.3	8.5
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/27/68-03/30/82	30	0.008	0.007	0.013	0.002	0.	0.003	0.003	0.005	0.01	0.01
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/27/68-06/22/77	6	0.115	0.113	0.14	0.08	0.001	0.025	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/27/68-06/22/77	6	0.003	0.013	0.04	0.	0.	0.018	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/27/68-06/22/77	6	0.005	0.005	0.01	0.	0.	0.005	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/27/68-06/22/77	6	0.07	0.108	0.22	0.05	0.006	0.076	**	**	**	**

** - Less than 9 observations ## - Computed 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: PAIS0122

NPS Station ID: PAIS0122
LAT/LON: 27.356254/ -97.372810
Agency: 11NPSWRD
Date Created: 06/12/99
Location: STATION 89B IN THE LAGUNA MADRE
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SMEV_89B
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH BIRD ISLAND SE; TEXAS-KLEBERG C 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS INSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 89B IN THE LAGUNA MADRE. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT PADRE ISLAND NATIONAL SEASHORE; P.O. BOX 181300; CORPUS CHRISTI TX 78480-1300 (TEL. 361-949-8173). DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0122

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/06/75-11/06/75	1	26.2	26.2	26.2	26.2	0.	0.	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	11/06/75-11/06/75	1	37.2	37.2	37.2	37.2	0.	0.	**	**	**	**

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

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

Station Inventory for Station: PAIS0123

NPS Station ID: PAIS0123 LAT/LON: 27.361337/ -97.380838 Agency: 11NPSWRD Date Created: 06/12/99
Location: BEACON 89 ON THE INTRACOASTAL WATERWAY FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): PAIS_SMEV_89
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110203 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110203 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE POINT OF ROCKS TEXAS 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT BEACON 89 ON THE INTRACOASTAL WATERWAY. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0123

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/06/75-01/14/76	3	18.1	19.833	26.2	15.2	32.503	5.701	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	11/06/75-01/14/76	3	36.8	36.4	38.6	33.8	5.88	2.425	**	**	**	**

** - Less than 9 observations ## - 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: PAIS0124

NPS Station ID: PAIS0124
LAT/LON: 27.363226/ -97.385449
Agency: 11NPSWRD
Date Created: 06/12/99
Location: STATION 89A IN THE LAGUNA MADRE
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SMEV_89A
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE POINT OF ROCKS TEXAS 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 89A IN THE LAGUNA MADRE. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0124

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/06/75-11/06/75	1	25.5	25.5	25.5	25.5	0.	0.	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	11/06/75-11/06/75	1	37.5	37.5	37.5	37.5	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: PAIS0125

NPS Station ID: PAIS0125 | LAT/LON: 27.384087/ -97.370338 | Agency: 11NPSWRD | Date Created: 04/17/99
Location: LIGHT 83 ON INTRACOASTAL WATERWAY | FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY | STORET Station ID(s): PAIS_ICW_83
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 12110203 | Depth of Water: 0 | Aquifer:
Major Basin: WESTERN GULF | Elevation: 0 | Water Body Id:
Minor Basin: NUECES RIVER | ECO Region:
RF1 Index: 12110203 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: 12110208252000.00 | RF3 Mile Point: 0.00 | Distance from RF3: 0.29 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH BIRD ISLAND TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT BEACON LIGHT 83 ON THE INTRACOASTAL WATERWAY. DATA ARE FROM A REPORT BY JIM BOWMAN OF THE TEXAS WATER QUALITY BOARD; "DOMESTIC WASTE IN LAGUNA MADRE FROM HOUSES ON SPOIL ISLAND;" JULY 1972. THE PURPOSE OF THIS REPORT WAS TO INVESTIGATE "THE POLLUTION OF THE LAGUNA MADRE FROM DOMESTIC WASTE COMING FROM A NUMBER OF "SQUATTER" CABINS LOCATED ON SPOIL ISLANDS IN THE LAGUNA MADRE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0125

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/07/72-07/07/72	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	07/07/72-07/07/72	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			1.								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/07/72-07/07/72	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/07/72-07/07/72	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			1.								

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

EPA Water Quality Criteria Analysis for Station: PAIS0125

						----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	1	0	0.00	1	0	0.00									
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: PAIS0126

NPS Station ID: PAIS0126 LAT/LON: 27.384115/ -97.370671 Agency: 11NPSWRD Date Created: 06/12/99
Location: BEACON 83 ON THE INTRACOASTAL WATERWAY FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): PAIS_SMEV_83
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110203 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110203 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH BIRD ISLAND TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT BEACON 83 ON THE INTRACOASTAL WATERWAY. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0126

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/11/75-01/14/76	2	16.7	16.7	17.9	15.5	2.88	1.697	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	12/11/75-01/14/76	2	36.	36.	39.	33.	18.	4.243	**	**	**	**

** - Less than 9 observations ## - 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: PAIS0127

NPS Station ID: PAIS0127 LAT/LON: 27.399115/ -97.362587 Agency: 11NPSWRD Date Created: 04/17/99
Location: LIGHT 79 ON THE INTRACOASTAL WATERWAY FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): PAIS_CONO_79
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110203 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110203 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH BIRD ISLAND TEXAS-KLEBERG COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT LIGHT 79 ON THE INTRACOASTAL WATERWAY. DATA WERE COLLECTED ALONG A TRANSECT PERPENDICULAR TO THE WATERWAY AND AVERAGED FOR THE MONTH. DATA ARE FROM A REPORT BY JOHN T. CONOVER; "THE ECOLOGY; SEASONAL PERIODICITY; AND DISTRIBUTION OF BENTHIC PLANTS IN SOME TEXAS LAGOONS;" OCTOBER 1963. THE PURPOSE OF THIS REPORT WAS TO "STUDY THE LOCAL EFFECTS OF LIGHT; TEMPERATURE; AND SALINITY ON THE SEASONAL GROWTH OF PLANTS." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0127

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: PAIS0128

NPS Station ID: PAIS0128 LAT/LON: 27.400004/ -97.345838 Agency: 21TXDOH Date Created: 03/24/79
Location: LAGUNA MADRE BAY,6.5 MI SO OF SOUTH BIRD ISLAND FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): LAG00199
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 12110203 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: RIO GRANDE LOWER BELOW PECOS RIVER ECO Region:
RF1 Index: 12110203 RF1 Mile Point: 0.000 Distance from RF1: 7.00 On/Off RF1:
RF3 Index: 12110203039500.00 RF3 Mile Point: 0.00 Distance from RF3: 0.13 On/Off RF3:
Description:
DATA FROM TEXAS STATE DEPARTMENT OF HEALTH FISH AND SHELLFISH SAMPLES ANALYZED FOR TOXICS SAMPLE TAKEN FROM
LAGUNA MADRE BAY,6.5 MILES SOUTH OF SOUTH BIRD ISLAND

Parameter Inventory for Station: PAIS0128

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/07/77-07/07/77	1	1421.	1421.	1421.	1421.	0.	0.	**	**	**	**
00024	SAMPLE LENGTH IN INCHES	07/07/77-07/07/77	1	2.	2.	2.	2.	0.	0.	**	**	**	**
71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	07/07/77-07/07/77	1	1.7	1.7	1.7	1.7	0.	0.	**	**	**	**
81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	07/07/77-07/07/77	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

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

Station Inventory for Station: PAIS0129

NPS Station ID: PAIS0129
LAT/LON: 27.404948/ -97.351866
Agency: 11NPSWRD
Date Created: 04/17/99
Location: STATION 31 UPPER LAGUNA MADRE
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SIMM_31
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH BIRD ISLAND TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS INSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 31 IN THE UPPER LAGUNA MADRE. DATA ARE FROM A REPORT BY ERNEST G. SIMMONS OF THE TEXAS GAME AND FISH COMMISSION; "AN ECOLOGICAL SURVEY OF THE UPPER LAGUNA MADRE OF TEXAS." THE PURPOSE OF THIS REPORT WAS TO EXAMINE "PLANT LIFE; INVERTEBRATES AND VERTEBRATES OF THE AREA AND THE RELATIONSHIP OF THESE TO BASIC PHYSICAL AND BIOLOGICAL FACTORS IN THE ENVIRONMENT." THE DAY WAS ASSUMED TO BE THE 15TH OF EACH MONTH. FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT PADRE ISLAND NATIONAL SEASHORE; P.O. BOX 181300; CORPUS CHRISTI TX 78480-1300 (TEL. 361-949-8173). DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0129

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/15/71-12/15/71	10	26.5	23.75	31.	2.	75.681	8.699	3.55	21.625	29.5	31.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/15/71-12/15/71	10	34.5	44.1	90.	25.	398.989	19.975	25.5	30.	54.75	87.3
00300	OXYGEN, DISSOLVED MG/L	01/15/71-12/15/71	10	6.5	6.6	8.	5.	0.933	0.966	5.1	6.	7.25	8.
00400	PH (STANDARD UNITS)	01/15/71-12/15/71	10	8.25	8.28	8.5	8.	0.024	0.155	8.02	8.2	8.425	8.5
00400	CONVERTED PH (STANDARD UNITS)	01/15/71-12/15/71	10	8.247	8.255	8.5	8.	0.025	0.157	8.02	8.2	8.425	8.5
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/15/71-12/15/71	10	0.006	0.006	0.01	0.003	0.	0.002	0.003	0.004	0.006	0.01
00480	SALINITY - PARTS PER THOUSAND	01/15/71-12/15/71	10	46.85	40.13	53.2	19.2	182.956	13.526	19.33	22.225	48.525	52.98

** - 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 time series plot

EPA Water Quality Criteria Analysis for Station: PAIS0129

						----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	10	3	0.30	6	2	0.33	4	1	0.25						
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	10	0	0.00	6	0	0.00	4	0	0.00						

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

EPA Water Quality Criteria Analysis for Station: PAIS0129

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	5/01-10/31 Obs	5/01-10/31 Exceed	5/01-10/31 Prop.	11/01-4/30 Obs	11/01-4/30 Exceed	11/01-4/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400 PH	Marine Chronic	8.5	10	2	0.20	6	2	0.33	4	0	0.00						
	Other-Lo Lim.	6.5	10	0	0.00	6	0	0.00	4	0	0.00						

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

Station Inventory for Station: PAIS0130

NPS Station ID: PAIS0130
LAT/LON: 27.404948/ -97.351866
Agency: 11NPSWRD
Date Created: 04/17/99
Location: STATION 31 UPPER LAGUNA MADRE
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SIM2_31
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH BIRD ISLAND TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS INSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 31 IN THE UPPER LAGUNA MADRE. DATA ARE FROM A REPORT BY ERNEST G. SIMMONS OF THE TEXAS GAME AND FISH COMMISSION; "AN ECOLOGICAL SURVEY OF THE UPPER LAGUNA MADRE OF TEXAS." THE PURPOSE OF THIS REPORT WAS TO EXAMINE "PLANT LIFE; INVERTEBRATES AND VERTEBRATES OF THE AREA AND THE RELATIONSHIP OF THESE TO BASIC PHYSICAL AND BIOLOGICAL FACTORS IN THE ENVIRONMENT." SALINITY DATA IS THE AVERAGE FOR THE MONTH. FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT PADRE ISLAND NATIONAL SEASHORE; P.O. BOX 181300; CORPUS CHRISTI TX 78480-1300 (TEL. 361-949-8173). DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0130

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: PAIS0131

NPS Station ID: PAIS0131
LAT/LON: 27.407392/ -97.338643
Agency: 11NPSWRD
Date Created: 06/12/99
Location: STATION 75B IN THE LAGUNA MADRE
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SMEV_75B
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH BIRD ISLAND TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS INSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 75B IN THE LAGUNA MADRE. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT PADRE ISLAND NATIONAL SEASHORE; P.O. BOX 181300; CORPUS CHRISTI TX 78480-1300 (TEL. 361-949-8173). DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0131

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/19/75-09/19/75	1	28.8	28.8	28.8	28.8	0.	0.	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	09/19/75-09/19/75	1	33.2	33.2	33.2	33.2	0.	0.	**	**	**	**

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

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

Station Inventory for Station: PAIS0132

NPS Station ID: PAIS0132
LAT/LON: 27.410170/ -97.345310
Agency: 11NPSWRD
Date Created: 06/12/99
Location: STATION 75A IN THE LAGUNA MADRE
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SMEV_75A
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH BIRD ISLAND TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS INSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 75A IN THE LAGUNA MADRE. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT PADRE ISLAND NATIONAL SEASHORE; P.O. BOX 181300; CORPUS CHRISTI TX 78480-1300 (TEL. 361-949-8173). DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0132

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/19/75-09/19/75	1	28.7	28.7	28.7	28.7	0.	0.	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	09/19/75-09/19/75	1	33.6	33.6	33.6	33.6	0.	0.	**	**	**	**

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

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

Station Inventory for Station: PAIS0133

NPS Station ID: PAIS0133 LAT/LON: 27.413948/ -97.354976 Agency: 11NPSWRD Date Created: 06/12/99
Location: BEACON 75 ON THE INTRACOASTAL WATERWAY FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): PAIS_SMEV_75
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110203 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110203 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH BIRD ISLAND TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT BEACON 75 ON THE INTRACOASTAL WATERWAY. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0133

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/13/75-01/14/76	5	25.7	23.36	29.1	15.5	41.018	6.405	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	06/13/75-01/14/76	5	37.2	36.4	41.3	32.	12.415	3.523	**	**	**	**

** - Less than 9 observations ## - 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: PAIS0134

NPS Station ID: PAIS0134 | LAT/LON: 27.414059/ -97.354199 | Agency: 11NPSWRD | Date Created: 04/17/99
Location: LIGHT 75 ON INTRACOASTAL WATERWAY | FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY | STORET Station ID(s): PAIS_ICW_75
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 12110203 | Depth of Water: 0 | Aquifer:
Major Basin: WESTERN GULF | Elevation: 0 | Water Body Id:
Minor Basin: NUECES RIVER | ECO Region:
RF1 Index: 12110203 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: 12110208252000.00 | RF3 Mile Point: 0.00 | Distance from RF3: 0.29 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH BIRD ISLAND TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT BEACON LIGHT 75 ON THE INTRACOASTAL WATERWAY. DATA ARE FROM A REPORT BY JIM BOWMAN OF THE TEXAS WATER QUALITY BOARD; "DOMESTIC WASTE IN LAGUNA MADRE FROM HOUSES ON SPOIL ISLAND;" JULY 1972. THE PURPOSE OF THIS REPORT WAS TO INVESTIGATE "THE POLLUTION OF THE LAGUNA MADRE FROM DOMESTIC WASTE COMING FROM A NUMBER OF "SQUATTER" CABINS LOCATED ON SPOIL ISLANDS IN THE LAGUNA MADRE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0134

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/07/72-07/07/72	1	2.	2.	2.	2.	0.	0.	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	07/07/72-07/07/72	1	0.301	0.301	0.301	0.301	0.	0.	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			2.								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/07/72-07/07/72	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/07/72-07/07/72	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			1.								

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

EPA Water Quality Criteria Analysis for Station: PAIS0134

						----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	1	0	0.00	1	0	0.00									
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: PAIS0135

NPS Station ID: PAIS0135
LAT/LON: 27.418448/ -97.353421
Agency: 11NPSWRD
Date Created: 02/20/99
Location: UPPER LAGUNA MADRE TRANSECT 4 SITE 2
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_TWDB_04-2
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH BIRD ISLAND TEXAS-KLEBERG CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT TRANSECT 4 SITE 2 IN THE UPPER LAGUNA MADRE. DATA ARE FROM A SERIES OF YEARLY REPORTS (NUMBERS 117; 144; 171; AND 191) BY D. C. HAHL AND KARL W. RATZLAFF OF THE U.S. GEOLOGICAL SURVEY FOR THE TEXAS WATER DEVELOPMENT BOARD. THE REPORTS ARE TITLED "CHEMICAL AND PHYSICAL CHARACTERISTICS OF WATER IN ESTUARIES OF TEXAS SEPTEMBER 1967-SEPTEMBER 1968; OCTOBER 1968-SEPTEMBER 1969; OCTOBER 1969-SEPTEMBER 1970; AND OCTOBER 1970-SEPTEMBER 1971" AND WERE PUBLISHED IN MAY 1970; APRIL 1972; JUNE 1973; AND MAY 1975 RESPECTIVELY. THE PURPOSE OF THESE REPORTS WAS TO CREATE "A LONG-TERM RECORD OF THE CHEMICAL; PHYSICAL; AND HYDRAULIC CHARACTERISTICS OF THE TEXAS ESTUARINE SYSTEMS." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0135

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/28/68-09/16/69	8	7.5	7.5	15.	1.	28.	5.292	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/28/68-09/16/69	8	28.45	28.613	29.5	28.2	0.261	0.511	**	**	**	**
00078	TRANSPARENCY, SECCHI DISC (METERS)	08/28/68-09/16/69	2	0.795	0.795	1.54	0.05	1.11	1.054	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/28/68-09/16/69	8	61500.	62500.	75000.	50000.	140285714.286	11844.227	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/28/68-09/16/69	8	4.9	5.213	6.7	4.5	0.624	0.79	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/28/68-09/16/69	8	78.5	88.625	126.	73.	388.268	19.705	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	08/28/68-09/16/69	8	8.35	8.375	8.5	8.2	0.014	0.116	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	08/28/68-09/16/69	8	8.347	8.361	8.5	8.2	0.014	0.117	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/28/68-09/16/69	8	0.004	0.004	0.006	0.003	0.	0.001	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: PAIS0135

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	5/01-10/31 Obs	5/01-10/31 Exceed	5/01-10/31 Prop.	11/01-4/30 Obs	11/01-4/30 Exceed	11/01-4/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	8	0	0.00	8	0	0.00									
00406	PH, FIELD	Marine Chronic	8.5	8	3	0.38	8	3	0.38									
		Other-Lo Lim.	6.5	8	0	0.00	8	0	0.00									

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

Station Inventory for Station: PAIS0136

NPS Station ID: PAIS0136 LAT/LON: 27.420476/ -97.307726 Agency: 11NPSWRD Date Created: 04/03/99
Location: POND C NEAR END OF PARK ROAD TO WASTE DUMP FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): PAIS_SISS_PC
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 12110203 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110203 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH BIRD ISLAND TEXAS-KLEBERG CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS INSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT POND C LOCATED NEAR THE END OF THE PARK ROAD LEADING TO THE HAZARDOUS WASTE DUMP. DATA ARE FROM A REPORT BY DR. STANLEY L. SISSOM; "A BASELINE STUDY OF THREE PONDS WITHIN THE PADRE ISLAND NATIONAL PARK;" DECEMBER 1990. THE STUDY "INVESTIGATES THE MANY ASPECTS OF THESE THREE PONDS IN ORDER TO ESTABLISH A FOUNDATION... FOR FURTHER STUDIES." THE DATE WAS ASSUMED TO BE THE 15TH OF EACH MONTH. FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT PADRE ISLAND NATIONAL SEASHORE; P.O. BOX 181300; CORPUS CHRISTI TX 78480-1300 (TEL. 361-949-8173). DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0136

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/15/89-08/15/90	12	29.5	25.458	33.	12.	56.884	7.542	12.9	17.75	31.	32.85
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/15/89-08/15/90	12	12.	11.667	30.	0.	95.333	9.764	0.	2.25	19.5	27.
00300	OXYGEN, DISSOLVED MG/L	09/15/89-08/15/90	12	6.9	7.167	10.	5.4	2.124	1.457	5.52	6.	8.	9.79
00406	PH, FIELD, STANDARD UNITS SU	09/15/89-08/15/90	12	8.4	8.458	9.2	8.2	0.064	0.254	8.23	8.3	8.5	8.99
00406	CONVERTED PH, FIELD, STANDARD UNITS	09/15/89-08/15/90	12	8.4	8.411	9.2	8.2	0.067	0.259	8.23	8.3	8.5	8.99
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/15/89-08/15/90	12	0.004	0.004	0.006	0.001	0.	0.001	0.001	0.003	0.005	0.006
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	10/15/89-08/15/90	11	132.	140.636	196.	90.	1062.455	32.595	94.	125.	160.	196.
00480	SALINITY - PARTS PER THOUSAND	09/15/89-08/15/90	12	14.3	14.792	19.8	10.5	9.137	3.023	10.89	12.	17.625	19.56
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/15/89-02/15/90	2	10.64	10.64	18.19	3.09	114.005	10.677	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	02/15/90-02/15/90	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	09/15/89-02/15/90	2 ##	0.013	0.013	0.025	0.	0.	0.018	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	09/15/89-09/15/89	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/15/89-09/15/89	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/15/89-09/15/89	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	09/15/89-09/15/89	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	09/15/89-09/15/89	1	200.	200.	200.	200.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	09/15/89-09/15/89	1	8.	8.	8.	8.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	09/15/89-09/15/89	1	3960.	3960.	3960.	3960.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	09/15/89-09/15/89	1	100.	100.	100.	100.	0.	0.	**	**	**	**
03582	OIL AND GREASE, WATER, TOTAL MG/L	09/15/89-09/15/89	1	7.49	7.49	7.49	7.49	0.	0.	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	09/15/89-09/15/89	1	0.07	0.07	0.07	0.07	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: PAIS0136

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------5/01-10/31---------- Obs	Exceed	Prop.	----------11/01-4/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	12	0	0.00	6	0	0.00	6	0	0.00						
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	12	0	0.00	6	0	0.00	6	0	0.00						
00406	PH, FIELD	Fresh Chronic	9.	12	1	0.08	6	1	0.17	6	0	0.00						
		Other-Lo Lim.	6.5	12	0	0.00	6	0	0.00	6	0	0.00						
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	2	1	0.50	1	1	1.00	1	0	0.00						
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	1	1	1.00	1	1	1.00									
		Drinking Water	5.	1	1	1.00	1	1	1.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00	1	0	0.00									
		Drinking Water	15.	1	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									
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									

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

Station Inventory for Station: PAIS0137

NPS Station ID: PAIS0137 LAT/LON: 27.426476/ -97.348476 Agency: 11NPSWRD Date Created: 06/12/99
Location: MARKER 72 ON THE INTRACOASTAL WATERWAY FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): PAIS_SMEV_72
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110203 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110203 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH BIRD ISLAND TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT MARKER 72 ON THE INTRACOASTAL WATERWAY. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0137

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/19/75-09/19/75	1	29.	29.	29.	29.	0.	0.	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	09/19/75-09/19/75	1	34.1	34.1	34.1	34.1	0.	0.	**	**	**	**

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

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

Station Inventory for Station: PAIS0138

NPS Station ID: PAIS0138
LAT/LON: 27.426781/ -97.361170
Agency: 11NPSWRD
Date Created: 04/17/99
Location: STATION 30 UPPER LAGUNA MADRE
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SIMM_30
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH BIRD ISLAND TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 30 IN THE UPPER LAGUNA MADRE. DATA ARE FROM A REPORT BY ERNEST G. SIMMONS OF THE TEXAS GAME AND FISH COMMISSION; "AN ECOLOGICAL SURVEY OF THE UPPER LAGUNA MADRE OF TEXAS." THE PURPOSE OF THIS REPORT WAS TO EXAMINE "PLANT LIFE; INVERTEBRATES AND VERTEBRATES OF THE AREA AND THE RELATIONSHIP OF THESE TO BASIC PHYSICAL AND BIOLOGICAL FACTORS IN THE ENVIRONMENT." THE DAY WAS ASSUMED TO BE THE 15TH OF EACH MONTH. DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0138

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/15/71-12/15/71	11	25.5	24.864	30.	19.	13.855	3.722	19.2	21.	27.5	29.8
00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/15/71-12/15/71	11	42.	41.818	60.	25.	141.764	11.906	26.	30.	52.	59.2
00300	OXYGEN, DISSOLVED MG/L	01/15/71-12/15/71	11	7.	7.	9.	5.	1.6	1.265	5.2	6.	8.	9.
00400	PH (STANDARD UNITS)	01/15/71-12/15/71	11	8.2	8.182	8.6	7.	0.186	0.431	7.2	8.1	8.4	8.58
00400	CONVERTED PH (STANDARD UNITS)	01/15/71-12/15/71	11	8.2	7.852	8.6	7.	0.305	0.552	7.2	8.1	8.4	8.58
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/15/71-12/15/71	11	0.006	0.014	0.1	0.003	0.001	0.029	0.003	0.004	0.008	0.082
00480	SALINITY - PARTS PER THOUSAND	01/15/71-12/15/71	11	47.7	38.682	53.2	18.5	239.46	15.474	18.68	19.4	51.6	52.98

** - 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 time series plot

EPA Water Quality Criteria Analysis for Station: PAIS0138

						----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	11	4	0.36	6	3	0.50	5	1	0.20						
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	11	0	0.00	6	0	0.00	5	0	0.00						
00400	PH	Marine Chronic	8.5	11	2	0.18	6	1	0.17	5	1	0.20						
		Other-Lo Lim.	6.5	11	0	0.00	6	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: PAIS0139

NPS Station ID: PAIS0139
LAT/LON: 27.426781/ -97.361170
Agency: 11NPSWRD
Date Created: 04/17/99
Location: STATION 30 UPPER LAGUNA MADRE
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SIM2_30
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH BIRD ISLAND TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 30 IN THE UPPER LAGUNA MADRE. DATA ARE FROM A REPORT BY ERNEST G. SIMMONS OF THE TEXAS GAME AND FISH COMMISSION; "AN ECOLOGICAL SURVEY OF THE UPPER LAGUNA MADRE OF TEXAS." THE PURPOSE OF THIS REPORT WAS TO EXAMINE "PLANT LIFE; INVERTEBRATES AND VERTEBRATES OF THE AREA AND THE RELATIONSHIP OF THESE TO BASIC PHYSICAL AND BIOLOGICAL FACTORS IN THE ENVIRONMENT." SALINITY DATA IS THE AVERAGE FOR THE MONTH. DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0139

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: PAIS0140

NPS Station ID: PAIS0140
LAT/LON: 27.426892/ -97.333199
Agency: 11NPSWRD
Date Created: 04/17/99
Location: STATION 29 UPPER LAGUNA MADRE
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SIMM_29
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH BIRD ISLAND TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS INSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 29 IN THE UPPER LAGUNA MADRE. DATA ARE FROM A REPORT BY ERNEST G. SIMMONS OF THE TEXAS GAME AND FISH COMMISSION; "AN ECOLOGICAL SURVEY OF THE UPPER LAGUNA MADRE OF TEXAS." THE PURPOSE OF THIS REPORT WAS TO EXAMINE "PLANT LIFE; INVERTEBRATES AND VERTEBRATES OF THE AREA AND THE RELATIONSHIP OF THESE TO BASIC PHYSICAL AND BIOLOGICAL FACTORS IN THE ENVIRONMENT." THE DAY WAS ASSUMED TO BE THE 15TH OF EACH MONTH. FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT PADRE ISLAND NATIONAL SEASHORE; P.O. BOX 181300; CORPUS CHRISTI TX 78480-1300 (TEL. 361-949-8173). DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0140

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/15/71-12/15/71	12	26.	24.917	32.	17.	23.72	4.87	17.15	21.375	28.75	31.55
00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/15/71-12/15/71	12	39.	43.417	83.	25.	256.447	16.014	25.	35.	50.	76.1
00300	OXYGEN, DISSOLVED MG/L	01/15/71-12/15/71	12	7.5	7.25	8.	6.	0.75	0.866	6.	6.25	8.	8.
00400	PH (STANDARD UNITS)	01/15/71-12/15/71	12	8.2	8.2	8.7	7.5	0.084	0.289	7.68	8.1	8.375	8.64
00400	CONVERTED PH (STANDARD UNITS)	01/15/71-12/15/71	12	8.2	8.095	8.7	7.5	0.096	0.309	7.68	8.1	8.375	8.64
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/15/71-12/15/71	12	0.006	0.008	0.032	0.002	0.	0.008	0.002	0.004	0.008	0.025
00480	SALINITY - PARTS PER THOUSAND	01/15/71-12/15/71	12	42.4	39.483	54.4	19.4	157.423	12.547	20.24	25.175	50.075	53.71

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

EPA Water Quality Criteria Analysis for Station: PAIS0140

						----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	12	4	0.33	6	2	0.33	6	2	0.33						
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	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

EPA Water Quality Criteria Analysis for Station: PAIS0140

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	5/01-10/31 Obs	5/01-10/31 Exceed	5/01-10/31 Prop.	11/01-4/30 Obs	11/01-4/30 Exceed	11/01-4/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400 PH	Marine Chronic	8.5	12	2	0.17	6	2	0.33	6	0	0.00						
	Other-Lo Lim.	6.5	12	0	0.00	6	0	0.00	6	0	0.00						

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

Station Inventory for Station: PAIS0141

NPS Station ID: PAIS0141
LAT/LON: 27.426892/ -97.333199
Agency: 11NPSWRD
Date Created: 04/17/99
Location: STATION 29 UPPER LAGUNA MADRE
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SIM2_29
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH BIRD ISLAND TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS INSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 29 IN THE UPPER LAGUNA MADRE. DATA ARE FROM A REPORT BY ERNEST G. SIMMONS OF THE TEXAS GAME AND FISH COMMISSION; "AN ECOLOGICAL SURVEY OF THE UPPER LAGUNA MADRE OF TEXAS." THE PURPOSE OF THIS REPORT WAS TO EXAMINE "PLANT LIFE; INVERTEBRATES AND VERTEBRATES OF THE AREA AND THE RELATIONSHIP OF THESE TO BASIC PHYSICAL AND BIOLOGICAL FACTORS IN THE ENVIRONMENT." SALINITY DATA IS THE AVERAGE FOR THE MONTH. FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT PADRE ISLAND NATIONAL SEASHORE; P.O. BOX 181300; CORPUS CHRISTI TX 78480-1300 (TEL. 361-949-8173). DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0141

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: PAIS0142

NPS Station ID: PAIS0142
LAT/LON: 27.427003/ -97.340309
Agency: 11NPSWRD
Date Created: 06/12/99
Location: STATION 71A IN THE LAGUNA MADRE
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SMEV_71A
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH BIRD ISLAND TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS INSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 71A IN THE LAGUNA MADRE. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT PADRE ISLAND NATIONAL SEASHORE; P.O. BOX 181300; CORPUS CHRISTI TX 78480-1300 (TEL. 361-949-8173). DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0142

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/19/75-09/19/75	1	28.8	28.8	28.8	28.8	0.	0.	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	09/19/75-09/19/75	1	33.5	33.5	33.5	33.5	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: PAIS0143

NPS Station ID: PAIS0143
LAT/LON: 27.429531/ -97.354448
Agency: 11NPSWRD
Date Created: 06/12/99
Location: STATION 72B IN THE LAGUNA MADRE
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SMEV_72B
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH BIRD ISLAND TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 72B IN THE LAGUNA MADRE. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0143

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/19/75-09/19/75	1	28.9	28.9	28.9	28.9	0.	0.	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	09/19/75-09/19/75	1	34.	34.	34.	34.	0.	0.	**	**	**	**

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

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

Station Inventory for Station: PAIS0144

NPS Station ID: PAIS0144
LAT/LON: 27.431865/ -97.337671
Agency: 11NPSWRD
Date Created: 06/12/99
Location: STATION 70A IN THE LAGUNA MADRE
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SMEV_70A
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH BIRD ISLAND TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS INSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 70A IN THE LAGUNA MADRE. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT PADRE ISLAND NATIONAL SEASHORE; P.O. BOX 181300; CORPUS CHRISTI TX 78480-1300 (TEL. 361-949-8173). DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0144

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/19/75-09/19/75	1	28.9	28.9	28.9	28.9	0.	0.	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	09/19/75-09/19/75	1	33.8	33.8	33.8	33.8	0.	0.	**	**	**	**

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

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

Station Inventory for Station: PAIS0145

NPS Station ID: PAIS0145
LAT/LON: 27.432920/ -97.362670
Agency: 11NPSWRD
Date Created: 06/12/99
Location: STATION 72A IN THE LAGUNA MADRE
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SMEV_72A
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH BIRD ISLAND TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 72A IN THE LAGUNA MADRE. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0145

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/19/75-09/19/75	1	28.9	28.9	28.9	28.9	0.	0.	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	09/19/75-09/19/75	1	34.	34.	34.	34.	0.	0.	**	**	**	**

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

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

Station Inventory for Station: PAIS0146

NPS Station ID: PAIS0146
LAT/LON: 27.436115/ -97.343893
Agency: 112WRD
Date Created: 04/18/81
Location: 1204402LAGUNA MADRE ES LINE 044 SITE 02
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): 272610097203800
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 12110203001
RF1 Mile Point: 19.080
Distance from RF1: 4.50
On/Off RF1: ON
RF3 Index: 12110205043500.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:

Parameter Inventory for Station: PAIS0146

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/28/68-06/04/75	35	8.	7.857	17.	1.	29.832	5.462	1.	2.	13.	15.4
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/28/68-06/04/75	35	26.7	25.377	29.5	18.7	10.875	3.298	18.8	23.	28.2	28.74
00070	TURBIDITY, (JACKSON CANDLE UNITS)	04/24/74-06/04/75	13	20.	28.838	134.9	5.	1111.373	33.337	5.	12.5	32.5	94.94
00078	TRANSPARENCY, SECCHI DISC (METERS)	08/28/68-06/04/75	9	1.02	2.084	11.	0.5	11.288	3.36	0.5	0.645	1.385	11.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/28/68-06/04/75	35	52000.	49714.286	75000.	23000.	197974789.916	14070.351	23600.	43000.	57000.	71800.
00300	OXYGEN, DISSOLVED MG/L	08/28/68-06/04/75	35	7.4	7.791	13.9	4.5	5.732	2.394	4.86	6.2	9.6	11.6
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/28/68-06/04/75	35	110.9	113.92	214.	73.	1077.434	32.824	77.6	91.	123.9	178.2
00400	PH (STANDARD UNITS)	08/28/68-06/04/75	27	8.3	8.289	8.5	8.1	0.012	0.109	8.1	8.3	8.3	8.5
00400	CONVERTED PH (STANDARD UNITS)	08/28/68-06/04/75	27	8.3	8.276	8.5	8.1	0.012	0.109	8.1	8.3	8.3	8.5
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/28/68-06/04/75	27	0.005	0.005	0.008	0.003	0.	0.001	0.003	0.005	0.005	0.008

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

EPA Water Quality Criteria Analysis for Station: PAIS0146

				Total	Exceed	Prop.	----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------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.	13	1	0.08	6	1	0.17	7	0	0.00						
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	35	0	0.00	27	0	0.00	8	0	0.00						
00400	PH	Marine Chronic	8.5	27	3	0.11	19	3	0.16	8	0	0.00						
		Other-Lo Lim.	6.5	27	0	0.00	19	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

Seasonal Analysis for Season #1: 5/01 to 10/31 - Station PAIS0146

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/28/68-06/04/75	27	8.	7.815	17.	1.	30.234	5.499	1.	1.	13.	15.2
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/28/68-06/04/75	27	26.9	26.433	29.5	22.5	6.267	2.503	22.6	23.	28.5	28.88
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/28/68-06/04/75	27	53000.	51851.852	75000.	23000.	228823361.823	15126.909	23000.	44000.	63000.	73400.
00300	OXYGEN, DISSOLVED MG/L	08/28/68-06/04/75	27	6.5	7.452	13.9	4.5	6.595	2.568	4.78	5.8	9.3	11.98
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/28/68-06/04/75	27	101.9	112.963	214.	73.	1363.272	36.923	77.	86.	120.9	184.2
00400	PH (STANDARD UNITS)	08/28/68-06/04/75	19	8.3	8.326	8.5	8.2	0.008	0.087	8.2	8.3	8.3	8.5
00400	CONVERTED PH (STANDARD UNITS)	08/28/68-06/04/75	19	8.3	8.319	8.5	8.2	0.008	0.088	8.2	8.3	8.3	8.5
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/28/68-06/04/75	19	0.005	0.005	0.006	0.003	0.	0.001	0.003	0.005	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 box-and-whisker plot

Seasonal Analysis for Season #2: 11/01 to 4/30 - Station PAIS0146

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/28/68-06/04/75	8	7.5	8.	17.	1.	32.571	5.707	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/28/68-06/04/75	8	21.8	21.813	24.9	18.7	10.721	3.274	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/28/68-06/04/75	8	42500.	42500.	48000.	37000.	34571428.571	5879.747	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	08/28/68-06/04/75	8	8.9	8.937	10.8	7.5	1.4	1.183	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/28/68-06/04/75	8	116.9	117.15	137.9	100.9	154.214	12.418	**	**	**	**
00400	PH (STANDARD UNITS)	08/28/68-06/04/75	8	8.2	8.2	8.3	8.1	0.011	0.107	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/28/68-06/04/75	8	8.189	8.189	8.3	8.1	0.012	0.108	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/28/68-06/04/75	8	0.006	0.006	0.008	0.005	0.	0.002	**	**	**	**

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

Station Inventory for Station: PAIS0147

NPS Station ID: PAIS0147
LAT/LON: 27.436781/ -97.335198
Agency: 11NPSWRD
Date Created: 06/12/99
Location: STATION 69B IN THE LAGUNA MADRE
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SMEV_69B
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH BIRD ISLAND TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS INSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 69B IN THE LAGUNA MADRE. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT PADRE ISLAND NATIONAL SEASHORE; P.O. BOX 181300; CORPUS CHRISTI TX 78480-1300 (TEL. 361-949-8173). DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0147

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/19/75-12/11/75	2	23.25	23.25	28.6	17.9	57.245	7.566	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	09/19/75-12/11/75	2	34.8	34.8	35.6	34.	1.28	1.131	**	**	**	**

** - Less than 9 observations ## - 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: PAIS0148

NPS Station ID: PAIS0148 LAT/LON: 27.438977/ -97.342088 Agency: 11NPSWRD Date Created: 06/12/99
Location: BEACON 69 ON THE INTRACOASTAL WATERWAY FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): PAIS_SMEV_69
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110203 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110203 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH BIRD ISLAND TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT BEACON 69 ON THE INTRACOASTAL WATERWAY. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0148

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/13/75-01/14/76	4	23.15	22.625	28.8	15.4	50.829	7.129	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	06/13/75-01/14/76	4	35.4	36.	41.1	32.1	15.48	3.934	**	**	**	**

** - Less than 9 observations ## - 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: PAIS0149

NPS Station ID: PAIS0149 LAT/LON: 27.439087/ -97.340976 Agency: 11NPSWRD Date Created: 02/27/99
Location: MARKER 59 ON THE INTRACOASTAL WATERWAY FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): PAIS_2491_200
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 12110203 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110203 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH BIRD ISLAND TEXAS-KLEBERG CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT MARKER 59 ON THE INTRACOASTAL WATERWAY. DATA ARE FROM A REPORT BY STEVE WARSHAW OF THE TEXAS WATER QUALITY BOARD; "WATER QUALITY SEGMENT REPORT FOR SEGMENT NO. 2491 LAGUNA MADRE;" JUNE 1975. "THE REPORT IS DESIGNED TO DESCRIBE PREVAILING WATER QUALITY IN A SEGMENT AND TO PROVIDE A BASIS FOR DECISION MAKING IN THE CONTINUING EFFORT TO MAINTAIN AND IMPROVE THE QUALITY OF TEXAS' SURFACE WATERS." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0149

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	10/23/73-07/17/74	4	73.	72.5	84.	60.	99.	9.95	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/23/73-07/17/74	4	48412.	50288.	85176.	19152.	738622080.	27177.603	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	10/23/73-07/17/74	4	9.65	8.9	11.2	5.1	7.553	2.748	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	10/23/73-07/17/74	4	101.5	107.25	143.	83.	664.25	25.773	**	**	**	**
00400	PH (STANDARD UNITS)	10/23/73-07/17/74	4	8.075	8.137	8.5	7.9	0.066	0.256	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/23/73-07/17/74	4	8.074	8.089	8.5	7.9	0.069	0.262	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/23/73-07/17/74	4	0.008	0.008	0.013	0.003	0.	0.004	**	**	**	**
00612	AMMONIA, UNIONZED (MG/L AS N)	10/23/73-07/17/74	4 ##	0.05	0.088	0.2	0.05	0.006	0.075	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	10/23/73-07/17/74	4 ##	0.015	0.015	0.015	0.015	0.	0.	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	10/23/73-07/17/74	4	0.1	0.093	0.1	0.07	0.	0.015	**	**	**	**
32230	CHLOROPHYLL A (MG/L)	10/23/73-07/17/74	4 ##	0.002	0.004	0.009	0.002	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: PAIS0149

				Total	Exceed	Prop.	----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	4	0	0.00	2	0	0.00	2	0	0.00						
00400	PH	Marine Chronic	8.5	4	1	0.25	2	1	0.50	2	0	0.00						
		Other-Lo Lim.	6.5	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

EPA Water Quality Criteria Analysis for Station: PAIS0149

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------5/01-10/31---------- Obs	Exceed	Prop.	----------11/01-4/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.

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

Station Inventory for Station: PAIS0150

NPS Station ID: PAIS0150 | LAT/LON: 27.439087/ -97.340976 | Agency: 11NPSWRD | Date Created: 04/17/99
Location: LIGHT 69 ON INTRACOASTAL WATERWAY | FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY | STORET Station ID(s): PAIS_ICW_69
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 12110203 | Depth of Water: 0 | Aquifer:
Major Basin: WESTERN GULF | Elevation: 0 | Water Body Id:
Minor Basin: NUECES RIVER | ECO Region:
RF1 Index: 12110203 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: 12110208252000.00 | RF3 Mile Point: 0.00 | Distance from RF3: 0.29 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH BIRD ISLAND TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT BEACON LIGHT 69 ON THE INTRACOASTAL WATERWAY. DATA ARE FROM A REPORT BY JIM BOWMAN OF THE TEXAS WATER QUALITY BOARD; "DOMESTIC WASTE IN LAGUNA MADRE FROM HOUSES ON SPOIL ISLAND;" JULY 1972. THE PURPOSE OF THIS REPORT WAS TO INVESTIGATE "THE POLLUTION OF THE LAGUNA MADRE FROM DOMESTIC WASTE COMING FROM A NUMBER OF "SQUATTER" CABINS LOCATED ON SPOIL ISLANDS IN THE LAGUNA MADRE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0150

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/07/72-07/07/72	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	07/07/72-07/07/72	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			1.								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/07/72-07/07/72	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/07/72-07/07/72	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			1.								

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

EPA Water Quality Criteria Analysis for Station: PAIS0150

						----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	1	0	0.00	1	0	0.00									
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: PAIS0151

NPS Station ID: PAIS0151 LAT/LON: 27.441615/ -97.299476 Agency: 11NPSWRD Date Created: 06/12/99
Location: POND NEAR BIRD ISLAND ROAD (PADRE ISLAND 2) FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): PAIS_TNRCC_P2
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 12110203 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110203 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH BIRD ISLAND TEXAS-KLEBERG COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS INSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT A POND NEAR THE BIRD ISLAND ROAD. DATA ARE FROM THE TEXAS NATURAL RESOURCE CONSERVATION COMMISSION; P.O. BOX 13087; AUSTIN TX 78711-3087. WATER QUALITY DATA WERE COLLECTED AT EIGHT DIFFERENT MONITORING STATIONS IN THE CORPUS CHRISTI AREA. FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT PADRE ISLAND NATIONAL SEASHORE; P.O. BOX 181300; CORPUS CHRISTI TX 78480-1300 (TEL. 361-949-8173). DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0151

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/21/98-07/21/98	1	36.8	36.8	36.8	36.8	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/21/98-07/21/98	1	551.	551.	551.	551.	0.	0.	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/21/98-07/21/98	1	8.6	8.6	8.6	8.6	0.	0.	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	07/21/98-07/21/98	1	49.	49.	49.	49.	0.	0.	**	**	**	**
00340	COD, .25N K2CR2O7 MG/L	07/21/98-07/21/98	1	232.	232.	232.	232.	0.	0.	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	07/21/98-07/21/98	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	07/21/98-07/21/98	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/21/98-07/21/98	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/21/98-07/21/98	1	50.	50.	50.	50.	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/21/98-07/21/98	1	42.	42.	42.	42.	0.	0.	**	**	**	**
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	07/21/98-07/21/98	1	38.	38.	38.	38.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/21/98-07/21/98	1	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/21/98-07/21/98	1	7.48	7.48	7.48	7.48	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/21/98-07/21/98	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/21/98-07/21/98	1	0.12	0.12	0.12	0.12	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	07/21/98-07/21/98	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/21/98-07/21/98	1	84.	84.	84.	84.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	07/21/98-07/21/98	1	110.	110.	110.	110.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	07/21/98-07/21/98	1	10.	10.	10.	10.	0.	0.	**	**	**	**
32213	PHEOPHYTIN-A,FLUORIMETRIC METHOD (UG/L)	07/21/98-07/21/98	1	141.	141.	141.	141.	0.	0.	**	**	**	**
32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	07/21/98-07/21/98	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	07/21/98-07/21/98	1	356.	356.	356.	356.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: PAIS0151

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------5/01-10/31---------- Obs	Exceed	Prop.	----------11/01-4/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	1	0	0.00	1	0	0.00									
00406	PH, FIELD	Fresh Chronic	9.	1	1	1.00	1	1	1.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	1	0	0.00	1	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
		Drinking Water	250.	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: PAIS0152

NPS Station ID: PAIS0152 LAT/LON: 27.441781/ -97.299337 Agency: 11NPSWRD Date Created: 04/03/99
Location: POND B OFF MAIN ROAD SOUTH OF RANGER STATION FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): PAIS_SISS_PB
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 12110203 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110203 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH BIRD ISLAND TEXAS-KLEBERG CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS INSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT POND B LOCATED OFF THE MAIN ROAD SOUTH OF THE RANGER STATION. DATA ARE FROM A REPORT BY DR. STANLEY L. SISSOM; "A BASELINE STUDY OF THREE PONDS WITHIN THE PADRE ISLAND NATIONAL PARK;" DECEMBER 1990. THE STUDY "INVESTIGATES THE MANY ASPECTS OF THESE THREE PONDS IN ORDER TO ESTABLISH A FOUNDATION... FOR FURTHER STUDIES." THE DATE WAS ASSUMED TO BE THE 15TH OF EACH MONTH. FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT PADRE ISLAND NATIONAL SEASHORE; P.O. BOX 181300; CORPUS CHRISTI TX 78480-1300 (TEL. 361-949-8173). DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0152

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/15/89-08/15/90	12	28.5	25.542	35.	12.	56.703	7.53	12.9	18.5	31.75	34.1
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/15/89-08/15/90	12	124.	121.333	190.	25.	2092.606	45.745	44.5	90.75	152.25	187.
00300	OXYGEN, DISSOLVED MG/L	09/15/89-08/15/90	12	7.85	8.	10.6	5.4	3.475	1.864	5.46	6.3	9.825	10.54
00406	PH, FIELD, STANDARD UNITS SU	09/15/89-08/15/90	12	8.5	8.5	9.8	7.7	0.242	0.492	7.79	8.325	8.6	9.44
00406	CONVERTED PH, FIELD, STANDARD UNITS	09/15/89-08/15/90	12	8.5	8.306	9.8	7.7	0.283	0.532	7.79	8.325	8.6	9.44
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/15/89-08/15/90	12	0.003	0.005	0.02	0.	0.	0.005	0.001	0.003	0.005	0.017
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	10/15/89-08/15/90	11	140.	149.818	210.	120.	783.564	27.992	120.4	134.	160.	206.4
00480	SALINITY - PARTS PER THOUSAND	09/15/89-08/15/90	12	0.2	0.45	2.5	0.1	0.45	0.671	0.13	0.2	0.35	1.99
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/15/89-02/15/90	2	2.62	2.62	2.99	2.25	0.274	0.523	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	02/15/90-02/15/90	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	09/15/89-02/15/90	2	0.35	0.35	0.5	0.2	0.045	0.212	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	09/15/89-09/15/89	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/15/89-09/15/89	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/15/89-09/15/89	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	09/15/89-09/15/89	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	09/15/89-09/15/89	1	160.	160.	160.	160.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	09/15/89-09/15/89	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	09/15/89-09/15/89	1	206.	206.	206.	206.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	09/15/89-09/15/89	1	320.	320.	320.	320.	0.	0.	**	**	**	**
03582	OIL AND GREASE, WATER, TOTAL MG/L	09/15/89-09/15/89	1	17.82	17.82	17.82	17.82	0.	0.	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	09/15/89-09/15/89	1	0.07	0.07	0.07	0.07	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: PAIS0152

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	5/01-10/31 Obs	5/01-10/31 Exceed	5/01-10/31 Prop.	11/01-4/30 Obs	11/01-4/30 Exceed	11/01-4/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	12	11	0.92	6	6	1.00	6	5	0.83						
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	12	0	0.00	6	0	0.00	6	0	0.00						
00406	PH, FIELD	Fresh Chronic	9.	12	1	0.08	6	1	0.17	6	0	0.00						
		Other-Lo Lim.	6.5	12	0	0.00	6	0	0.00	6	0	0.00						
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	2	0	0.00	1	0	0.00	1	0	0.00						
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	0 &	0	0.00												
		Drinking Water	5.	0 &	0	0.00												
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	1	1.00	1	1	1.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00	1	0	0.00									
		Drinking Water	15.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	1	1.00	1	1	1.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: PAIS0153

NPS Station ID: PAIS0153 LAT/LON: 27.441920/ -97.299392 Agency: 11NPSWRD Date Created: 04/03/99
Location: PERMANENT POND 0.4 MILE SOUTH OF RANGER STATION FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /RESERV/TYPA/AMBNT STORET Station ID(s): PAIS_HANN_PP3
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 12110203 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110203 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH BIRD ISLAND TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS INSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT A PERMANENT POND 0.4 MILE SOUTH OF THE RANGER STATION ON THE LEFT OF HIGHWAY 22. DATA ARE FROM A REPORT BY DR. HERBERT H. HANNAN; "A WATER QUALITY AND LIMNOLOGICAL STUDY OF THE SEWAGE SYSTEM-POND COMPLEX AT THE RANGER STATION NORTH PADRE ISLAND TEXAS;" OCTOBER 1978. THE PURPOSE OF THIS STUDY WAS TO CONDUCT "A GENERAL LIMNOLOGICAL SURVEY OF BOTH THE EPHEMERAL AND PERMANENT PONDS AND TO DETERMINE THE INFLUENCE OF THE SEPTIC SYSTEM SERVING THE RANGER STATION ON THE SURROUNDING ENVIRONMENT." FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT PADRE ISLAND NATIONAL SEASHORE; P.O. BOX 181300; CORPUS CHRISTI TX 78480-1300 (TEL. 361-949-8173).
DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL.970-225-3516).

Parameter Inventory for Station: PAIS0153

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/20/78-05/20/78	1	800.	800.	800.	800.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	05/20/78-05/20/78	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	05/20/78-05/20/78	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	05/20/78-05/20/78	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/20/78-05/20/78	1	0.006	0.006	0.006	0.006	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/20/78-05/20/78	1	76.	76.	76.	76.	0.	0.	**	**	**	**
00607	NITROGEN, ORGANIC, DISSOLVED (MG/L AS N)	05/20/78-05/20/78	1	2.2	2.2	2.2	2.2	0.	0.	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/20/78-05/20/78	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	05/20/78-05/20/78	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	05/20/78-05/20/78	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	05/20/78-05/20/78	1	2.3	2.3	2.3	2.3	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/20/78-05/20/78	1	94.	94.	94.	94.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/20/78-05/20/78	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	05/20/78-05/20/78	1	175.	175.	175.	175.	0.	0.	**	**	**	**
31623	FECAL COLIFORM,MF,MFC MEDIUM,VERIFIED #/100ML	05/20/78-05/20/78	1	80.	80.	80.	80.	0.	0.	**	**	**	**
31623	LOG FECAL COLIFORM,MF,MFC MEDIUM,VERIFIED #/100ML	05/20/78-05/20/78	1	1.903	1.903	1.903	1.903	0.	0.	**	**	**	**
31623	GM FECAL COLIFORM,MF,MFC MEDIUM,VERIFIED #/100ML	GEOMETRIC MEAN =			80.								
32230	CHLOROPHYLL A (MG/L)	08/18/78-08/18/78	1	0.155	0.155	0.155	0.155	0.	0.	**	**	**	**
50787	PHOSPHATE, TOTAL AS P, WATER MG/L	05/20/78-05/20/78	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**

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

Parameter Inventory for Station: PAIS0153

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	05/20/78-05/20/78	1	442.	442.	442.	442.	0.	0.	**	**	**	**
70961	PRODUCTIVITY, PRIMARY, GROSS (MGC/CU M/DAY)	08/18/78-08/18/78	1	1700.	1700.	1700.	1700.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: PAIS0153

				Total	Exceed	Prop.	----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------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									
00406	PH, FIELD	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	1	0	0.00	1	0	0.00									
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	1	0	0.00	1	0	0.00									
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
		Drinking Water	250.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: PAIS0154

NPS Station ID: PAIS0154 | LAT/LON: 27.441781/ -97.303006 | Agency: 11NPSWRD | Date Created: 04/03/99
Location: EPHEMERAL POND 400 YARDS WEST OF PP3 | FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/LAKE | STORET Station ID(s): PAIS_HANN_EP2
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 12110203 | Depth of Water: 0 | Aquifer:
Major Basin: WESTERN GULF | Elevation: 0 | Water Body Id:
Minor Basin: NUECES RIVER | ECO Region:
RF1 Index: 12110203 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: 12110208252000.00 | RF3 Mile Point: 0.00 | Distance from RF3: 0.29 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH BIRD ISLAND TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS INSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THE SITE IS A HAND DUG WELL AT A DRY POND WEST OF THE POND (PP3) SOUTH OF THE RANGER STATION. DATA ARE FROM A REPORT BY DR. HERBERT H. HANNAN; "A WATER QUALITY AND LIMNOLOGICAL STUDY OF THE SEWAGE SYSTEM-POND COMPLEX AT THE RANGER STATION NORTH PADRE ISLAND TEXAS;" OCTOBER 1978. THE PURPOSE OF THIS STUDY WAS TO CONDUCT "A GENERAL LIMNOLOGICAL SURVEY OF BOTH THE EPHEMERAL AND PERMANENT PONDS AND TO DETERMINE THE INFLUENCE OF THE SEPTIC SYSTEM SERVING THE RANGER STATION ON THE SURROUNDING ENVIRONMENT." FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT PADRE ISLAND NATIONAL SEASHORE; P.O. BOX 181300; CORPUS CHRISTI TX 78480-1300 (TEL. 361-949-8173).
DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL.970-225-3516).

Parameter Inventory for Station: PAIS0154

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/20/78-05/20/78	1	7000.	7000.	7000.	7000.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	05/20/78-05/20/78	1	8.8	8.8	8.8	8.8	0.	0.	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	05/20/78-05/20/78	1	10.2	10.2	10.2	10.2	0.	0.	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	05/20/78-05/20/78	1	10.2	10.2	10.2	10.2	0.	0.	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/20/78-05/20/78	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/20/78-05/20/78	1	52.	52.	52.	52.	0.	0.	**	**	**	**
00607	NITROGEN, ORGANIC, DISSOLVED (MG/L AS N)	05/20/78-05/20/78	1	2.2	2.2	2.2	2.2	0.	0.	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/20/78-05/20/78	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	05/20/78-05/20/78	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	05/20/78-05/20/78	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	05/20/78-05/20/78	1	2.2	2.2	2.2	2.2	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/20/78-05/20/78	1	794.	794.	794.	794.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/20/78-05/20/78	1	54.	54.	54.	54.	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	05/20/78-05/20/78	1	1420.	1420.	1420.	1420.	0.	0.	**	**	**	**
31623	FECAL COLIFORM,MF,MFC MEDIUM,VERIFIED #/100ML	05/20/78-05/20/78	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31623	LOG FECAL COLIFORM,MF,MFC MEDIUM,VERIFIED #/100ML	05/20/78-05/20/78	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31623	GM FECAL COLIFORM,MF,MFC MEDIUM,VERIFIED #/100ML	GEOMETRIC MEAN =			1.								
50787	PHOSPHATE, TOTAL AS P, WATER MG/L	05/20/78-05/20/78	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	05/20/78-05/20/78	1	3613.	3613.	3613.	3613.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: PAIS0154

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------5/01-10/31---------- Obs	Exceed	Prop.	----------11/01-4/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00	1	0	0.00									
00406	PH, FIELD	Fresh Chronic	9.	1	1	1.00	1	1	1.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	1	0	0.00	1	0	0.00									
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	1	0	0.00	1	0	0.00									
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	1	1	1.00	1	1	1.00									
		Drinking Water	250.	1	1	1.00	1	1	1.00									

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

Station Inventory for Station: PAIS0155

NPS Station ID: PAIS0155 LAT/LON: 27.443420/ -97.296060 Agency: 11NPSWRD Date Created: 04/03/99
Location: EPHEMERAL POND 500 FEET SE FROM SEPTIC DRAIN FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): PAIS_HANN_EP4
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 12110203 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110203 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH BIRD ISLAND TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS INSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT AN EPHEMERAL POND 500 FEET SOUTHEAST FROM THE END OF THE SEPTIC TANK DRAIN LINE. DATA ARE FROM A REPORT BY DR. HERBERT H. HANNAN; "A WATER QUALITY AND LIMNOLOGICAL STUDY OF THE SEWAGE SYSTEM-POND COMPLEX AT THE RANGER STATION NORTH PADRE ISLAND TEXAS;" OCTOBER 1978. THE PURPOSE OF THIS STUDY WAS TO CONDUCT "A GENERAL LIMNOLOGICAL SURVEY OF BOTH THE EPHEMERAL AND PERMANENT PONDS AND TO DETERMINE THE INFLUENCE OF THE SEPTIC SYSTEM SERVING THE RANGER STATION ON THE SURROUNDING ENVIRONMENT." FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT PADRE ISLAND NATIONAL SEASHORE; P.O. BOX 181300; CORPUS CHRISTI TX 78480-1300 (TEL. 361-949-8173).
DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL.970-225-3516).

Parameter Inventory for Station: PAIS0155

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/20/78-05/20/78	1	4900.	4900.	4900.	4900.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	05/20/78-05/20/78	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	05/20/78-05/20/78	1	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	05/20/78-05/20/78	1	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/20/78-05/20/78	1	0.079	0.079	0.079	0.079	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/20/78-05/20/78	1	551.	551.	551.	551.	0.	0.	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/20/78-05/20/78	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	05/20/78-05/20/78	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	05/20/78-05/20/78	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/20/78-05/20/78	1	625.	625.	625.	625.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/20/78-05/20/78	1	28.	28.	28.	28.	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	05/20/78-05/20/78	1	991.	991.	991.	991.	0.	0.	**	**	**	**
31623	FECAL COLIFORM,MF,MFC MEDIUM,VERIFIED #/100ML	05/20/78-05/20/78	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31623	LOG FECAL COLIFORM,MF,MFC MEDIUM,VERIFIED #/100ML	05/20/78-05/20/78	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31623	GM FECAL COLIFORM,MF,MFC MEDIUM,VERIFIED #/100ML	GEOMETRIC MEAN =			1.								
50787	PHOSPHATE, TOTAL AS P, WATER MG/L	05/20/78-05/20/78	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	05/20/78-05/20/78	1	2426.	2426.	2426.	2426.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: PAIS0155

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------5/01-10/31---------- Obs	Exceed	Prop.	----------11/01-4/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	0 &	0	0.00												
00406	PH, FIELD	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	1	0	0.00	1	0	0.00									
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	1	0	0.00	1	0	0.00									
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	1	1	1.00	1	1	1.00									
		Drinking Water	250.	1	1	1.00	1	1	1.00									

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

Station Inventory for Station: PAIS0156

NPS Station ID: PAIS0156
LAT/LON: 27.443531/ -97.351503
Agency: 11NPSWRD
Date Created: 06/12/99
Location: STATION 69A IN THE LAGUNA MADRE
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SMEV_69A
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH BIRD ISLAND TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 69A IN THE LAGUNA MADRE. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0156

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/19/75-12/11/75	2	23.45	23.45	28.9	18.	59.405	7.707	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	09/19/75-12/11/75	2	35.25	35.25	36.6	33.9	3.645	1.909	**	**	**	**

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

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

Station Inventory for Station: PAIS0157

NPS Station ID: PAIS0157 LAT/LON: 27.443809/ -97.296199 Agency: 11NPSWRD Date Created: 04/03/99
Location: EPHEMERAL POND 400 FEET SE FROM SEPTIC DRAIN FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): PAIS_HANN_EP3
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 12110203 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110203 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH BIRD ISLAND TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS INSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT AN EPHEMERAL POND 400 FEET SOUTHEAST FROM THE END OF THE SEPTIC TANK DRAIN LINE. DATA ARE FROM A REPORT BY DR. HERBERT H. HANNAN; "A WATER QUALITY AND LIMNOLOGICAL STUDY OF THE SEWAGE SYSTEM-POND COMPLEX AT THE RANGER STATION NORTH PADRE ISLAND TEXAS;" OCTOBER 1978. THE PURPOSE OF THIS STUDY WAS TO CONDUCT "A GENERAL LIMNOLOGICAL SURVEY OF BOTH THE EPHEMERAL AND PERMANENT PONDS AND TO DETERMINE THE INFLUENCE OF THE SEPTIC SYSTEM SERVING THE RANGER STATION ON THE SURROUNDING ENVIRONMENT." FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT PADRE ISLAND NATIONAL SEASHORE; P.O. BOX 181300; CORPUS CHRISTI TX 78480-1300 (TEL. 361-949-8173).
DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL.970-225-3516).

Parameter Inventory for Station: PAIS0157

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/20/78-05/20/78	1	11000.	11000.	11000.	11000.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	05/20/78-05/20/78	1	1.8	1.8	1.8	1.8	0.	0.	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	05/20/78-05/20/78	1	6.8	6.8	6.8	6.8	0.	0.	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	05/20/78-05/20/78	1	6.8	6.8	6.8	6.8	0.	0.	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/20/78-05/20/78	1	0.158	0.158	0.158	0.158	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/20/78-05/20/78	1	72.	72.	72.	72.	0.	0.	**	**	**	**
00607	NITROGEN, ORGANIC, DISSOLVED (MG/L AS N)	05/20/78-05/20/78	1	1.2	1.2	1.2	1.2	0.	0.	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/20/78-05/20/78	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	05/20/78-05/20/78	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	05/20/78-05/20/78	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	05/20/78-05/20/78	1	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/20/78-05/20/78	1	54.	54.	54.	54.	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	05/20/78-05/20/78	1	2950.	2950.	2950.	2950.	0.	0.	**	**	**	**
31623	FECAL COLIFORM,MF,MFC MEDIUM,VERIFIED #/100ML	05/20/78-05/20/78	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31623	LOG FECAL COLIFORM,MF,MFC MEDIUM,VERIFIED #/100ML	05/20/78-05/20/78	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31623	GM FECAL COLIFORM,MF,MFC MEDIUM,VERIFIED #/100ML	GEOMETRIC MEAN =			1.								
50787	PHOSPHATE, TOTAL AS P, WATER MG/L	05/20/78-05/20/78	1	0.13	0.13	0.13	0.13	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	05/20/78-05/20/78	1	6106.	6106.	6106.	6106.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: PAIS0157

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------5/01-10/31---------- Obs	Exceed	Prop.	----------11/01-4/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	1	1.00	1	1	1.00									
00406	PH, FIELD	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	1	0	0.00	1	0	0.00									
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	1	0	0.00	1	0	0.00									
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	1	1	1.00	1	1	1.00									
		Drinking Water	250.	1	1	1.00	1	1	1.00									

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

Station Inventory for Station: PAIS0158

NPS Station ID: PAIS0158 LAT/LON: 27.445142/ -97.294198 Agency: 11NPSWRD Date Created: 04/03/99
Location: PERMANENT POND 700 FEET EAST FROM SEPTIC DRAIN FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): PAIS_HANN_PP1
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 12110203 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110203 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH BIRD ISLAND TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS INSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT A PERMANENT POND 700 FEET EAST FROM THE END OF THE SEPTIC TANK DRAIN LINE. DATA ARE FROM A REPORT BY DR. HERBERT H. HANNAN; "A WATER QUALITY AND LIMNOLOGICAL STUDY OF THE SEWAGE SYSTEM-POND COMPLEX AT THE RANGER STATION NORTH PADRE ISLAND TEXAS;" OCTOBER 1978. THE PURPOSE OF THIS STUDY WAS TO CONDUCT "A GENERAL LIMNOLOGICAL SURVEY OF BOTH THE EPHEMERAL AND PERMANENT PONDS AND TO DETERMINE THE INFLUENCE OF THE SEPTIC SYSTEM SERVING THE RANGER STATION ON THE SURROUNDING ENVIRONMENT." FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT PADRE ISLAND NATIONAL SEASHORE; P.O. BOX 181300; CORPUS CHRISTI TX 78480-1300 (TEL. 361-949-8173).
DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL.970-225-3516).

Parameter Inventory for Station: PAIS0158

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/20/78-05/20/78	1	16000.	16000.	16000.	16000.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	05/20/78-05/20/78	1	5.4	5.4	5.4	5.4	0.	0.	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	05/20/78-05/20/78	1	8.5	8.5	8.5	8.5	0.	0.	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	05/20/78-05/20/78	1	8.5	8.5	8.5	8.5	0.	0.	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/20/78-05/20/78	1	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/20/78-05/20/78	1	287.	287.	287.	287.	0.	0.	**	**	**	**
00607	NITROGEN, ORGANIC, DISSOLVED (MG/L AS N)	05/20/78-05/20/78	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/20/78-05/20/78	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	05/20/78-05/20/78	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	05/20/78-05/20/78	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	05/20/78-05/20/78	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/20/78-05/20/78	1	1638.	1638.	1638.	1638.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/20/78-05/20/78	1	80.	80.	80.	80.	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	05/20/78-05/20/78	1	3100.	3100.	3100.	3100.	0.	0.	**	**	**	**
31623	FECAL COLIFORM,MF,MFC MEDIUM,VERIFIED #/100ML	05/20/78-05/20/78	1	19.	19.	19.	19.	0.	0.	**	**	**	**
31623	LOG FECAL COLIFORM,MF,MFC MEDIUM,VERIFIED #/100ML	05/20/78-05/20/78	1	1.279	1.279	1.279	1.279	0.	0.	**	**	**	**
31623	GM FECAL COLIFORM,MF,MFC MEDIUM,VERIFIED #/100ML	GEOMETRIC MEAN =			19.								
32230	CHLOROPHYLL A (MG/L)	08/18/78-08/18/78	1	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
50787	PHOSPHATE, TOTAL AS P, WATER MG/L	05/20/78-05/20/78	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**

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

Parameter Inventory for Station: PAIS0158

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	05/20/78-05/20/78	1	6921.	6921.	6921.	6921.	0.	0.	**	**	**	**
70961	PRODUCTIVITY, PRIMARY, GROSS (MGC/CU M/DAY)	08/18/78-08/18/78	1	5100.	5100.	5100.	5100.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: PAIS0158

				Total	Exceed	Prop.	----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------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									
00406	PH, FIELD	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	1	0	0.00	1	0	0.00									
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	1	0	0.00	1	0	0.00									
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	1	1	1.00	1	1	1.00									
		Drinking Water	250.	1	1	1.00	1	1	1.00									

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

Station Inventory for Station: PAIS0159

NPS Station ID: PAIS0159 LAT/LON: 27.445837/ -97.295587 Agency: 11NPSWRD Date Created: 04/03/99
Location: EPHEMERAL POND 500 FEET NE OF SEPTIC DRAIN FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): PAIS_HANN_EP5
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 12110203 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110203 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH BIRD ISLAND TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS INSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT AN EPHEMERAL POND 500 FEET NORTHEAST FROM THE END OF THE SEPTIC TANK DRAIN LINE. DATA ARE FROM A REPORT BY DR. HERBERT H. HANNAN; "A WATER QUALITY AND LIMNOLOGICAL STUDY OF THE SEWAGE SYSTEM-POND COMPLEX AT THE RANGER STATION NORTH PADRE ISLAND TEXAS;" OCTOBER 1978. THE PURPOSE OF THIS STUDY WAS TO CONDUCT "A GENERAL LIMNOLOGICAL SURVEY OF BOTH THE EPHEMERAL AND PERMANENT PONDS AND TO DETERMINE THE INFLUENCE OF THE SEPTIC SYSTEM SERVING THE RANGER STATION ON THE SURROUNDING ENVIRONMENT." FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT PADRE ISLAND NATIONAL SEASHORE; P.O. BOX 181300; CORPUS CHRISTI TX 78480-1300 (TEL. 361-949-8173).
DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL.970-225-3516).

Parameter Inventory for Station: PAIS0159

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/20/78-05/20/78	1	2800.	2800.	2800.	2800.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	05/20/78-05/20/78	1	1.4	1.4	1.4	1.4	0.	0.	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	05/20/78-05/20/78	1	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	05/20/78-05/20/78	1	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/20/78-05/20/78	1	0.079	0.079	0.079	0.079	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/20/78-05/20/78	1	241.	241.	241.	241.	0.	0.	**	**	**	**
00607	NITROGEN, ORGANIC, DISSOLVED (MG/L AS N)	05/20/78-05/20/78	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/20/78-05/20/78	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	05/20/78-05/20/78	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	05/20/78-05/20/78	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	05/20/78-05/20/78	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/20/78-05/20/78	1	402.	402.	402.	402.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/20/78-05/20/78	1	23.	23.	23.	23.	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	05/20/78-05/20/78	1	672.	672.	672.	672.	0.	0.	**	**	**	**
31623	FECAL COLIFORM,MF,MFC MEDIUM,VERIFIED #/100ML	05/20/78-05/20/78	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31623	LOG FECAL COLIFORM,MF,MFC MEDIUM,VERIFIED #/100ML	05/20/78-05/20/78	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31623	GM FECAL COLIFORM,MF,MFC MEDIUM,VERIFIED #/100ML	GEOMETRIC MEAN =			1.								
50787	PHOSPHATE, TOTAL AS P, WATER MG/L	05/20/78-05/20/78	1	0.09	0.09	0.09	0.09	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	05/20/78-05/20/78	1	1478.	1478.	1478.	1478.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: PAIS0159

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------5/01-10/31---------- Obs	Exceed	Prop.	----------11/01-4/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	1	1.00	1	1	1.00									
00406	PH, FIELD	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	1	0	0.00	1	0	0.00									
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	1	0	0.00	1	0	0.00									
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
		Drinking Water	250.	1	1	1.00	1	1	1.00									

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

Station Inventory for Station: PAIS0160

NPS Station ID: PAIS0160 LAT/LON: 27.448059/ -97.330559 Agency: 21TXDOH Date Created: 03/24/79
Location: LAGUNA MADRE,3 MI SO OF SO BIRD ISLAND FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): LAG00187
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 12110203 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: RIO GRANDE LOWER BELOW PECOS RIVER ECO Region:
RF1 Index: 12110203 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110203000300.00 RF3 Mile Point: 45.08 Distance from RF3: 0.34 On/Off RF3:
Description:
DATA FROM TEXAS STATE DEPARTMENT OF HEALTH FISH AND SHELLFISH SAMPLES ANALYZED FOR TOXICS SAMPLE TAKEN FROM LAGUNA MADRE,3 MILES SO OF SOUTH BIRD ISLAND OFF COAST OF PADRE ISLAND

Parameter Inventory for Station: PAIS0160

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/01/78-06/01/78	11	1992.	1793.273	2023.	1421.	86561.618	294.214	1421.2	1423.	2021.	2022.8
00024	SAMPLE LENGTH IN INCHES	06/01/78-06/01/78	11	14.	14.273	17.	11.	2.618	1.618	11.6	14.	14.	17.
71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	06/01/78-06/01/78	11	0.17	0.236	0.56	0.07	0.025	0.157	0.072	0.1	0.38	0.526
81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	06/01/78-06/01/78	2	1.	1.	1.	1.	0.	0.	**	**	**	**

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

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

Station Inventory for Station: PAIS0161

NPS Station ID: PAIS0161 LAT/LON: 27.448392/ -97.295449 Agency: 11NPSWRD Date Created: 04/03/99
Location: EPHEMERAL POND 0.25 MILE NNW OF RANGER STATION FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): PAIS_HANN_EP1
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 12110203 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110203 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH BIRD ISLAND TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS INSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THE SITE IS A HAND DUG WELL AT A DRY POND NORTH-NORTHWEST OF THE RANGER STATION. DATA ARE FROM A REPORT BY DR. HERBERT H. HANNAN; "A WATER QUALITY AND LIMNOLOGICAL STUDY OF THE SEWAGE SYSTEM-POND COMPLEX AT THE RANGER STATION NORTH PADRE ISLAND TEXAS;" OCTOBER 1978. THE PURPOSE OF THIS STUDY WAS TO CONDUCT "A GENERAL LIMNOLOGICAL SURVEY OF BOTH THE EPHEMERAL AND PERMANENT PONDS AND TO DETERMINE THE INFLUENCE OF THE SEPTIC SYSTEM SERVING THE RANGER STATION ON THE SURROUNDING ENVIRONMENT." FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT PADRE ISLAND NATIONAL SEASHORE; P.O. BOX 181300 CORPUS CHRISTI TX 78480-1300 (TEL. 361-949-8173). DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL.970-225-3516).

Parameter Inventory for Station: PAIS0161

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/20/78-05/20/78	1	1450.	1450.	1450.	1450.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	05/20/78-05/20/78	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	05/20/78-05/20/78	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	05/20/78-05/20/78	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/20/78-05/20/78	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/20/78-05/20/78	1	110.	110.	110.	110.	0.	0.	**	**	**	**
00607	NITROGEN, ORGANIC, DISSOLVED (MG/L AS N)	05/20/78-05/20/78	1	2.2	2.2	2.2	2.2	0.	0.	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/20/78-05/20/78	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	05/20/78-05/20/78	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	05/20/78-05/20/78	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	05/20/78-05/20/78	1	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/20/78-05/20/78	1	211.	211.	211.	211.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/20/78-05/20/78	1	14.	14.	14.	14.	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	05/20/78-05/20/78	1	353.	353.	353.	353.	0.	0.	**	**	**	**
31623	FECAL COLIFORM,MF,MFC MEDIUM,VERIFIED #/100ML	05/20/78-05/20/78	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31623	LOG FECAL COLIFORM,MF,MFC MEDIUM,VERIFIED #/100ML	05/20/78-05/20/78	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31623	GM FECAL COLIFORM,MF,MFC MEDIUM,VERIFIED #/100ML	GEOMETRIC MEAN =			1.								
50787	PHOSPHATE, TOTAL AS P, WATER MG/L	05/20/78-05/20/78	1	0.22	0.22	0.22	0.22	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	05/20/78-05/20/78	1	927.	927.	927.	927.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: PAIS0161

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------5/01-10/31---------- Obs	Exceed	Prop.	----------11/01-4/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	1	1.00	1	1	1.00									
00406	PH, FIELD	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	1	0	0.00	1	0	0.00									
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	1	0	0.00	1	0	0.00									
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
		Drinking Water	250.	1	1	1.00	1	1	1.00									

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

Station Inventory for Station: PAIS0162

NPS Station ID: PAIS0162 LAT/LON: 27.450004/ -97.316670 Agency: 21TXDOH Date Created: 03/24/79
Location: LAGUNA MADRE,2 MILES SOUTH OF SOUTH BIRD ISLAND FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): LAG00185
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 12110203 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: RIO GRANDE LOWER BELOW PECOS RIVER ECO Region:
RF1 Index: 12110203003 RF1 Mile Point: 46.190 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 12110205001602.15 RF3 Mile Point: 10.14 Distance from RF3: 0.06 On/Off RF3:
Description:
DATA FROM TEXAS STATE DEPARTMENT OF HEALTH FISH AND SHELLFISH SAMPLES ANALYZED FOR TOXICS SAMPLE TAKEN FROM
LAGUNA MADRE,2 MILES SOUTH OF SOUTH BIRD ISLAND

Parameter Inventory for Station: PAIS0162

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: PAIS0163

NPS Station ID: PAIS0163
LAT/LON: 27.454699/ -97.325699
Agency: 11NPSWRD
Date Created: 06/12/99
Location: STATION 64B IN THE LAGUNA MADRE
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SMEV_64B
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH BIRD ISLAND TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS INSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 64B IN THE LAGUNA MADRE. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT PADRE ISLAND NATIONAL SEASHORE; P.O. BOX 181300; CORPUS CHRISTI TX 78480-1300 (TEL. 361-949-8173). DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0163

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/19/75-09/19/75	1	28.2	28.2	28.2	28.2	0.	0.	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	09/19/75-09/19/75	1	34.9	34.9	34.9	34.9	0.	0.	**	**	**	**

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

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

Station Inventory for Station: PAIS0164

NPS Station ID: PAIS0164
LAT/LON: 27.455642/ -97.328254
Agency: 11NPSWRD
Date Created: 06/12/99
Location: STATION 64A IN THE LAGUNA MADRE
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SMEV_64A
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH BIRD ISLAND TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS INSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 64A IN THE LAGUNA MADRE. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT PADRE ISLAND NATIONAL SEASHORE; P.O. BOX 181300; CORPUS CHRISTI TX 78480-1300 (TEL. 361-949-8173). DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0164

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/19/75-09/19/75	1	28.6	28.6	28.6	28.6	0.	0.	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	09/19/75-09/19/75	1	34.4	34.4	34.4	34.4	0.	0.	**	**	**	**

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

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

Station Inventory for Station: PAIS0165

NPS Station ID: PAIS0165 LAT/LON: 27.460671/ -97.287615 Agency: 11NPSWRD Date Created: 06/12/99
Location: POND NEAR RANGER STATION (PADRE ISLAND 1) FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): PAIS_TNRCC_P1
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 12110203 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110203 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH BIRD ISLAND TEXAS-KLEBERG COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS INSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS A POND NEAR THE RANGER STATION. DATA ARE FROM THE TEXAS NATURAL RESOURCE CONSERVATION COMMISSION; P.O. BOX 13087; AUSTIN TX 78711-3087. WATER QUALITY DATA WERE COLLECTED AT EIGHT DIFFERENT MONITORING STATIONS IN THE CORPUS CHRISTI AREA. FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT PADRE ISLAND NATIONAL SEASHORE; P.O. BOX 181300; CORPUS CHRISTI TX 78480-1300 (TEL. 361-949-8173). DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0165

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/08/98-04/09/98	2	25.5	25.5	26.5	24.5	2.	1.414	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/08/98-04/09/98	2	423.5	423.5	428.	419.	40.5	6.364	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	04/08/98-04/09/98	2	4.3	4.3	5.4	3.2	2.42	1.556	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	04/08/98-04/08/98	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00340	COD, .25N K2CR2O7 MG/L	04/08/98-04/08/98	1	63.	63.	63.	63.	0.	0.	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	04/08/98-04/09/98	2	7.505	7.505	7.78	7.23	0.151	0.389	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	04/08/98-04/09/98	2	7.423	7.423	7.78	7.23	0.165	0.406	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/08/98-04/09/98	2	0.038	0.038	0.059	0.017	0.001	0.03	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/08/98-04/08/98	1	310.	310.	310.	310.	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/08/98-04/08/98	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	04/08/98-04/08/98	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/08/98-04/08/98	1	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/08/98-04/08/98	1	0.83	0.83	0.83	0.83	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/08/98-04/08/98	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/08/98-04/08/98	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/08/98-04/08/98	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	04/08/98-04/08/98	1	24.	24.	24.	24.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	04/08/98-04/08/98	1	82.	82.	82.	82.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	04/08/98-04/08/98	1	6.	6.	6.	6.	0.	0.	**	**	**	**
32213	PHEOPHYTIN-A,FLUORIMETRIC METHOD (UG/L)	04/08/98-04/08/98	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	04/08/98-04/08/98	1	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/08/98-04/08/98	1	246.	246.	246.	246.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: PAIS0165

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------5/01-10/31---------- Obs	Exceed	Prop.	----------11/01-4/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	2	1	0.50				2	1	0.50						
00406	PH, FIELD	Fresh Chronic	9.	2	0	0.00				2	0	0.00						
		Other-Lo Lim.	6.5	2	0	0.00				2	0	0.00						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	1	0	0.00				1	0	0.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00				1	0	0.00						
		Drinking Water	250.	1	0	0.00				1	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: PAIS0166

NPS Station ID: PAIS0166 LAT/LON: 27.460837/ -97.330227 Agency: 11NPSWRD Date Created: 06/12/99
Location: BEACON 63 ON THE INTRACOASTAL WATERWAY FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): PAIS_SMEV_63
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110203 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110203 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH BIRD ISLAND TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT BEACON 63 ON THE INTRACOASTAL WATERWAY. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0166

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/19/75-01/14/76	3	17.5	20.633	29.4	15.	59.203	7.694	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	12/11/75-01/14/76	2	33.85	33.85	35.8	31.9	7.605	2.758	**	**	**	**

** - Less than 9 observations ## - 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: PAIS0167

NPS Station ID: PAIS0167 LAT/LON: 27.460948/ -97.330338 Agency: 11NPSWRD Date Created: 04/17/99
Location: LIGHT 63 ON THE INTRACOASTAL WATERWAY FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): PAIS_CONO_63
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110203 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110203 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH BIRD ISLAND TEXAS-KLEBERG COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT LIGHT 63 ON THE INTRACOASTAL WATERWAY. DATA WERE COLLECTED ALONG A TRANSECT PERPENDICULAR TO THE WATERWAY AND AVERAGED FOR THE MONTH. DATA ARE FROM A REPORT BY JOHN T. CONOVER; "THE ECOLOGY; SEASONAL PERIODICITY; AND DISTRIBUTION OF BENTHIC PLANTS IN SOME TEXAS LAGOONS;" OCTOBER 1963. THE PURPOSE OF THIS REPORT WAS TO "STUDY THE LOCAL EFFECTS OF LIGHT; TEMPERATURE; AND SALINITY ON THE SEASONAL GROWTH OF PLANTS." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0167

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: PAIS0168

NPS Station ID: PAIS0168
LAT/LON: 27.460976/ -97.329588
Agency: 11NPSWRD
Date Created: 04/17/99
Location: LIGHT 63 ON INTRACOASTAL WATERWAY
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_ICW_63
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH BIRD ISLAND TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT BEACON LIGHT 63 ON THE INTRACOASTAL WATERWAY. DATA ARE FROM A REPORT BY JIM BOWMAN OF THE TEXAS WATER QUALITY BOARD; "DOMESTIC WASTE IN LAGUNA MADRE FROM HOUSES ON SPOIL ISLAND;" JULY 1972. THE PURPOSE OF THIS REPORT WAS TO INVESTIGATE "THE POLLUTION OF THE LAGUNA MADRE FROM DOMESTIC WASTE COMING FROM A NUMBER OF "SQUATTER" CABINS LOCATED ON SPOIL ISLANDS IN THE LAGUNA MADRE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0168

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/07/72-07/07/72	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	07/07/72-07/07/72	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			1.								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/07/72-07/07/72	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/07/72-07/07/72	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			1.								

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

EPA Water Quality Criteria Analysis for Station: PAIS0168

						----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	1	0	0.00	1	0	0.00									
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: PAIS0169

NPS Station ID: PAIS0169
LAT/LON: 27.461865/ -97.322143
Agency: 11NPSWRD
Date Created: 06/12/99
Location: STATION 62A IN THE LAGUNA MADRE
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SMEV_62A
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH BIRD ISLAND TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS INSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 62A IN THE LAGUNA MADRE. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT PADRE ISLAND NATIONAL SEASHORE; P.O. BOX 181300; CORPUS CHRISTI TX 78480-1300 (TEL. 361-949-8173). DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0169

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/19/75-09/19/75	1	28.3	28.3	28.3	28.3	0.	0.	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	09/19/75-09/19/75	1	34.6	34.6	34.6	34.6	0.	0.	**	**	**	**

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

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

Station Inventory for Station: PAIS0170

NPS Station ID: PAIS0170
LAT/LON: 27.464865/ -97.338588
Agency: 11NPSWRD
Date Created: 06/12/99
Location: STATION 63B IN THE LAGUNA MADRE
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SMEV_63B
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH BIRD ISLAND TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 63B IN THE LAGUNA MADRE. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0170

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/19/75-09/19/75	1	28.8	28.8	28.8	28.8	0.	0.	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	09/19/75-09/19/75	1	35.1	35.1	35.1	35.1	0.	0.	**	**	**	**

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

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

Station Inventory for Station: PAIS0171

NPS Station ID: PAIS0171
LAT/LON: 27.465365/ -97.316893
Agency: 11NPSWRD
Date Created: 06/12/99
Location: STATION 61B IN THE LAGUNA MADRE
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SMEV_61B
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH BIRD ISLAND TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS INSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 61B IN THE LAGUNA MADRE. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT PADRE ISLAND NATIONAL SEASHORE; P.O. BOX 181300; CORPUS CHRISTI TX 78480-1300 (TEL. 361-949-8173). DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0171

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/19/75-09/19/75	1	28.1	28.1	28.1	28.1	0.	0.	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	09/19/75-09/19/75	1	35.5	35.5	35.5	35.5	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: PAIS0172

NPS Station ID: PAIS0172
LAT/LON: 27.466170/ -97.298866
Agency: 11NPSWRD
Date Created: 04/03/99
Location: POND A NEAR BIRD ISLAND ROAD
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): PAIS_SISS_PA
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH BIRD ISLAND TEXAS-KLEBERG CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS INSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT POND A LOCATED ON THE SOUTH SIDE OF BIRD ISLAND ROAD. DATA ARE FROM A REPORT BY DR. STANLEY L. SISSOM; "A BASELINE STUDY OF THREE PONDS WITHIN THE PADRE ISLAND NATIONAL PARK;" DECEMBER 1990. THE STUDY "INVESTIGATES THE MANY ASPECTS OF THESE THREE PONDS IN ORDER TO ESTABLISH A FOUNDATION... FOR FURTHER STUDIES." THE DATE WAS ASSUMED TO BE THE 15TH OF EACH MONTH. FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT PADRE ISLAND NATIONAL SEASHORE; P.O. BOX 181300; CORPUS CHRISTI TX 78480-1300 (TEL. 361-949-8173). DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0172

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/15/89-08/15/90	12	29.25	25.125	33.	13.	58.642	7.658	13.	16.75	30.	33.
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/15/89-08/15/90	12	22.5	29.958	70.	10.	391.748	19.793	10.6	15.75	40.125	68.5
00300	OXYGEN, DISSOLVED MG/L	09/15/89-08/15/90	12	7.75	7.7	12.	3.6	4.824	2.196	4.14	5.95	9.125	11.28
00406	PH, FIELD, STANDARD UNITS SU	09/15/89-08/15/90	12	8.35	8.35	8.8	8.	0.05	0.224	8.03	8.2	8.5	8.71
00406	CONVERTED PH, FIELD, STANDARD UNITS	09/15/89-08/15/90	12	8.347	8.3	8.8	8.	0.053	0.23	8.03	8.2	8.5	8.71
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/15/89-08/15/90	12	0.004	0.005	0.01	0.002	0.	0.002	0.002	0.003	0.006	0.009
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	10/15/89-08/15/90	11	252.	236.455	298.	120.	3543.473	59.527	123.6	204.	288.	297.2
00480	SALINITY - PARTS PER THOUSAND	09/15/89-08/15/90	12	0.3	0.325	0.6	0.1	0.028	0.166	0.13	0.2	0.475	0.6
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/15/89-02/15/90	2	6.855	6.855	9.6	4.11	15.07	3.882	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	02/15/90-02/15/90	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	09/15/89-02/15/90	2	0.175	0.175	0.22	0.13	0.004	0.064	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	09/15/89-09/15/89	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/15/89-09/15/89	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/15/89-09/15/89	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	09/15/89-09/15/89	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	09/15/89-09/15/89	1	380.	380.	380.	380.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	09/15/89-09/15/89	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	09/15/89-09/15/89	1	1360.	1360.	1360.	1360.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	09/15/89-09/15/89	1	30.	30.	30.	30.	0.	0.	**	**	**	**
03582	OIL AND GREASE, WATER, TOTAL MG/L	09/15/89-09/15/89	1	29.37	29.37	29.37	29.37	0.	0.	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	09/15/89-09/15/89	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: PAIS0172

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------5/01-10/31---------- Obs	Exceed	Prop.	----------11/01-4/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	12	2	0.17	6	1	0.17	6	1	0.17						
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	12	1	0.08	6	1	0.17	6	0	0.00						
00406	PH, FIELD	Fresh Chronic	9.	12	0	0.00	6	0	0.00	6	0	0.00						
		Other-Lo Lim.	6.5	12	0	0.00	6	0	0.00	6	0	0.00						
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	2	0	0.00	1	0	0.00	1	0	0.00						
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	0 &	0	0.00												
		Drinking Water	5.	0 &	0	0.00												
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00	1	0	0.00									
		Drinking Water	15.	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									
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									

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

Station Inventory for Station: PAIS0173

NPS Station ID: PAIS0173 LAT/LON: 27.466448/ -97.298837 Agency: 11NPSWRD Date Created: 04/03/99
Location: PERMANENT POND BESIDE BIRD ISLAND ROAD FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): PAIS_HANN_PP7
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 12110203 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110203 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH BIRD ISLAND TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS INSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT A PERMANENT POND BESIDE BIRD ISLAND ROAD. DATA ARE FROM A REPORT BY DR. HERBERT H. HANNAN; "A WATER QUALITY AND LIMNOLOGICAL STUDY OF THE SEWAGE SYSTEM-POND COMPLEX AT THE RANGER STATION NORTH PADRE ISLAND TEXAS;" OCTOBER 1978. THE PURPOSE OF THIS STUDY WAS TO CONDUCT "A GENERAL LIMNOLOGICAL SURVEY OF BOTH THE EPHEMERAL AND PERMANENT PONDS AND TO DETERMINE THE INFLUENCE OF THE SEPTIC SYSTEM SERVING THE RANGER STATION ON THE SURROUNDING ENVIRONMENT." FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT PADRE ISLAND NATIONAL SEASHORE; P.O. BOX 181300; CORPUS CHRISTI TX 78480-1300 (TEL. 361-949-8173). DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL.970-225-3516).

Parameter Inventory for Station: PAIS0173

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
32230	CHLOROPHYLL A (MG/L)	08/18/78-08/18/78	1	0.027	0.027	0.027	0.027	0.	0.	**	**	**	**
70961	PRODUCTIVITY, PRIMARY, GROSS (MGC/CU M/DAY)	08/18/78-08/18/78	1	11000.	11000.	11000.	11000.	0.	0.	**	**	**	**

** - Less than 9 observations ## - 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: PAIS0174

NPS Station ID: PAIS0174
LAT/LON: 27.467003/ -97.321559
Agency: 11NPSWRD
Date Created: 06/12/99
Location: STATION 61A IN THE LAGUNA MADRE
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SMEV_61A
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH BIRD ISLAND TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS INSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 61A IN THE LAGUNA MADRE. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT PADRE ISLAND NATIONAL SEASHORE; P.O. BOX 181300; CORPUS CHRISTI TX 78480-1300 (TEL. 361-949-8173). DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0174

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/19/75-09/19/75	1	28.4	28.4	28.4	28.4	0.	0.	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	09/19/75-09/19/75	1	34.7	34.7	34.7	34.7	0.	0.	**	**	**	**

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

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

Station Inventory for Station: PAIS0175

NPS Station ID: PAIS0175
LAT/LON: 27.467226/ -97.334670
Agency: 21TXWQB
Date Created: 06/28/97
Location: LAGUNA MADRE OFF ICW CM 123
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): 15006 /2491.7800
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin: Bays and Estuaries
ECO Region: 34M
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
LAGUNA MADRE APPROXIMATELY 0.5 MI. WEST OF ICWW MARKER 123

Parameter Inventory for Station: PAIS0175

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	11/18/93-09/27/94	47	3.	3.106	6.	1.	4.228	2.056	1.	1.	5.	6.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/18/93-09/27/94	28	25.3	23.754	30.6	13.1	26.949	5.191	16.81	19.	27.975	30.15
00078	TRANSPARENCY, SECCHI DISC (METERS)	11/18/93-09/27/94	20	0.3	0.44	1.	0.05	0.101	0.318	0.105	0.213	0.5	1.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/18/93-09/27/94	38	53450.	54384.211	67600.	45500.	45092716.927	6715.111	47200.	47850.	60900.	65850.
00300	OXYGEN, DISSOLVED MG/L	11/18/93-09/27/94	35	7.	6.837	9.1	4.1	1.823	1.35	5.	5.6	7.9	8.54
00400	PH (STANDARD UNITS)	11/18/93-09/27/94	37	8.34	8.352	8.96	7.53	0.084	0.29	8.036	8.145	8.515	8.81
00400	CONVERTED PH (STANDARD UNITS)	11/18/93-09/27/94	37	8.34	8.251	8.96	7.53	0.095	0.307	8.036	8.145	8.515	8.81
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/18/93-09/27/94	37	0.005	0.006	0.03	0.001	0.	0.005	0.002	0.003	0.007	0.009
00480	SALINITY - PARTS PER THOUSAND	11/18/93-09/27/94	28	34.65	35.521	46.	29.4	22.892	4.785	30.58	31.05	36.95	43.02
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	11/18/93-09/27/94	20 ##	1.5	2.25	17.	1.	12.224	3.496	1.	1.5	1.5	2.85
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	11/18/93-09/27/94	20 ##	0.176	0.209	1.23	0.	0.069	0.262	0.	0.176	0.176	0.447
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			1.617								
72053	DAYS SINCE PRECIPITATION EVENT DAYS	11/18/93-09/27/94	20	5.	4.	5.	0.5	3.421	1.85	0.5	3.5	5.	5.

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

EPA Water Quality Criteria Analysis for Station: PAIS0175

				Total	Exceed	Prop.	----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------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.	35	0	0.00	18	0	0.00	17	0	0.00						
00400	PH	Marine Chronic	8.5	37	11	0.30	18	11	0.61	19	0	0.00						
		Other-Lo Lim.	6.5	37	0	0.00	18	0	0.00	19	0	0.00						
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	20	0	0.00	10	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: PAIS0176

NPS Station ID: PAIS0176 LAT/LON: 27.468837/ -97.326142 Agency: 11NPSWRD Date Created: 06/12/99
Location: MARKER 61 ON THE INTRACOASTAL WATERWAY FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): PAIS_SMEV_61
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110203 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110203 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH BIRD ISLAND TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT MARKER 61 ON THE INTRACOASTAL WATERWAY. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0176

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/19/75-09/19/75	1	28.4	28.4	28.4	28.4	0.	0.	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	09/19/75-09/19/75	1	34.9	34.9	34.9	34.9	0.	0.	**	**	**	**

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

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

Station Inventory for Station: PAIS0177

NPS Station ID: PAIS0177
LAT/LON: 27.468948/ -97.348143
Agency: 11NPSWRD
Date Created: 06/12/99
Location: STATION 63A IN THE LAGUNA MADRE
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SMEV_63A
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH BIRD ISLAND TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 63A IN THE LAGUNA MADRE. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0177

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/19/75-09/19/75	1	28.7	28.7	28.7	28.7	0.	0.	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	09/19/75-09/19/75	1	35.4	35.4	35.4	35.4	0.	0.	**	**	**	**

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

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

Station Inventory for Station: PAIS0178

NPS Station ID: PAIS0178
LAT/LON: 27.474392/ -97.317143
Agency: 11NPSWRD
Date Created: 06/12/99
Location: STATION 59A IN THE LAGUNA MADRE
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SMEV_59A
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH BIRD ISLAND TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS INSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 59A IN THE LAGUNA MADRE. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT PADRE ISLAND NATIONAL SEASHORE; P.O. BOX 181300; CORPUS CHRISTI TX 78480-1300 (TEL. 361-949-8173). DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0178

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/02/75-09/02/75	1	29.	29.	29.	29.	0.	0.	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	09/02/75-09/02/75	1	36.5	36.5	36.5	36.5	0.	0.	**	**	**	**

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

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

Station Inventory for Station: PAIS0179

NPS Station ID: PAIS0179
LAT/LON: 27.475115/ -97.332281
Agency: 11NPSWRD
Date Created: 03/06/99
Location: NORTH LAGUNA MADRE
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_CONO_NLM
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH BIRD ISLAND TEXAS-KLEBERG COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT NORTH LAGUNA MADRE. DATA WERE COLLECTED ALONG SEVERAL TRANSECTS IN THE NORTH LAGUNA MADRE. THIS SITE IS CENTRALLY LOCATED TO ALL THE TRANSECTS AND AVERAGED FOR THE MONTH. DATA ARE FROM A REPORT BY JOHN T. CONOVER; "THE ECOLOGY; SEASONAL PERIODICITY; AND DISTRIBUTION OF BENTHIC PLANTS IN SOME TEXAS LAGOONS;" OCTOBER 1963. THE PURPOSE OF THIS REPORT WAS TO "STUDY THE LOCAL EFFECTS OF LIGHT; TEMPERATURE; AND SALINITY ON THE SEASONAL GROWTH OF PLANTS." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0179

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: PAIS0180

NPS Station ID: PAIS0180 LAT/LON: 27.476337/ -97.322282 Agency: 11NPSWRD Date Created: 06/12/99
Location: MARKER 59 ON THE INTRACOASTAL WATERWAY FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): PAIS_SMEV_59
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110203 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110203 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH BIRD ISLAND TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT MARKER 59 ON THE INTRACOASTAL WATERWAY. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0180

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/02/75-09/02/75	1	28.3	28.3	28.3	28.3	0.	0.	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	09/02/75-09/02/75	1	36.6	36.6	36.6	36.6	0.	0.	**	**	**	**

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

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

Station Inventory for Station: PAIS0181

NPS Station ID: PAIS0181 LAT/LON: 27.479170/ -97.320837 Agency: 21TEXWR Date Created: 12/15/79
Location: LAGUNA MADRE INTRACOASTAL WATERWAY MARKER 59 FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/OCEAN STORET Station ID(s): 24910200
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110203 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: RIO GRANDE LOWER BELOW PECOS RIVER ECO Region:
RF1 Index: 12110203 RF1 Mile Point: 0.000 Distance from RF1: 14.70 On/Off RF1:
RF3 Index: 12110203044600.00 RF3 Mile Point: 0.00 Distance from RF3: 0.33 On/Off RF3:
Description:

Parameter Inventory for Station: PAIS0181

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/02/74-06/06/78	10	22.95	23.4	30.5	12.5	34.602	5.882	12.91	19.525	28.625	30.35
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	10/02/74-06/06/78	9	83.3	79.878	86.9	68.9	40.694	6.379	68.9	73.3	84.2	86.9
00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/17/74-10/02/74	2	10.	10.	10.	10.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/09/74-04/06/77	9	50500.	43622.222	54000.	31700.	97989444.444	9898.962	31700.	32200.	52000.	54000.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/08/75-07/06/77	11	60250.	58041.636	68000.	41000.	56520941.455	7518.041	42800.	53000.	62380.	67100.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	04/09/74-06/06/78	13	7.2	7.531	9.9	5.5	1.701	1.304	5.7	6.6	8.65	9.54
00400	PH (STANDARD UNITS)	10/02/74-07/06/77	5	8.2	8.16	8.3	7.85	0.032	0.178	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/02/74-07/06/77	5	8.2	8.126	8.3	7.85	0.033	0.182	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/02/74-07/06/77	5	0.006	0.007	0.014	0.005	0.	0.004	**	**	**	**
00544	RESIDUE, VOLATILE SETTLEABLE (MG/L)	04/26/76-04/26/76	1	31474.	31474.	31474.	31474.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	01/06/76-01/06/76	1	0.053	0.053	0.053	0.053	0.	0.	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/17/74-03/09/78	7	2.	2.	2.	2.	0.	0.	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	07/17/74-03/09/78	7	0.301	0.301	0.301	0.301	0.	0.	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			2.								
32222	CHLOROPHYLL A IN BOTTOM DEPOSITS (UG/KG DRY WGT)	10/07/76-06/06/78	8 ##	0.003	0.003	0.005	0.002	0.	0.001	**	**	**	**
39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	04/09/75-04/26/76	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	04/09/75-04/26/76	2 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	04/09/75-04/26/76	2 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	04/09/75-04/26/76	2 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	04/09/75-04/26/76	2 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	04/09/75-04/26/76	2 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	04/09/75-04/26/76	2 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	04/09/75-04/26/76	2 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	04/09/75-04/26/76	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	04/09/75-04/26/76	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	04/09/75-04/26/76	2 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
39541	PARATHION IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	04/09/75-04/26/76	2 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
39571	DIAZINON IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	04/09/75-04/26/76	2 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
39601	METHYL PARATHION IN BOT. DEPOS.(UG/KG DRY SOLIDS)	04/09/75-04/26/76	2 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
39761	SILVEX IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	04/09/75-04/26/76	2 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
39783	LINDANE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	04/09/75-04/26/76	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
70211	TIDE, HIGH OR LOW,BEFORE OR AFTER,HOUR,MINUTE	04/09/74-07/17/74	2	2.	2.	2.	2.	0.	0.	**	**	**	**
70295	RESIDUE,TOTAL FILTRABLE (DRIED AT ANY TEMP),MG/L	10/23/73-06/06/78	43	24000.	22308.14	32500.	7250.	31298086.932	5594.469	15500.	17250.	26250.	27000.
70322	SOLIDS, VOLATILE, PERCENT OF TOTAL SOLIDS	10/23/73-07/06/77	3	8.4	7.233	11.1	2.2	20.823	4.563	**	**	**	**
70505	PHOSPHATE,TOTAL,COLORIMETRIC METHOD (MG/L AS P)	04/09/75-07/07/75	2	0.115	0.115	0.15	0.08	0.002	0.049	**	**	**	**
80106	PHOSPHORUS IN PARTICULATES (MG/KG DRY WT)	10/23/73-01/08/75	2	900.	900.	1600.	200.	980000.	989.949	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: PAIS0181

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------5/01-10/31---------- Obs	Exceed	Prop.	----------11/01-4/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	2	0	0.00	1	0	0.00	1	0	0.00						
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	13	0	0.00	6	0	0.00	7	0	0.00						
00400	PH	Marine Chronic	8.5	5	0	0.00	5	0	0.00									
		Other-Lo Lim.	6.5	5	0	0.00	5	0	0.00									
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	7	0	0.00	3	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: PAIS0182

NPS Station ID: PAIS0182
LAT/LON: 27.479170/ -97.320837
Agency: 21TXWQB
Date Created: 07/23/94
Location: LAGUNA MADRE ICWW/BIRD ISLAND
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): 13445 /2491.0200 /2491.2000
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin: Bays and Estuaries
ECO Region: 34M
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
LAGUNA MADRE AT ICWW NEAR BIRD ISLAND

Parameter Inventory for Station: PAIS0182

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/23/73-07/29/96	331	5.	6.834	18.	0.	26.915	5.188	1.	1.	10.	15.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/23/73-07/29/96	187	24.	23.152	32.1	8.1	35.786	5.982	14.88	18.3	28.8	30.5
00011p	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	10/23/73-11/14/85	79	74.5	73.452	89.6	48.2	112.607	10.612	58.8	64.4	83.8	85.3
00070	TURBIDITY, (JACKSON CANDLE UNITS)	10/23/73-12/05/77	13	10.	12.154	30.	0.	98.641	9.932	0.	5.	19.5	30.
00077	TRANSPARENCY, SECCHI DISC (INCHES)	01/11/77-04/17/89	39	48.	49.333	96.	10.	567.544	23.823	18.	32.	75.	84.
00078	TRANSPARENCY, SECCHI DISC (METERS)	08/08/89-07/29/96	44	0.5	0.649	2.	0.05	0.254	0.504	0.225	0.3	0.965	1.52
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/23/73-07/29/96	221	53000.	53639.367	84000.	14500.	108951761.415	10437.996	40800.	47550.	61050.	66380.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/23/73-02/02/88	38	50375.	52650.421	95480.	19152.	200065211.44	14144.441	41460.	44325.	56750.	76809.6
00300p	OXYGEN, DISSOLVED MG/L	10/23/73-07/29/96	200	6.9	6.9	11.7	2.1	2.753	1.659	4.9	5.8	8.	8.9
00339	COD, BOTTOM DEPOSITS, DRY WEIGHT MG/KG	10/23/73-06/06/78	4	54750.	51825.	82000.	15800.	857095833.333	29276.199	**	**	**	**
00400p	PH (STANDARD UNITS)	10/23/73-07/29/96	190	8.3	8.252	9.03	6.7	0.083	0.289	7.906	8.1	8.405	8.6
00400p	CONVERTED PH (STANDARD UNITS)	10/23/73-07/29/96	190	8.3	8.108	9.03	6.7	0.104	0.323	7.906	8.1	8.405	8.6
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/23/73-07/29/96	190	0.005	0.008	0.2	0.001	0.	0.015	0.003	0.004	0.008	0.012
00403p	PH, LAB, STANDARD UNITS SU	10/23/73-02/02/88	52	8.3	8.252	8.7	7.6	0.055	0.235	8.	8.1	8.4	8.6
00403p	CONVERTED PH, LAB, STANDARD UNITS	10/23/73-02/02/88	52	8.3	8.184	8.7	7.6	0.06	0.245	8.	8.1	8.4	8.6
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/23/73-02/02/88	52	0.005	0.007	0.025	0.002	0.	0.005	0.003	0.004	0.008	0.01
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	10/07/76-07/29/96	78	141.5	146.526	596.	67.	3250.356	57.012	109.9	122.	160.	170.1
00440	BICARBONATE ION (MG/L AS HCO3)	08/03/83-08/03/83	1	92.	92.	92.	92.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	08/03/83-08/03/83	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00480p	SALINITY - PARTS PER THOUSAND	11/14/85-07/29/96	78	36.2	36.576	53.7	23.1	52.66	7.257	26.1	31.075	43.5	45.
00496	LOSS ON IGNITION, BOTTOM DEPOSITS (MG/KG)	04/26/76-08/08/89	12	79600.	75188.583	148500.	9700.	1950736784.811	44167.146	12377.5	34505.5	105041.	144030.
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/23/73-07/29/96	90	24.5	34.739	190.	2.5	1043.316	32.3	9.	14.	42.25	79.1
00535p	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	10/23/73-07/29/96	90	10.	13.244	90.	2.	176.361	13.28	3.	5.	14.	31.
00557	OIL & GREASE,SED,DRY WT,FREON EXTR-GRAV METH,MG/KG	07/06/77-04/26/88	11	684.	1999.318	13700.	12.5	15731678.314	3966.318	55.2	360.	1100.	11582.
00561	OIL & GREASE, SED, DRY WT,FREON EXTR-IR METH,MG/KG	10/23/73-08/08/89	4	250.	722.5	2300.	90.	1112291.667	1054.652	**	**	**	**
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/23/73-07/29/96	89	0.025	0.083	1.1	0.005	0.024	0.154	0.01	0.02	0.08	0.2
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/07/76-09/26/94	46 ##	0.015	0.015	0.09	0.005	0.	0.013	0.005	0.01	0.015	0.023
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	10/23/73-09/26/94	79 ##	0.015	0.04	1.2	0.005	0.018	0.135	0.005	0.005	0.04	0.07
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	01/14/93-07/29/96	15	1.22	1.117	1.97	0.42	0.213	0.462	0.486	0.71	1.47	1.754
00626	NITROGEN,ORG. KJEL.,BOT. DEPOS. (MG/KG-N DRY WGT)	10/23/73-08/08/89	10	3580.	4192.	14078.	262.	16095320.889	4011.897	311.8	940.	5237.5	13346.2
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	11/14/85-07/29/96	8 ##	0.008	0.01	0.02	0.005	0.	0.007	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	10/23/73-11/14/85	45	0.09	0.122	0.55	0.015	0.01	0.102	0.06	0.085	0.12	0.21
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	10/23/73-11/14/85	44 ##	0.015	0.04	0.46	0.015	0.005	0.069	0.015	0.015	0.03	0.075
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	10/23/73-07/29/96	88	0.04	0.05	0.24	0.005	0.001	0.037	0.02	0.03	0.058	0.08
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	10/23/73-08/08/89	15	370.	635.867	3620.	2.	829101.267	910.55	30.2	200.	540.	2408.
00671p	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/23/73-07/29/96	86	0.02	0.022	0.07	0.005	0.	0.019	0.005	0.005	0.03	0.053

** - Less than 9 observations ## - 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: PAIS0182

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00680p	CARBON, TOTAL ORGANIC (MG/L AS C)	07/17/74-07/29/96	79	7.	7.097	45.	0.5	47.793	6.913	0.5	1.	10.	15.
00916	CALCIUM, TOTAL (MG/L AS CA)	08/03/83-08/03/83	1	460.	460.	460.	460.	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	08/03/83-08/03/83	1	1200.	1200.	1200.	1200.	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	08/03/83-08/03/83	1	10000.	10000.	10000.	10000.	0.	0.	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	10/23/73-07/29/96	90	19300.	19092.211	30200.	282.	24093774.573	4908.541	13028.	16325.	22914.	24650.
00941	CHLORIDE, DISSOLVED IN WATER MG/L	04/09/74-01/06/76	8	17775.	18287.5	22250.	13450.	9116964.286	3019.431	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	10/23/73-07/29/96	89	2796.	2790.494	4800.	121.	599965.185	774.574	1850.	2400.	3305.	3700.
01002	ARSENIC, TOTAL (UG/L AS AS)	07/17/74-08/03/83	2	4.5	4.5	5.	4.	0.5	0.707	**	**	**	**
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	10/23/73-08/08/89	14	3.7	3.979	7.8	0.1	5.696	2.387	0.55	2.425	5.925	7.5
01004	ARSENIC TOTAL IN FISH OR ANIMAL WET WT MG/KG	05/27/86-08/08/89	6 ##	0.2	0.208	0.3	0.15	0.003	0.058	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	07/17/74-08/03/83	2	360.	360.	500.	220.	39200.	197.99	**	**	**	**
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	04/26/76-08/08/89	12	433.5	396.333	830.	43.	76755.152	277.047	47.5	93.	642.5	776.
01022	BORON, TOTAL (UG/L AS B)	07/17/74-07/17/74	1	6500.	6500.	6500.	6500.	0.	0.	**	**	**	**
01023	BORON IN BOTTOM DEPOSITS (MG/KG AS B DRY WGT)	04/26/76-08/25/80	4	48.5	56.923	130.	0.69	3349.597	57.876	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	07/17/74-08/03/83	2 ##	6.25	6.25	10.	2.5	28.125	5.303	**	**	**	**
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	10/23/73-08/08/89	14	0.695	0.756	2.	0.1	0.269	0.519	0.1	0.388	1.025	1.7
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	10/23/73-08/08/89	15	16.	15.74	34.	0.4	88.548	9.41	2.5	8.2	22.	31.6
01034	CHROMIUM, TOTAL (UG/L AS CR)	07/17/74-08/03/83	2 ##	55.	55.	100.	10.	4050.	63.64	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	07/17/74-08/03/83	2 ##	52.5	52.5	100.	5.	4512.5	67.175	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	10/23/73-08/08/89	15	15.	13.8	26.	0.1	49.569	7.04	2.62	8.8	19.	23.
01045	IRON, TOTAL (UG/L AS FE)	07/17/74-08/03/83	2	320.	320.	500.	140.	64800.	254.558	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	07/17/74-08/03/83	2	85.	85.	120.	50.	2450.	49.497	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	10/23/73-08/08/89	15	17.	15.22	26.	0.5	76.519	8.748	0.5	7.	24.	25.4
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	10/23/73-08/08/89	15	160.	232.333	670.	22.	34288.952	185.173	40.	100.	360.	598.
01055	MANGANESE, TOTAL (UG/L AS MN)	07/17/74-08/03/83	2	71.	71.	120.	22.	4802.	69.296	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	07/17/74-08/03/83	2 ##	107.5	107.5	200.	15.	17112.5	130.815	**	**	**	**
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	10/23/73-08/08/89	15	12.	10.893	18.	0.1	29.121	5.396	3.1	5.5	16.	18.
01077	SILVER, TOTAL (UG/L AS AG)	07/17/74-08/03/83	2	35.	35.	50.	20.	450.	21.213	**	**	**	**
01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	10/23/73-04/26/88	14 ##	0.25	0.571	3.5	0.1	0.766	0.875	0.1	0.2	0.513	2.25
01092	ZINC, TOTAL (UG/L AS ZN)	07/17/74-08/03/83	2	57.5	57.5	100.	15.	3612.5	60.104	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	10/23/73-08/08/89	13	67.	59.769	110.	8.	908.526	30.142	10.4	34.5	81.	101.2
01147	SELENIUM, TOTAL (UG/L AS SE)	07/17/74-07/17/74	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	07/06/77-08/08/89	7	1.4	1.406	2.4	0.2	0.596	0.772	**	**	**	**
01149	SELENIUM, TOTAL IN FISH OR ANIMALS WET WGT MG/KG	05/27/86-08/08/89	6	0.56	0.557	0.79	0.35	0.022	0.147	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	10/23/73-05/01/85	37 ##	2.	3.23	20.	0.	16.008	4.001	0.	0.	5.	6.
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	10/23/73-05/01/85	37 ##	0.301	0.329	1.301	-0.301	0.199	0.446	0.	0.	0.699	0.759
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			2.134								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/23/73-07/29/96	49 ##	1.5	5.061	47.	1.	75.486	8.688	1.	1.5	4.	17.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/23/73-07/29/96	49 ##	0.176	0.386	1.672	0.	0.202	0.45	0.	0.176	0.588	1.23
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			2.433								
32211p	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	10/23/73-07/29/96	84	3.35	8.329	63.2	0.5	136.135	11.668	0.5	2.425	9.225	27.25
32218p	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	10/07/76-07/29/96	74 ##	2.5	4.4	77.4	0.	95.775	9.786	0.	1.	2.5	10.95
34354	ENDOSULFAN SULFATE DRY WGTBOTUG/KG	08/08/89-08/08/89	1 ##	1.25	1.25	1.25	1.25	0.	0.	**	**	**	**
34680	ALDRIN IN FISH TISSUE WET WEIGHT MG/KG	05/27/86-08/08/89	5 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34682	CHLORDANE(TECH MIX & METABS),TISSUEWET WGTT,MG/KG	05/27/86-08/08/89	5 ##	0.01	0.009	0.01	0.005	0.	0.002	**	**	**	**
34685	ENDRIN WET WGTTISMG/KG	05/27/86-08/08/89	5 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
34686	HEPTACHLOR EPOXIDE WET WGTTISMG/KG	05/27/86-08/08/89	5 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34687	HEPTACHLOR WET WGTTISMG/KG	05/27/86-08/08/89	5 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34688	HEXACHLOROBENZENE WET WGTTISMG/KG	05/27/86-08/08/89	5 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34691	TOXAPHENE WET WGTTISMG/KG	05/27/86-08/08/89	5 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39061	PCP (PENTACHLOROPHENOL) IN BOT DEPOS DRY SOL UG/KG	07/01/85-08/08/89	5 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
39063	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	05/27/86-04/26/88	3 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39064	CHLORDANE-CIS ISOMER BOTTOM DEPOS (UG/KG DRY SOL	07/01/85-04/26/88	4 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	05/27/86-04/26/88	3 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39067	CHLORDANE-TRANS ISOMER,BOTTOM DEPOS(UG/KG DRY SL	07/01/85-04/26/88	4 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
39072	CHLORDANE-NONACHLOR,TRANS ISO,TISSUE,WET WT,UG/G	05/27/86-04/26/88	3 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39073	CHLORDANE-NONACHLOR,TRANS ISO,BOTTOM DEP UG/KG	07/01/85-04/26/88	4 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
39074	BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	05/27/86-04/26/88	3 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39075	BHC- GAMMA ISOMER, TISSUE WET WGT (UG/G)	05/27/86-08/08/89	5 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39076	BHC-ALPHA ISOMER, BOTTOM DEPOS (UG/KG DRY SOL)	07/01/85-04/26/88	4 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39301	P,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	07/01/85-05/07/87	3 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
39302	P P DDT IN TISSUE WET WGT (UG/G)	05/27/86-04/26/88	3 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39306	O,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	07/01/85-04/26/88	4 ##	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

Parameter Inventory for Station: PAIS0182

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39307	O P DDT IN TISSUE WET WGT (UG/G)	05/27/86-04/26/88	3 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39311	P,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	07/01/85-04/26/88	4 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
39312	P P DDD IN TISSUE WET WGT (UG/G)	05/27/86-04/26/88	3 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39316	O,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	07/01/85-05/07/87	3 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
39321	P,P' DDE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	07/01/85-04/26/88	4 ##	0.75	0.75	0.75	0.75	0.	0.	**	**	**	**
39322	P,P'-DDE IN TISSUE WET WGT MG/KG	05/27/86-04/26/88	3	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
39325	O,P DDD IN TISSUE WET WGT (UG/G)	05/27/86-04/26/88	3 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39328	O,P'DDE IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	07/01/85-04/26/88	4 ##	0.75	0.75	0.75	0.75	0.	0.	**	**	**	**
39329	O,P DDE IN TISSUE, WET WGT(UG/G)	05/27/86-04/26/88	3 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	04/09/75-08/08/89	14 ##	0.375	0.339	0.5	0.	0.035	0.186	0.	0.25	0.5	0.5
39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	04/09/75-08/08/89	14 ##	3.	3.214	10.	0.	7.027	2.651	0.	1.5	5.	7.5
39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	04/09/75-08/08/89	13 ##	1.5	1.885	4.	0.	1.631	1.277	0.	1.5	3.	4.
39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	04/09/75-08/08/89	14 ##	0.75	1.179	3.25	0.	0.985	0.992	0.	0.75	1.5	3.25
39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	04/09/75-08/08/89	15 ##	1.5	1.9	4.	0.	1.756	1.325	0.	1.5	3.	4.
39376	DDT SUM ANALOGS INTISSUE WET WGT BASIS	08/06/87-08/08/89	4 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	04/09/75-08/08/89	14 ##	1.	0.893	1.5	0.	0.161	0.401	0.	1.	1.	1.25
39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	04/09/75-08/08/89	14 ##	1.5	1.286	1.5	0.	0.297	0.545	0.	1.5	1.5	1.5
39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	04/09/75-08/08/89	14 ##	25.	21.429	25.	0.	82.418	9.078	0.	25.	25.	25.
39406	DIELDRIN IN AQ ORGANISMS WT WGT BASIS (UG/G)	05/27/86-08/08/89	5 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	04/09/75-08/08/89	14 ##	0.25	0.232	0.5	0.	0.014	0.119	0.	0.25	0.25	0.375
39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	04/09/75-08/08/89	14 ##	0.5	0.429	0.5	0.	0.033	0.182	0.	0.5	0.5	0.5
39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	04/09/75-08/08/89	14 ##	5.	4.643	10.	0.	5.632	2.373	0.	5.	5.	7.5
39515	PCBS (MG/KG) FISH TISSUE MG/KG	05/27/86-08/08/89	5 ##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	04/09/75-08/08/89	14 ##	10.	29.143	147.	10.	1633.824	40.421	10.	10.	31.25	116.5
39531	MALATHION IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	04/09/75-08/08/89	6 ##	2.5	2.083	2.5	0.	1.042	1.021	**	**	**	**
39541	PARATHION IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	04/09/75-08/08/89	14 ##	1.5	1.357	2.5	0.	0.401	0.633	0.	1.5	1.5	2.
39571	DIAZINON IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	04/09/75-08/08/89	14 ##	2.5	2.143	2.5	0.	0.824	0.908	0.	2.5	2.5	2.5
39601	METHYL PARATHION IN BOT. DEPOS.(UG/KG DRY SOLIDS)	04/09/75-04/26/88	13 ##	1.5	1.346	2.5	0.	0.433	0.658	0.	1.5	1.5	2.1
39701	HEXACHLOROBENZENE IN BOT DEPOS (UG/KG DRY SOLIDS)	07/01/85-08/08/89	5 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39731	2,4-D IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	07/01/85-08/08/89	5 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
39741	2,4,5-T IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	07/01/85-08/08/89	5 ##	5.	4.5	5.	2.5	1.25	1.118	**	**	**	**
39761	SILVEX IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	04/09/75-04/26/88	7 ##	5.	4.286	10.	0.	11.905	3.45	**	**	**	**
39783	LINDANE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	04/09/75-08/08/89	14 ##	0.5	0.429	0.5	0.	0.033	0.182	0.	0.5	0.5	0.5
70211	TIDE, HIGH OR LOW,BEFORE OR AFTER,HOUR,MINUTE	10/23/73-10/02/74	4	1.5	1.5	2.	1.	0.333	0.577	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/07/77-07/29/96	16	41523.5	41646.688	57200.	31800.	48327662.229	6951.81	32150.	36675.	46075.	51530.
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	04/09/75-07/07/75	2	0.025	0.025	0.03	0.02	0.	0.007	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	07/17/74-08/03/83	2 ##	1.9	1.9	3.3	0.5	3.92	1.98	**	**	**	**
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	10/23/73-08/08/89	15	0.05	0.385	5.	0.01	1.632	1.278	0.013	0.03	0.06	2.12
71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	05/27/86-08/08/89	6	0.065	0.098	0.22	0.05	0.005	0.069	**	**	**	**
71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	05/27/86-08/08/89	6 ##	0.775	0.775	0.8	0.75	0.001	0.027	**	**	**	**
71937	COPPER,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	05/27/86-08/08/89	6	1.045	1.038	1.96	0.3	0.311	0.557	**	**	**	**
71939	CHROMIUM,TOT IN FISH OR ANIMALS-WET WEIGHT BASIS	05/27/86-08/08/89	6 ##	0.35	0.537	1.1	0.3	0.106	0.326	**	**	**	**
71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	05/27/86-08/08/89	6 ##	0.175	0.175	0.2	0.15	0.001	0.027	**	**	**	**
72053	DAYS SINCE PRECIPITATION EVENT DAYS	10/12/89-07/29/96	39	5.	3.897	5.	0.5	2.805	1.675	1.	2.5	5.	5.
81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	05/27/86-08/08/89	6	4.5	5.	8.	3.	4.4	2.098	**	**	**	**
81615	NUMBER OF DIFFERENT SPECIES IN THE SAMPLE	05/27/86-08/08/89	6	1.	1.	1.	1.	0.	0.	**	**	**	**
81644	METHOXYCHLOR IN FISH TISSUE,UG/G WET WEIGHT	05/27/86-08/08/89	5 ##	0.015	0.015	0.015	0.015	0.	0.	**	**	**	**
81896	DDE TOTAL IN TISSUE WET WEIGHT MG/KG	05/27/86-08/08/89	5	0.01	0.008	0.01	0.005	0.	0.003	**	**	**	**
81897	DDD TOTAL IN TISSUE WET WEIGHT MG/KG	05/27/86-08/08/89	5 ##	0.01	0.009	0.01	0.005	0.	0.002	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: PAIS0182

				Total	Exceed	Prop.	----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------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.	13	0	0.00	6	0	0.00	7	0	0.00						
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	200	5	0.03	96	5	0.05	104	0	0.00						
00400	PH	Marine Chronic	8.5	190	38	0.20	94	33	0.35	96	5	0.05						
		Other-Lo Lim.	6.5	190	0	0.00	94	0	0.00	96	0	0.00						

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

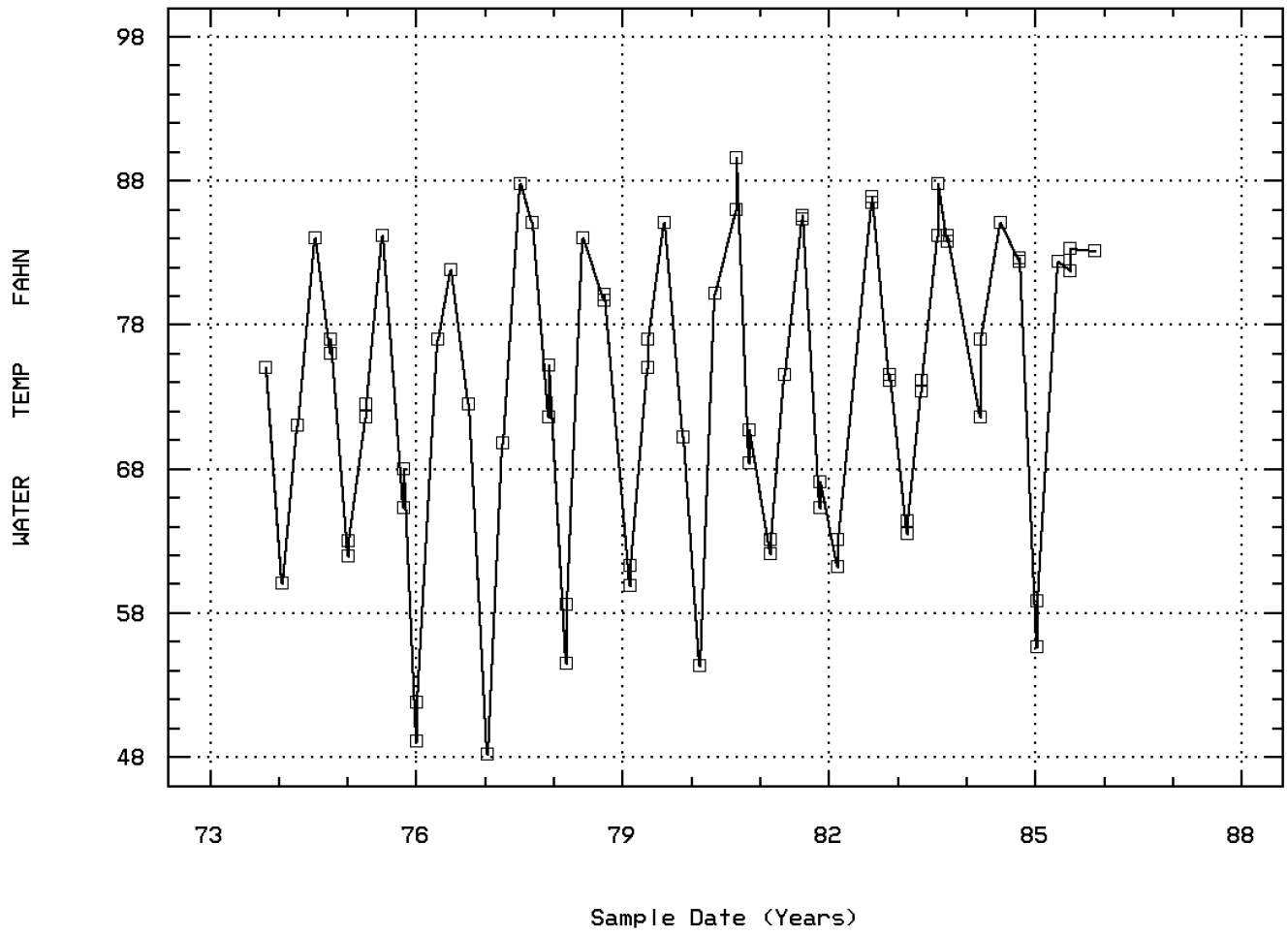
EPA Water Quality Criteria Analysis for Station: PAIS0182

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------5/01-10/31---------- Obs	Exceed	Prop.	----------11/01-4/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00403	PH, LAB	Marine Chronic	8.5	52	8	0.15	26	5	0.19	26	3	0.12						
		Other-Lo Lim.	6.5	52	0	0.00	26	0	0.00	26	0	0.00						
01002	ARSENIC, TOTAL	Marine Acute	69.	2	0	0.00	2	0	0.00									
01027	CADMIUM, TOTAL	Marine Acute	43.	2	0	0.00	2	0	0.00									
01042	COPPER, TOTAL	Marine Acute	2.9	1 &	1	1.00	1	1	1.00									
01051	LEAD, TOTAL	Marine Acute	220.	2	0	0.00	2	0	0.00									
01067	NICKEL, TOTAL	Marine Acute	75.	2	1	0.50	2	1	0.50									
01077	SILVER, TOTAL	Marine Acute	0.12	2	2	1.00	2	2	1.00									
01092	ZINC, TOTAL	Marine Acute	95.	2	1	0.50	2	1	0.50									
01147	SELENIUM, TOTAL	Marine Acute	300.	1	0	0.00	1	0	0.00									
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	37	0	0.00	19	0	0.00	18	0	0.00						
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	49	0	0.00	21	0	0.00	28	0	0.00						
71900	MERCURY, TOTAL	Marine Acute	2.1	2	1	0.50	2	1	0.50									

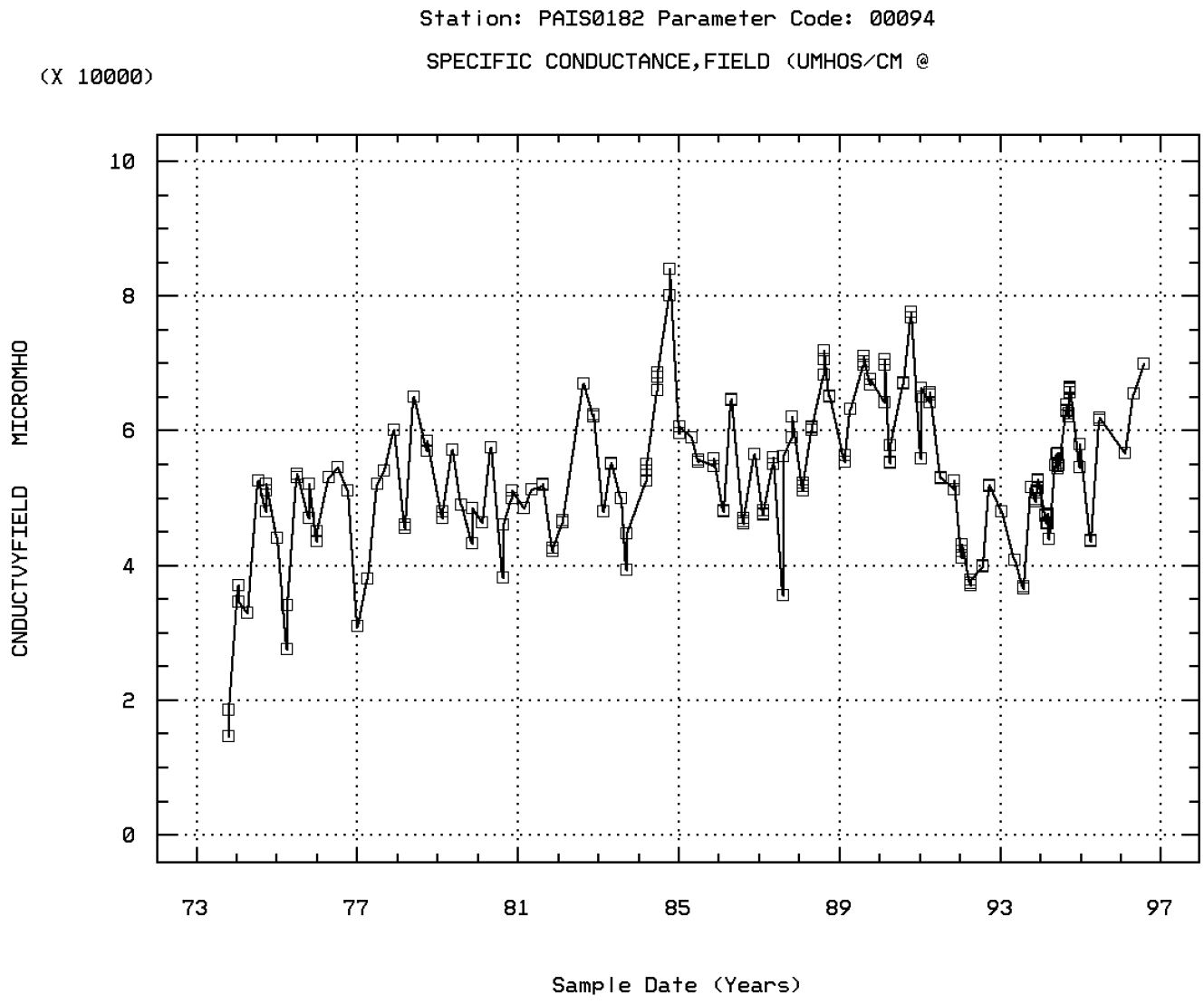
& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station: PAIS0182 Parameter Code: 00011

TEMPERATURE, WATER (DEGREES FAHRENHEIT)



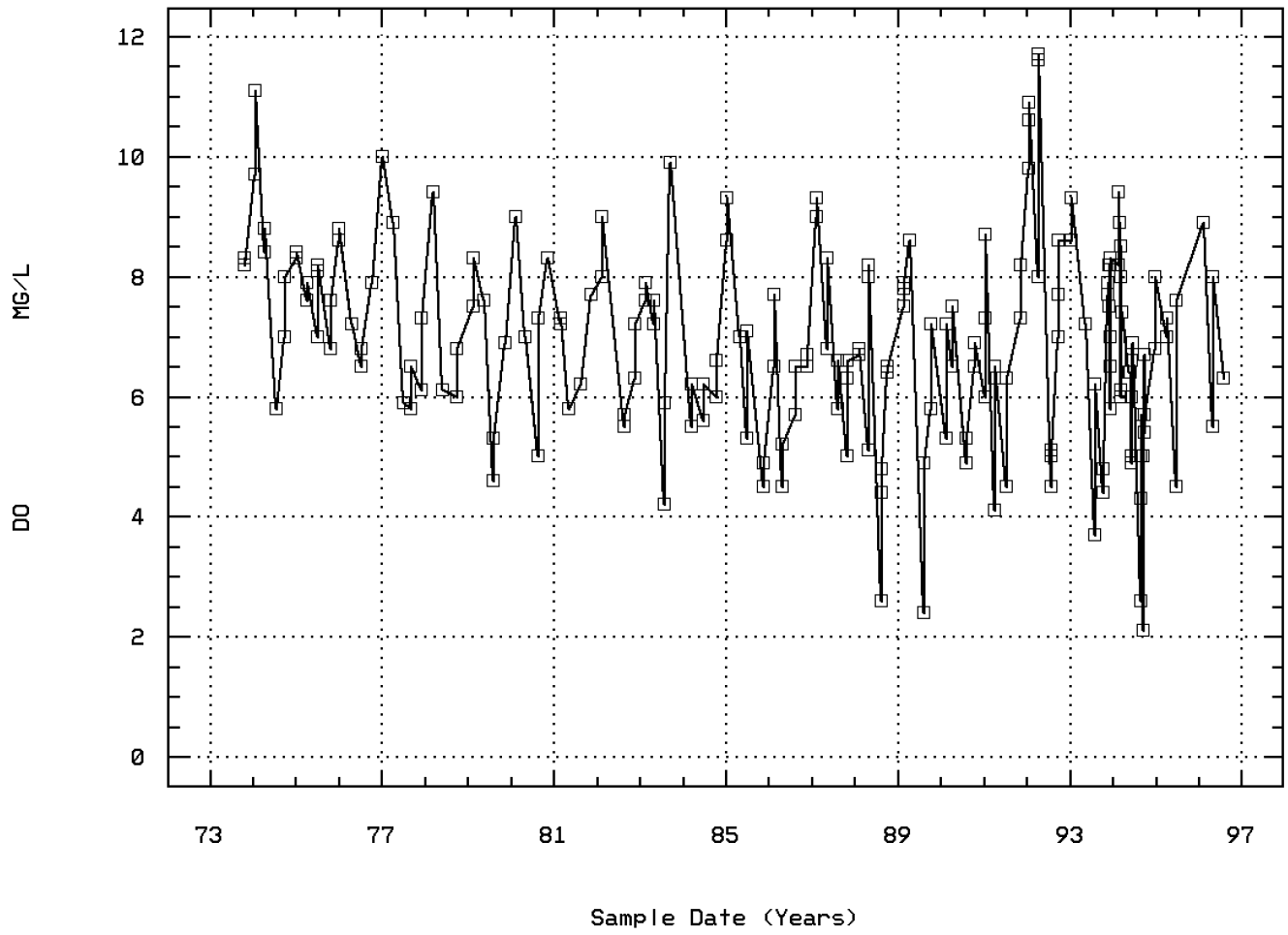
LAGUNA MADRE ICWW/BIRD ISLAND



LAGUNA MADRE ICWW/BIRD ISLAND

Station: PAIS0182 Parameter Code: 00300

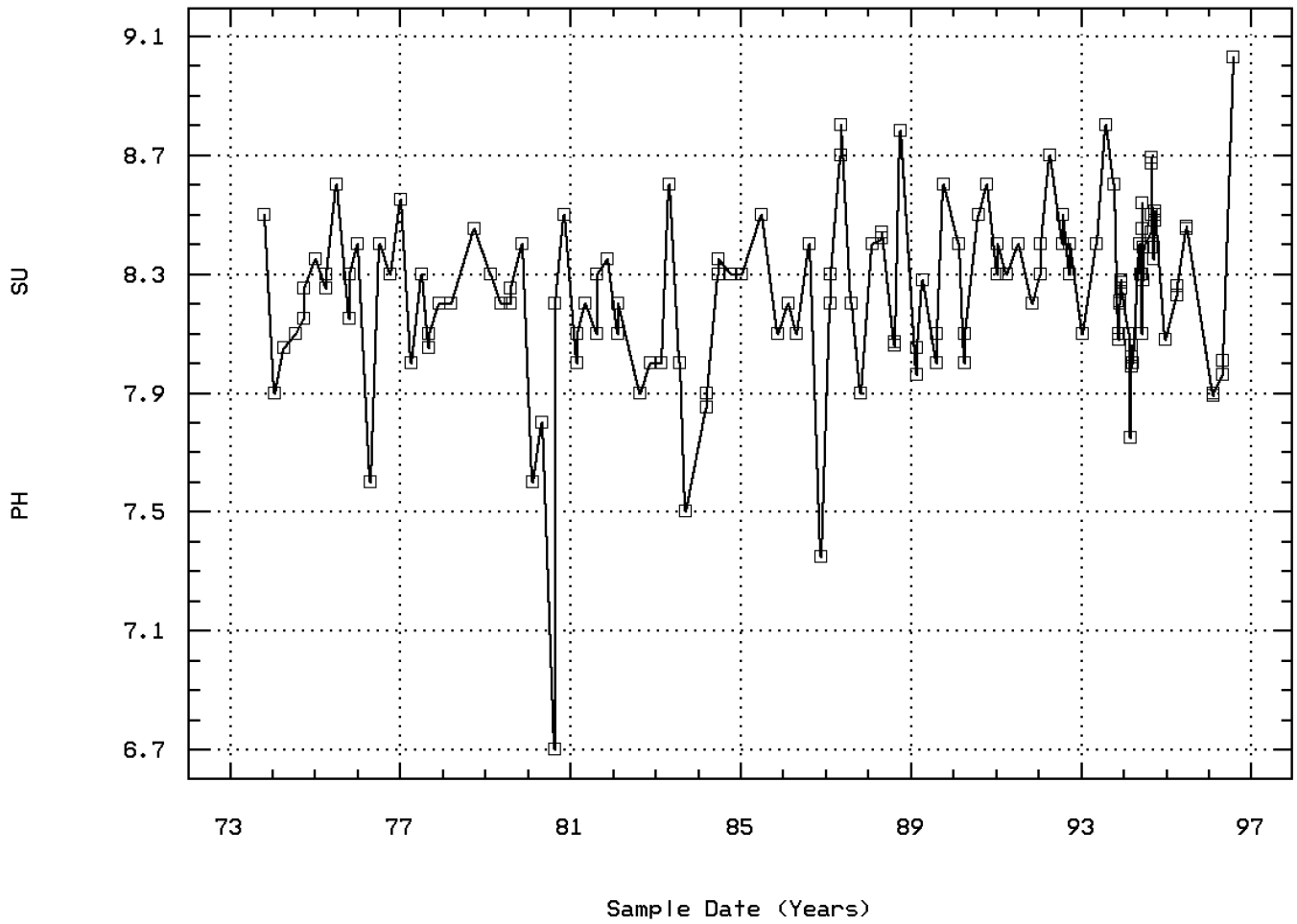
OXYGEN, DISSOLVED



LAGUNA MADRE ICWW/BIRD ISLAND

Station: PAIS0182 Parameter Code: 00400

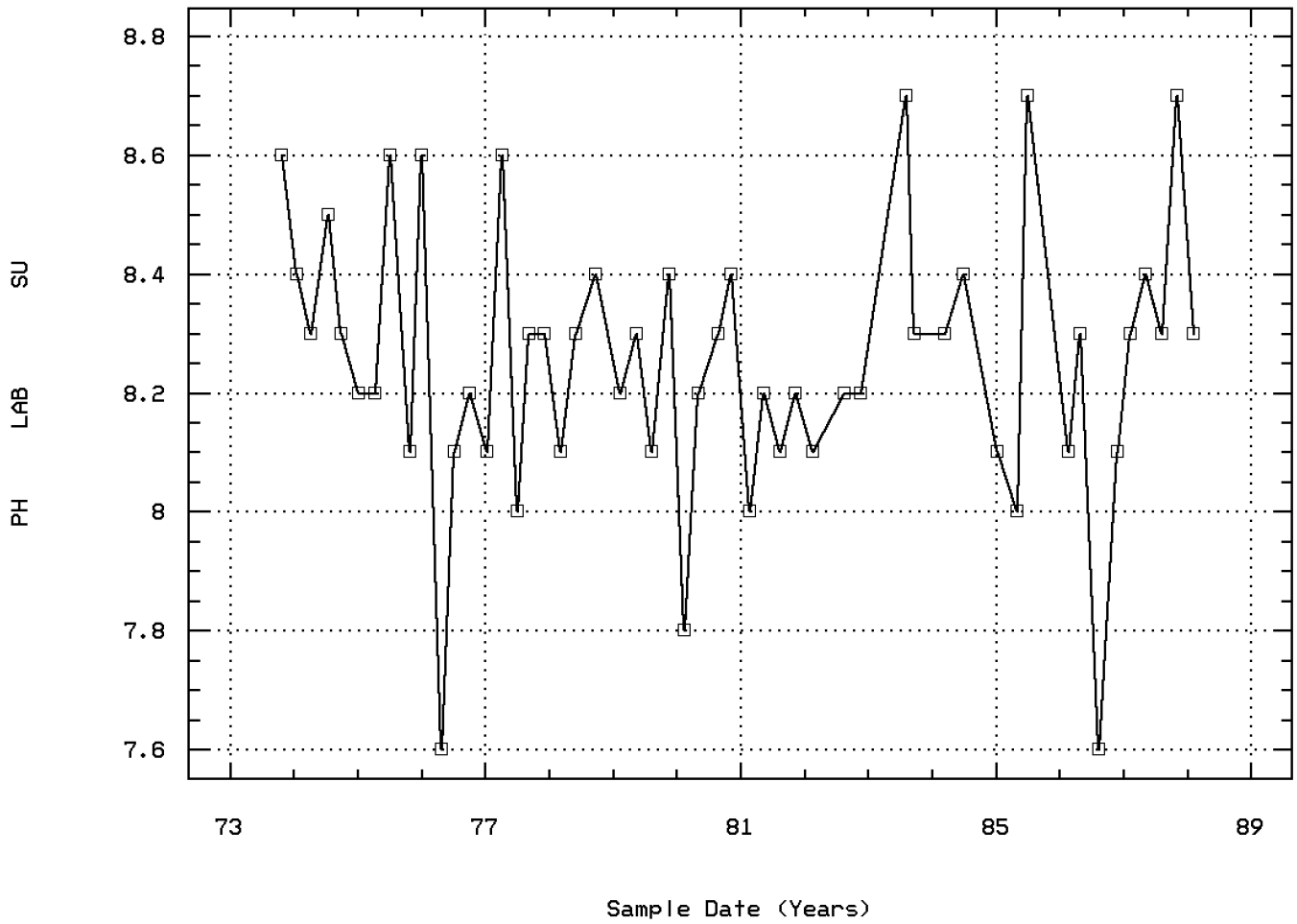
PH (STANDARD UNITS)



LAGUNA MADRE ICWW/BIRD ISLAND

Station: PAIS0182 Parameter Code: 00403

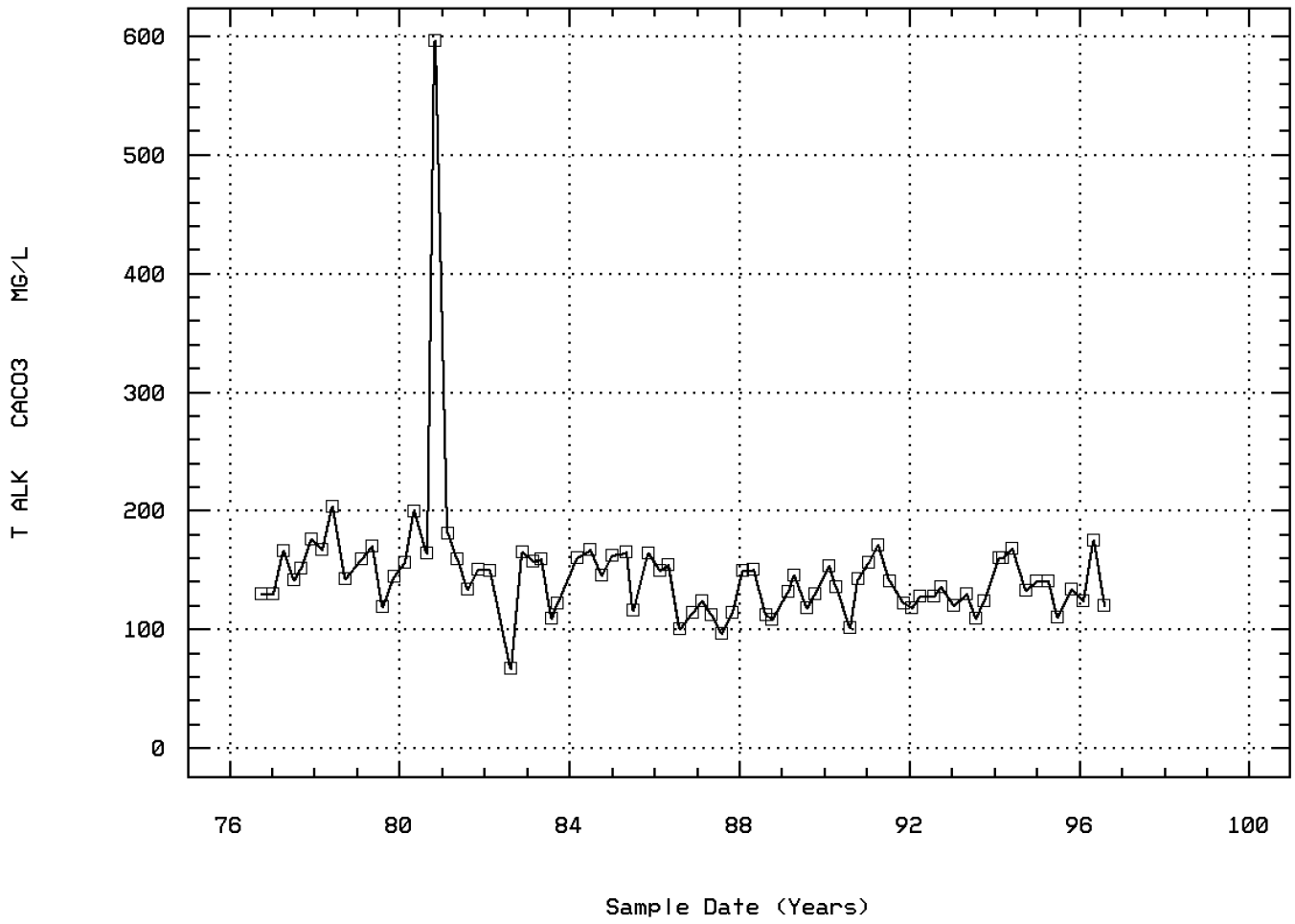
PH, LAB, STANDARD UNITS



LAGUNA MADRE ICWW/BIRD ISLAND

Station: PAIS0182 Parameter Code: 00410

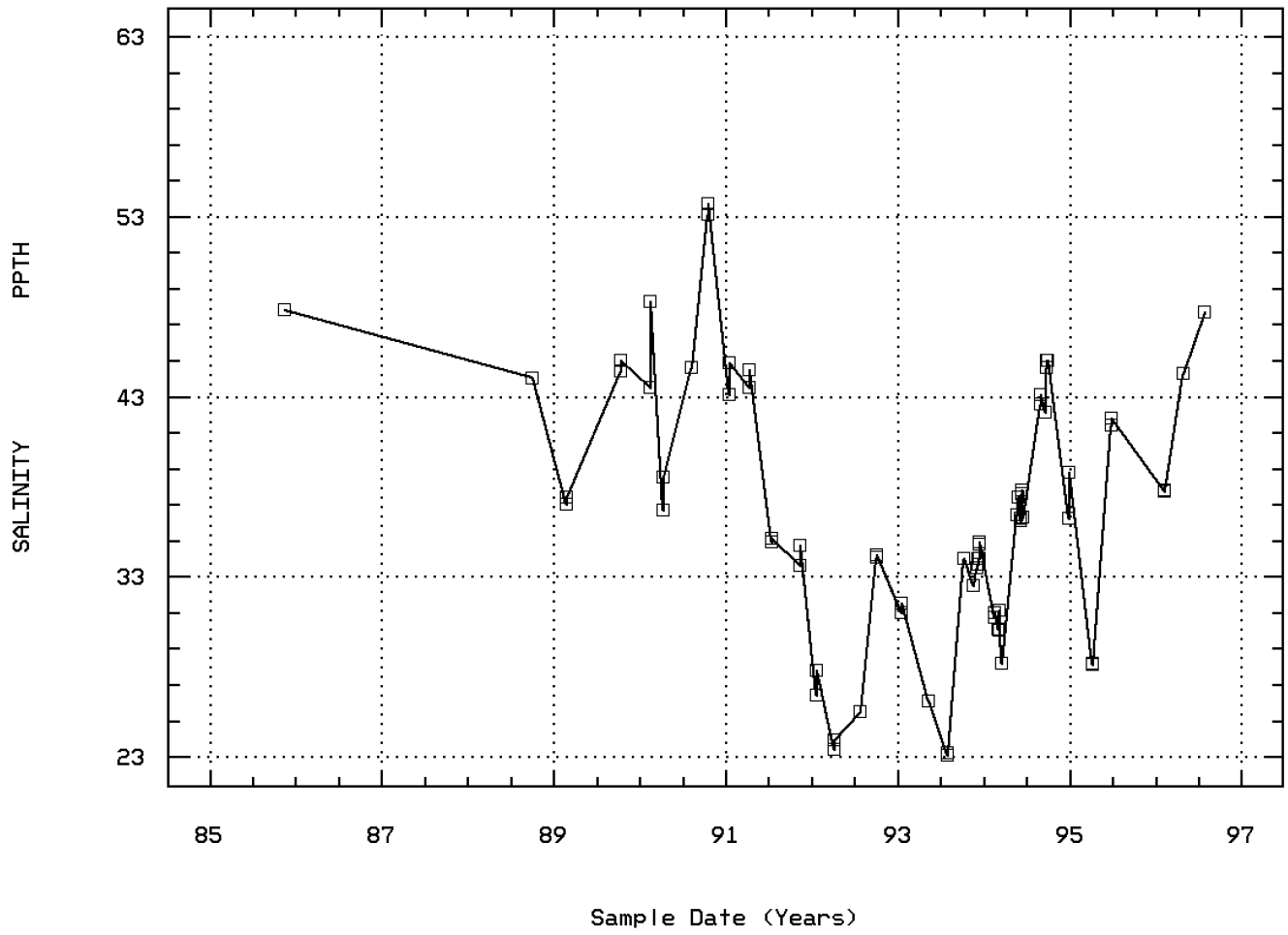
ALKALINITY, TOTAL (MG/L AS CACO3)



LAGUNA MADRE ICWW/BIRD ISLAND

Station: PAIS0182 Parameter Code: 00480

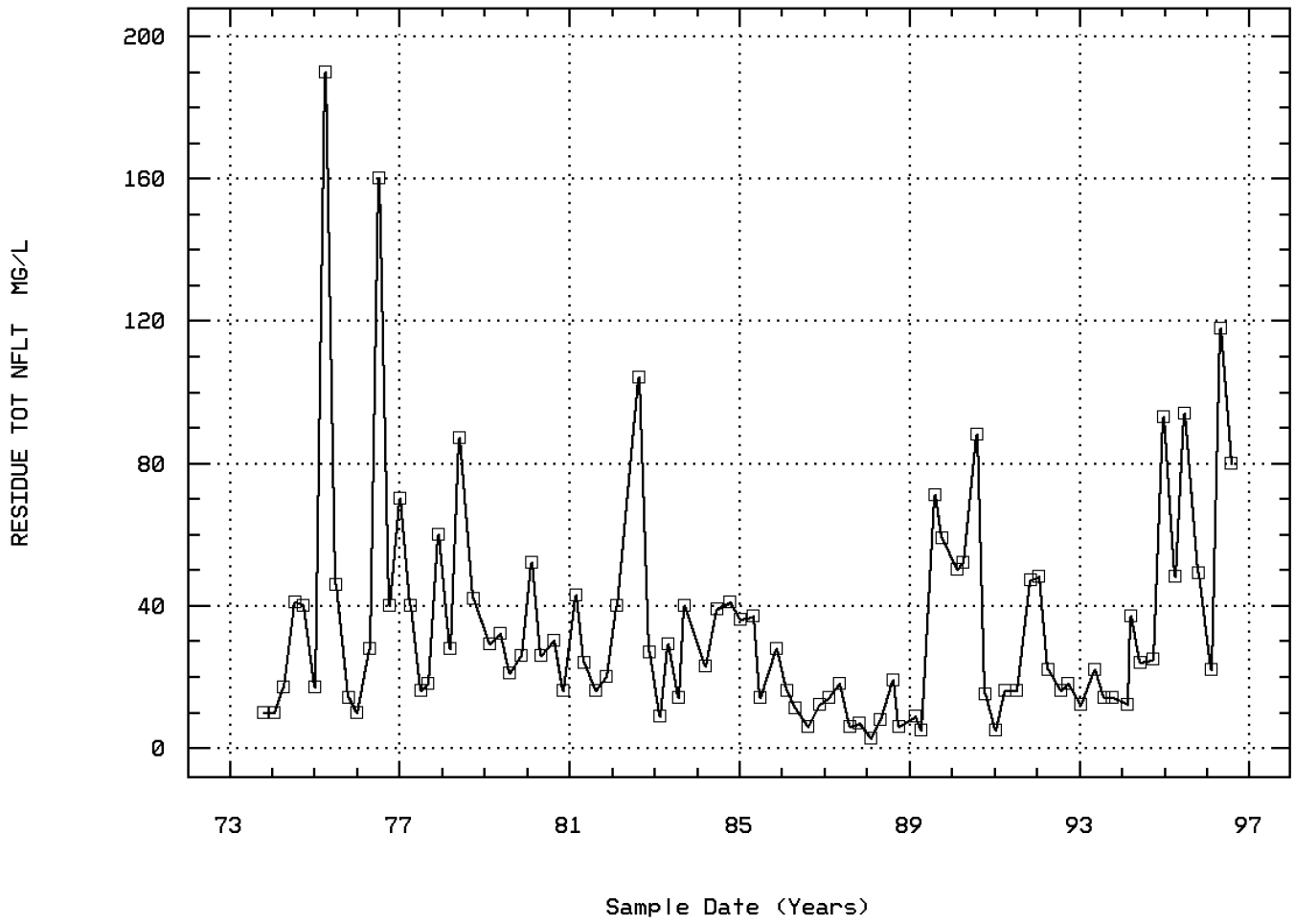
SALINITY - PARTS PER THOUSAND



LAGUNA MADRE ICWW/BIRD ISLAND

Station: PAIS0182 Parameter Code: 00530

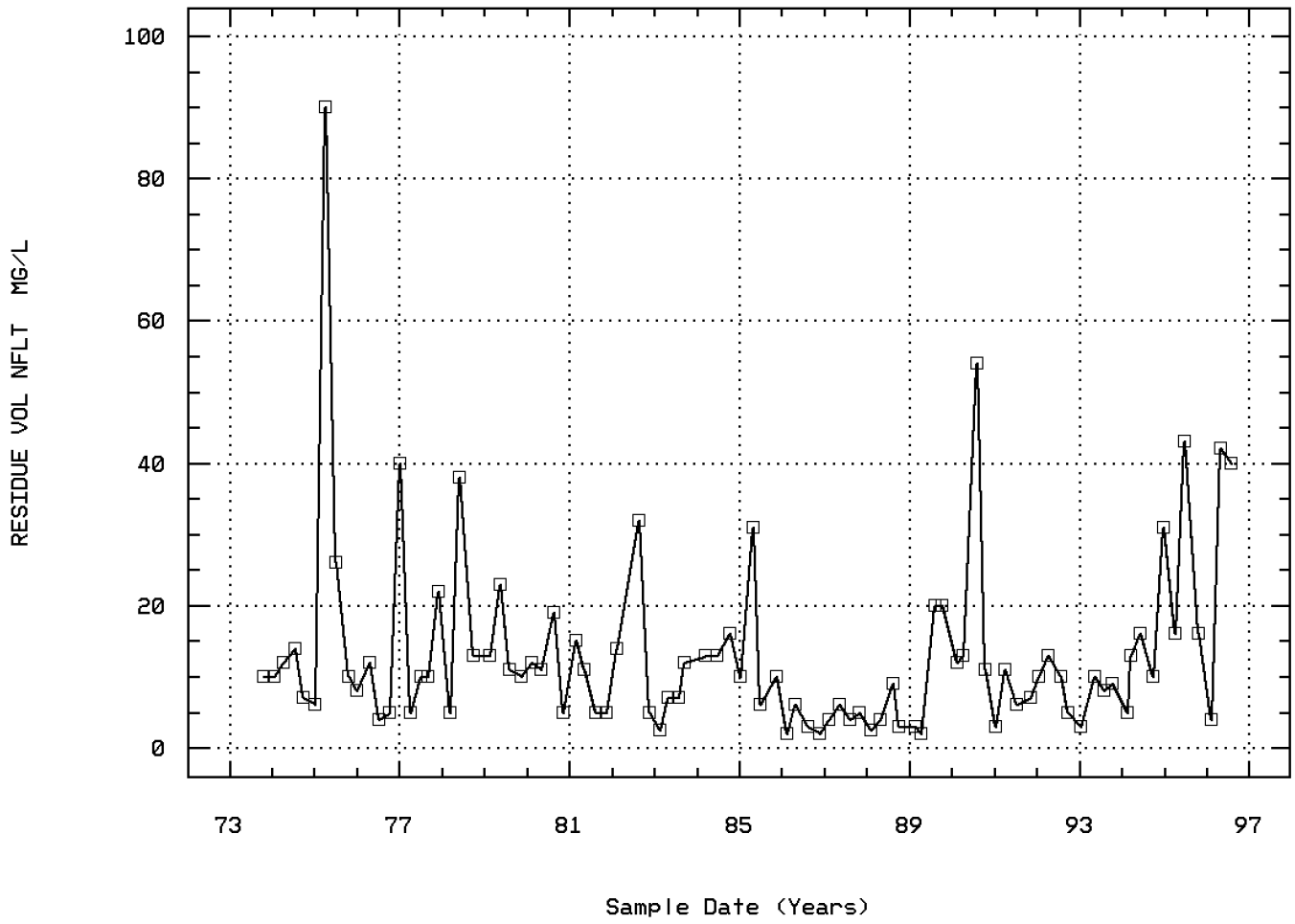
RESIDUE, TOTAL NONFILTRABLE (MG/L)



LAGUNA MADRE ICWW/BIRD ISLAND

Station: PAIS0182 Parameter Code: 00535

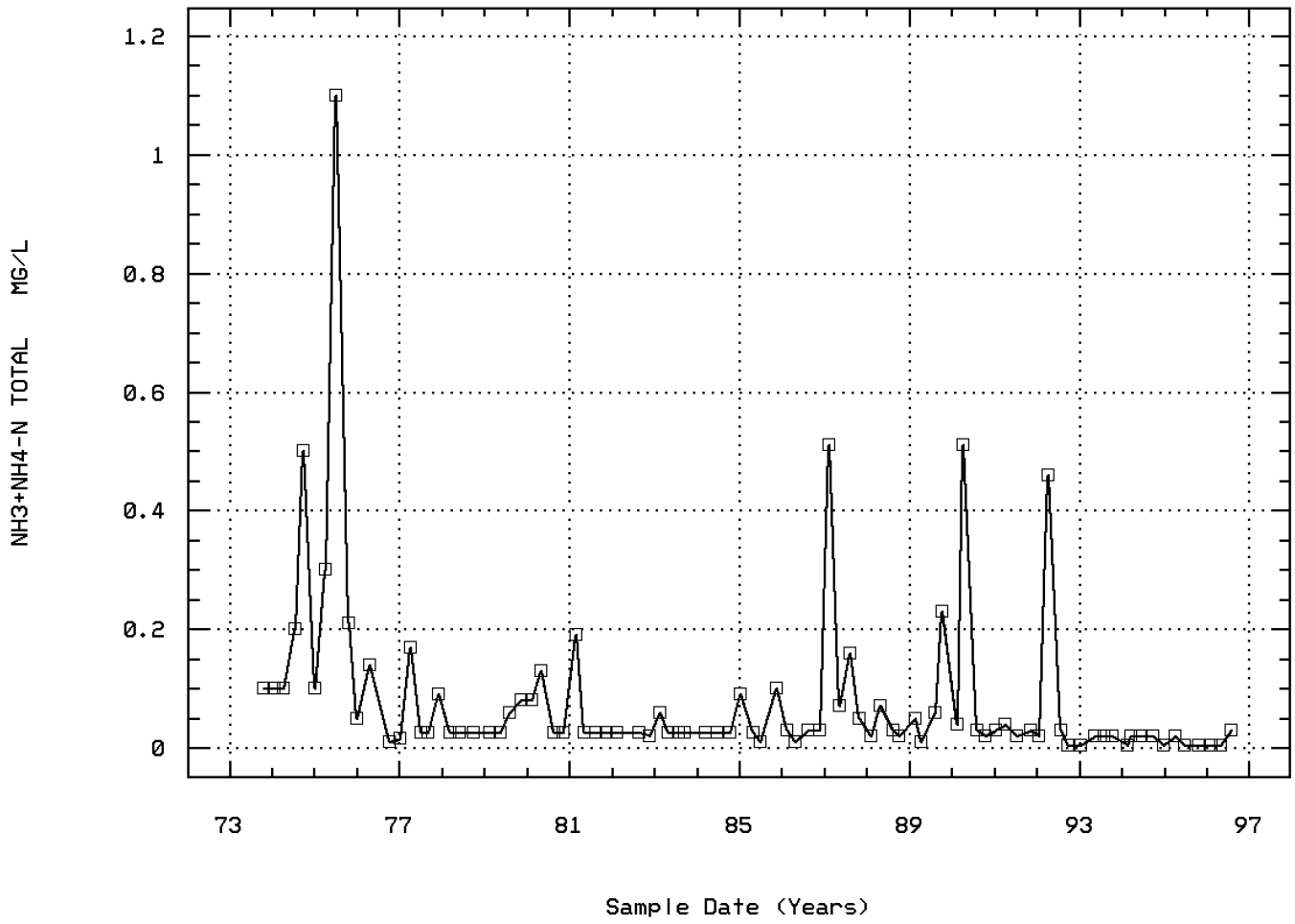
RESIDUE, VOLATILE NONFILTRABLE (MG/L)



LAGUNA MADRE ICWW/BIRD ISLAND

Station: PAIS0182 Parameter Code: 00610

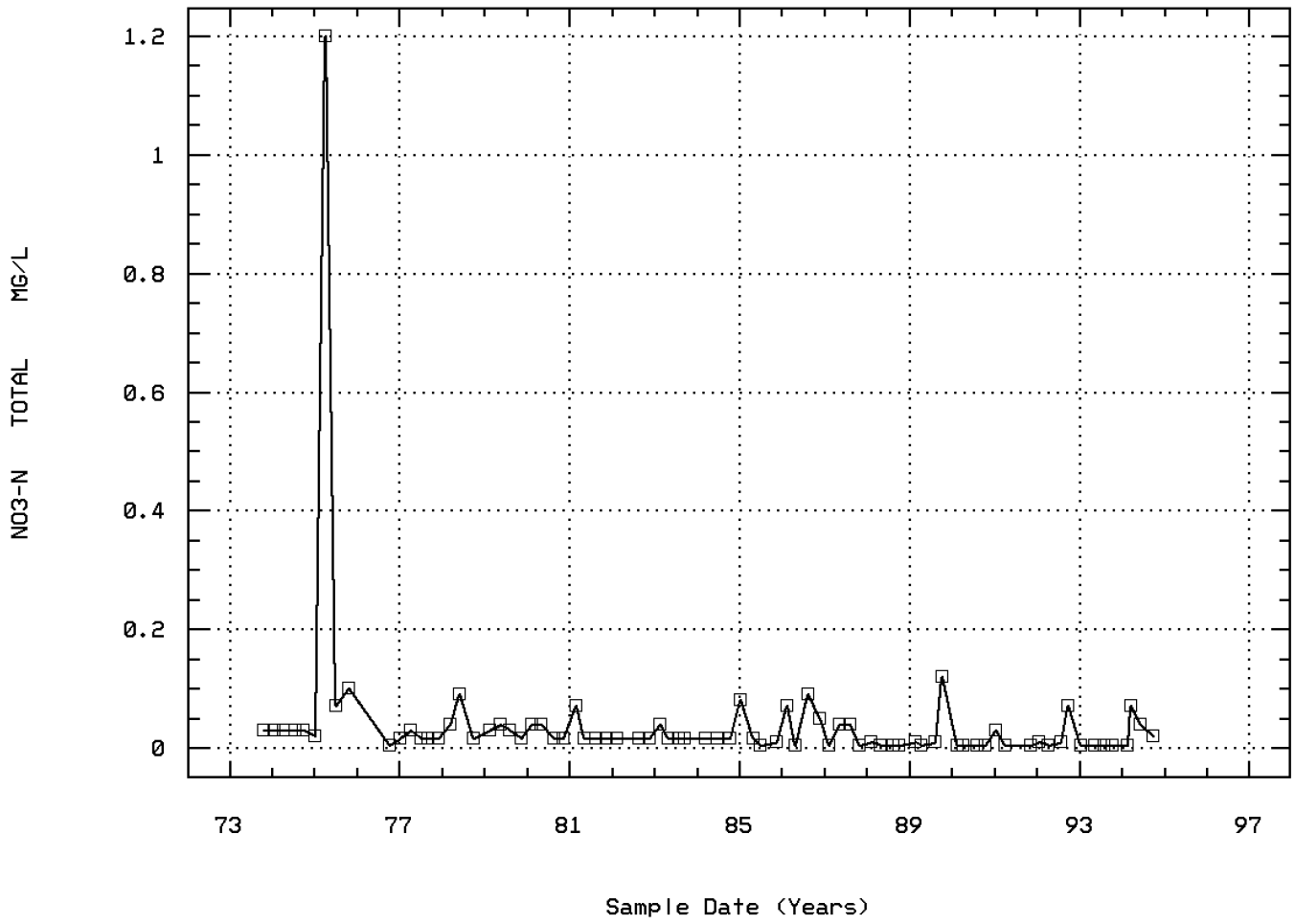
NITROGEN, AMMONIA, TOTAL (MG/L AS N)



LAGUNA MADRE ICWW/BIRD ISLAND

Station: PAIS0182 Parameter Code: 00620

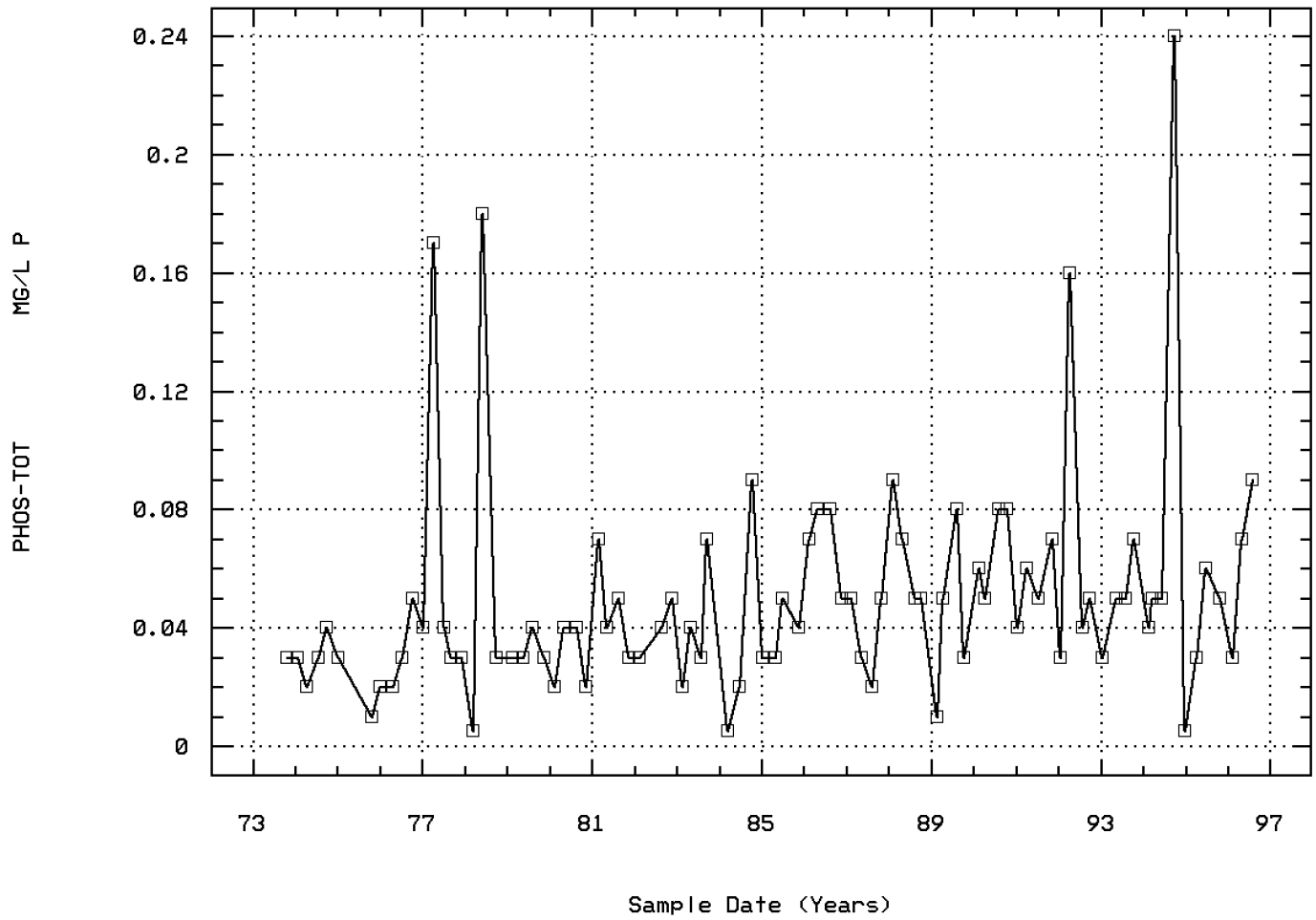
NITRATE NITROGEN, TOTAL (MG/L AS N)



LAGUNA MADRE ICWW/BIRD ISLAND

Station: PAIS0182 Parameter Code: 00665

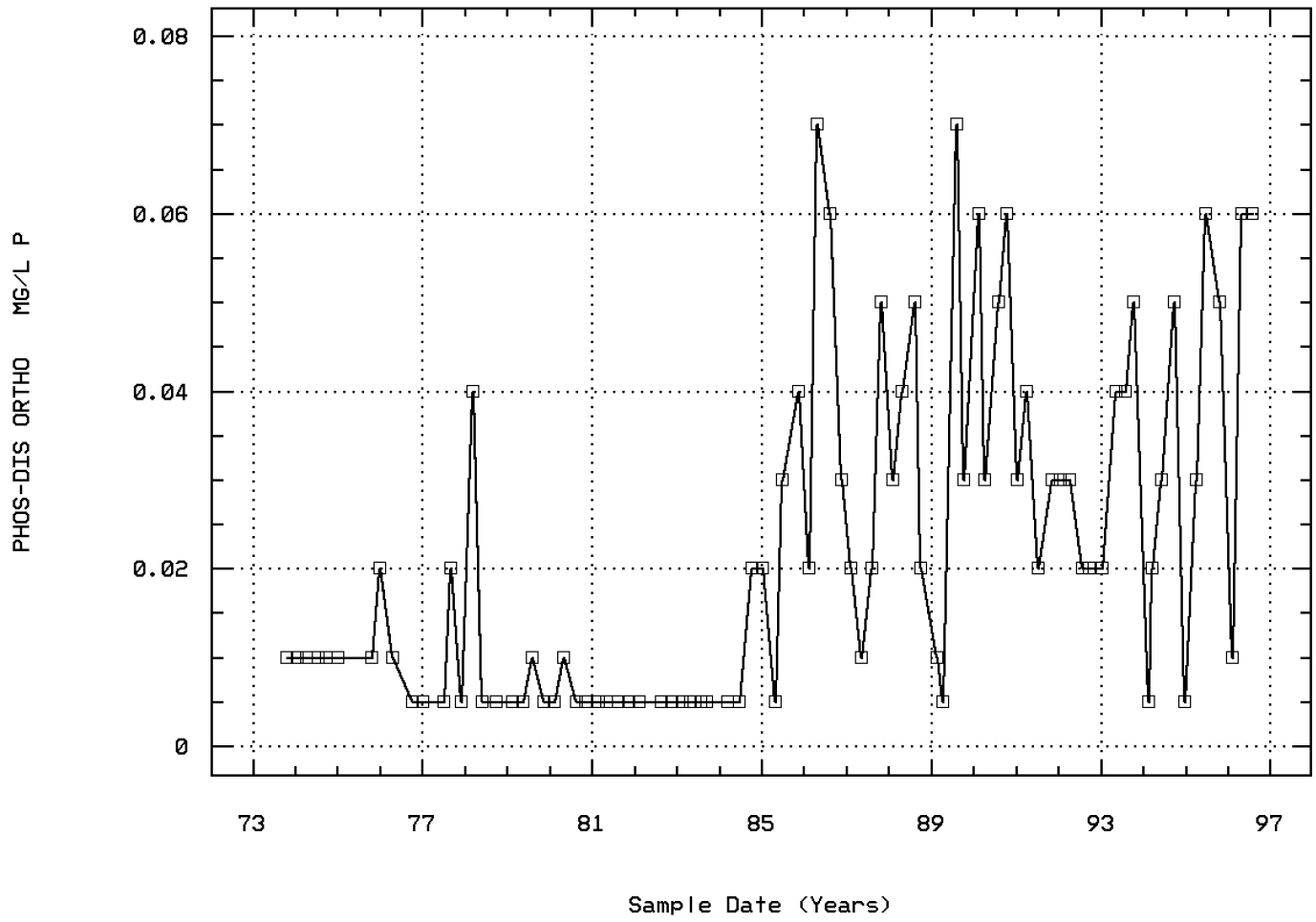
PHOSPHORUS, TOTAL (MG/L AS P)



LAGUNA MADRE ICWW/BIRD ISLAND

Station: PAIS0182 Parameter Code: 00671

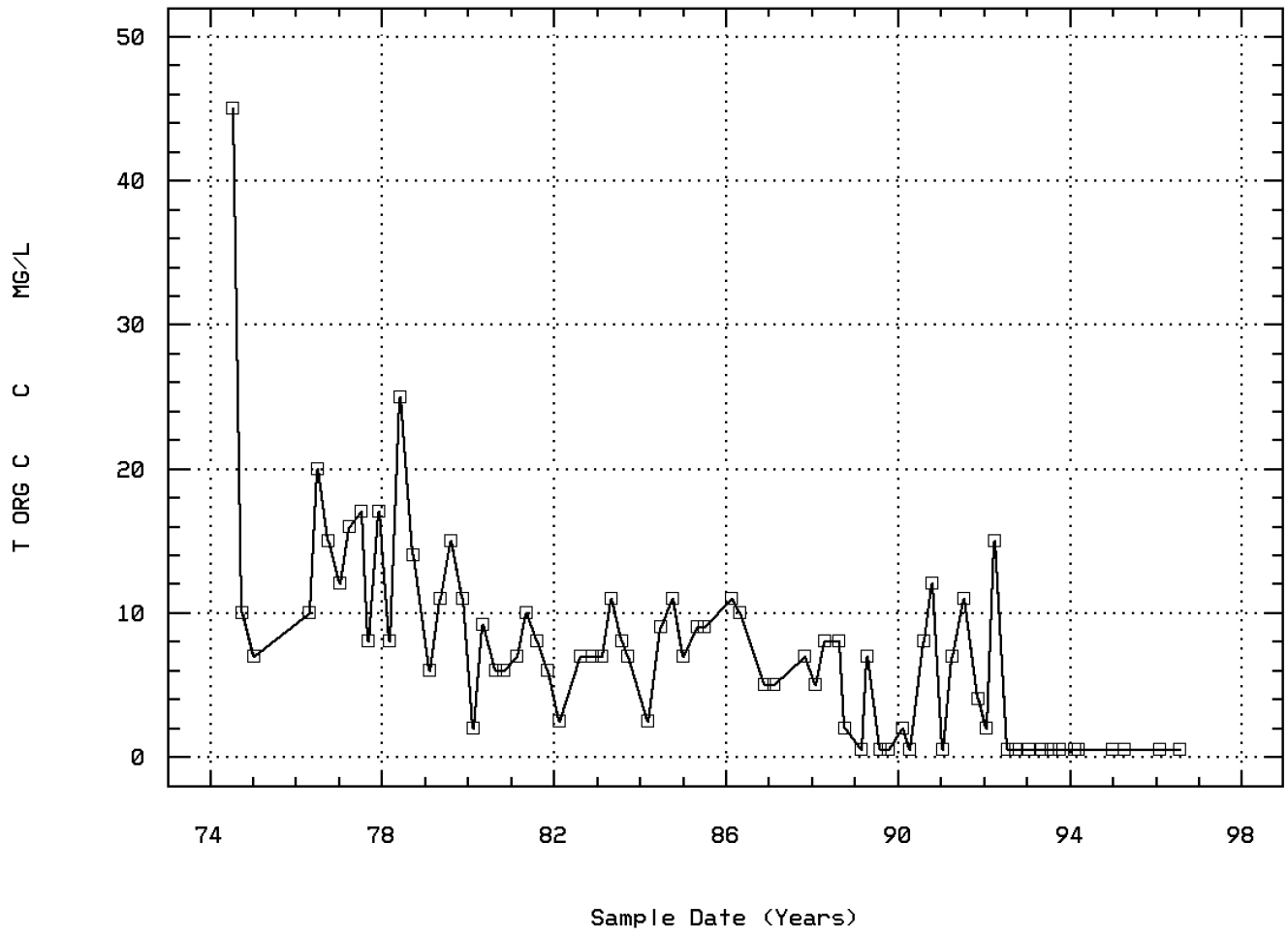
PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (M



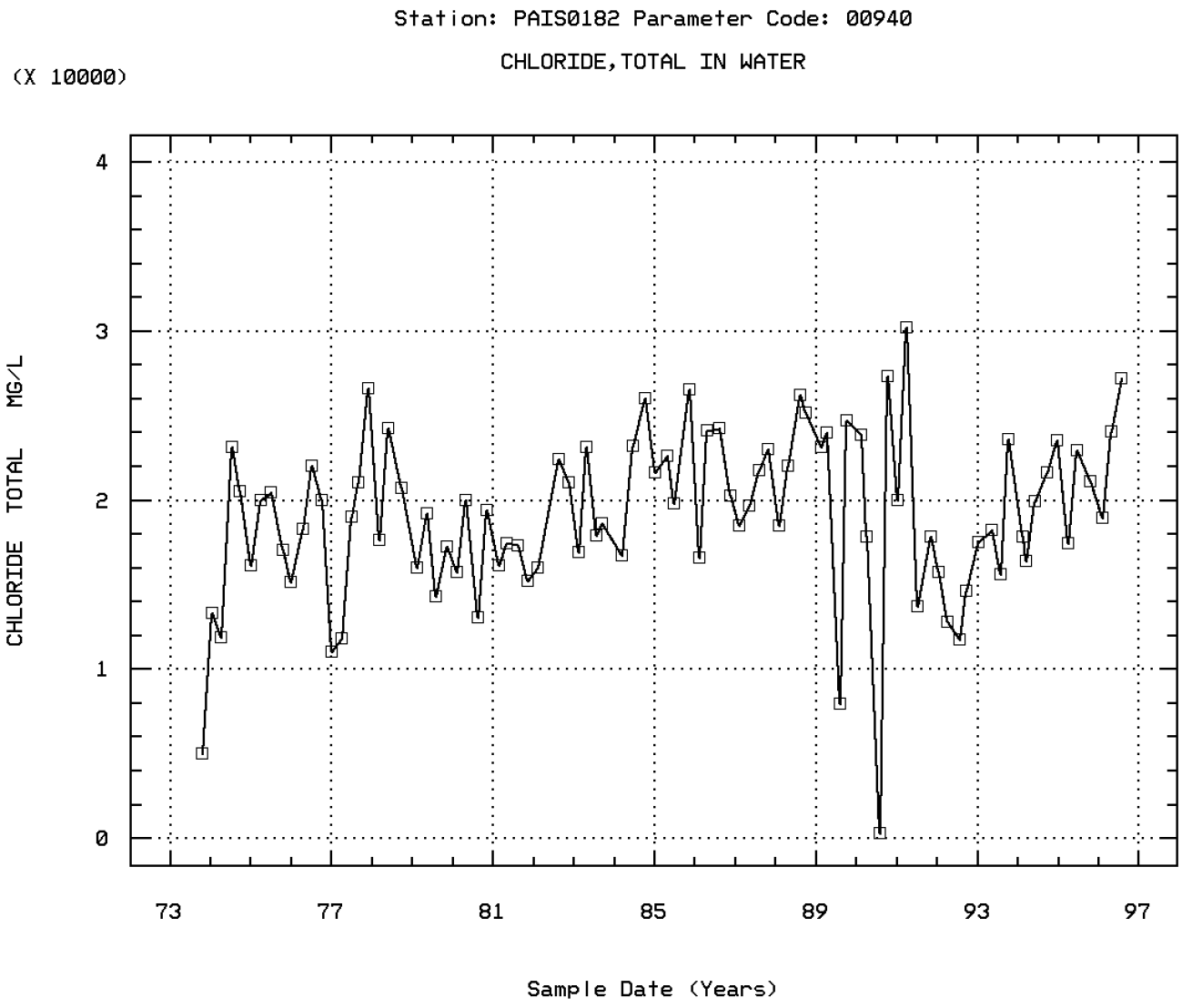
LAGUNA MADRE ICWW/BIRD ISLAND

Station: PAIS0182 Parameter Code: 00680

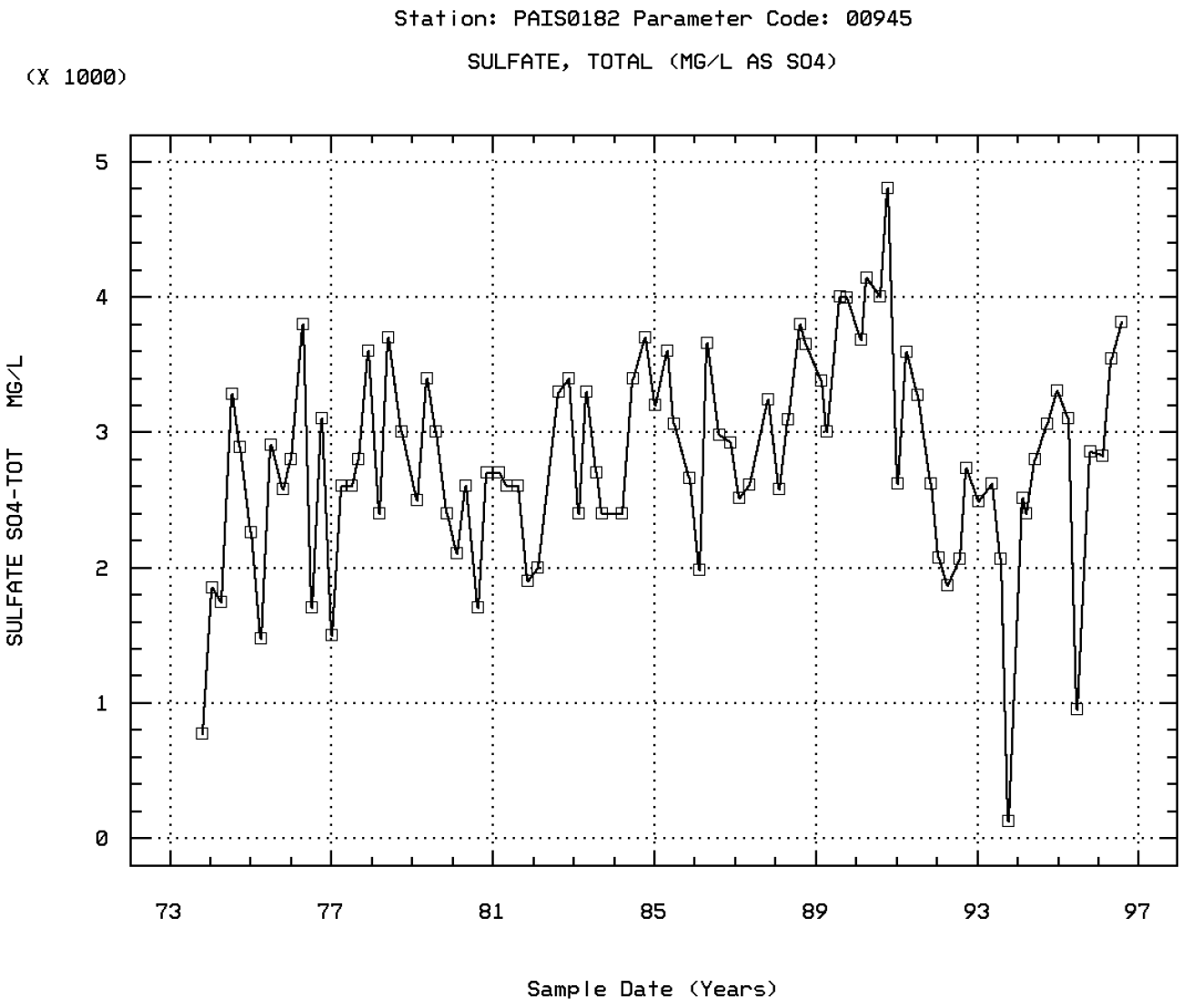
CARBON, TOTAL ORGANIC (MG/L AS C)



LAGUNA MADRE ICWW/BIRD ISLAND



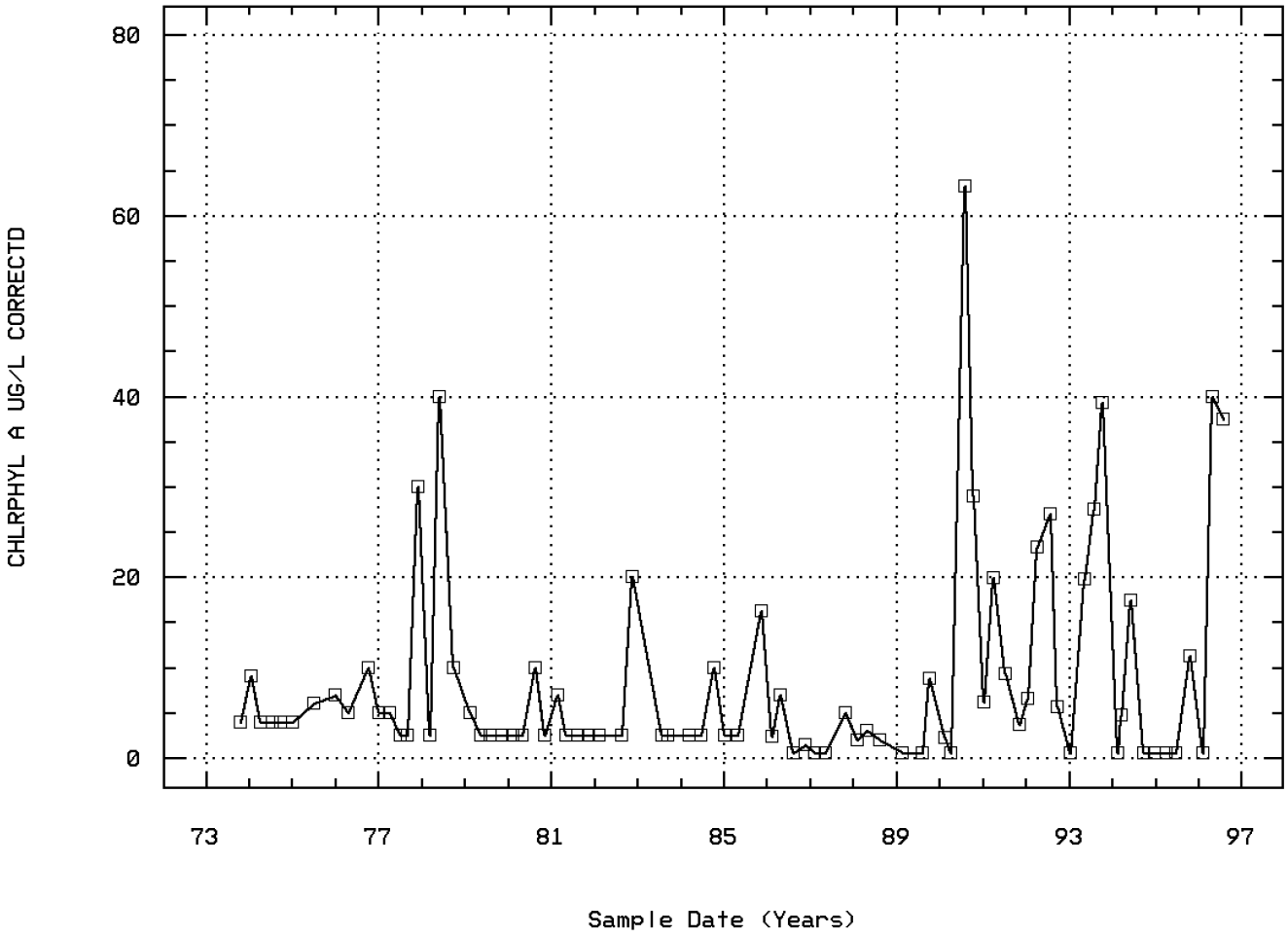
LAGUNA MADRE ICWW/BIRD ISLAND



LAGUNA MADRE ICWW/BIRD ISLAND

Station: PAIS0182 Parameter Code: 32211

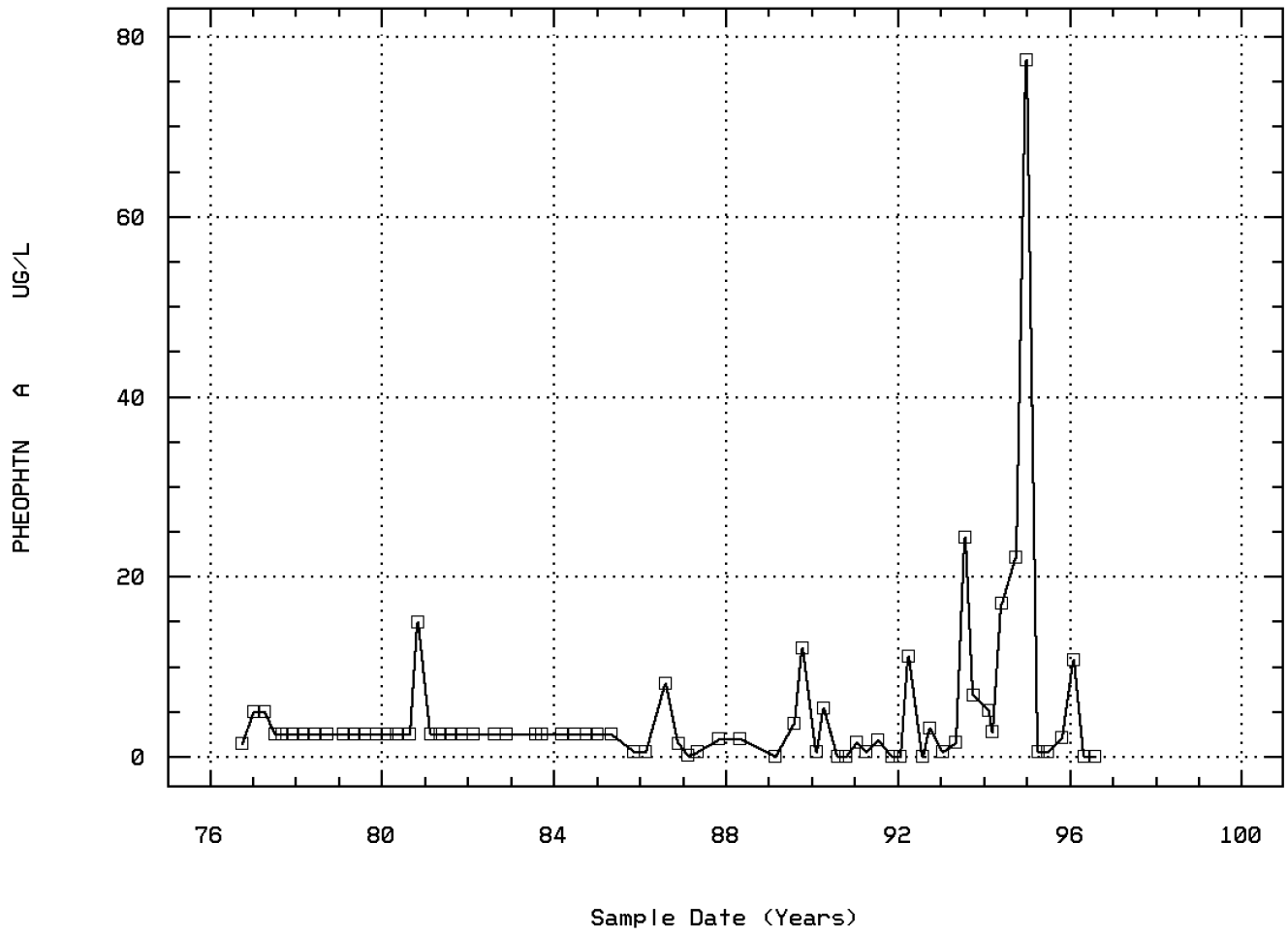
CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC A



LAGUNA MADRE ICWW/BIRD ISLAND

Station: PAIS0182 Parameter Code: 32218

PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC AC



LAGUNA MADRE ICWW/BIRD ISLAND

Annual Analysis for 1973 - Station PAIS0182

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/23/73-07/29/96	3	10.	7.	10.	1.	27.	5.196	**	**	**	**
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/23/73-07/29/96	2	16500.	16500.	18500.	14500.	8000000.	2828.427	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	10/23/73-07/29/96	2	8.25	8.25	8.3	8.2	0.005	0.071	**	**	**	**
00400p	PH (STANDARD UNITS)	10/23/73-07/29/96	2	8.5	8.5	8.5	8.5	0.	0.	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	10/23/73-07/29/96	2	8.5	8.5	8.5	8.5	0.	0.	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/23/73-07/29/96	2	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**

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

Annual Analysis for 1974 - Station PAIS0182

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/23/73-07/29/96	10	5.	5.9	15.	1.	25.656	5.065	1.	1.	10.	14.5
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/23/73-07/29/96	7	48000.	43985.714	52500.	32900.	77284761.905	8791.175	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	10/23/73-07/29/96	7	8.4	8.4	11.1	5.8	3.003	1.733	**	**	**	**
00400p	PH (STANDARD UNITS)	10/23/73-07/29/96	6	8.075	8.058	8.25	7.9	0.019	0.139	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	10/23/73-07/29/96	6	8.074	8.04	8.25	7.9	0.02	0.141	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/23/73-07/29/96	6	0.008	0.009	0.013	0.006	0.	0.003	**	**	**	**

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

Annual Analysis for 1975 - Station PAIS0182

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/23/73-07/29/96	14	10.	7.929	15.	1.	30.225	5.498	1.	1.	12.75	15.
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/23/73-07/29/96	8	45500.	44375.	53500.	27500.	87910714.286	9376.071	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	10/23/73-07/29/96	9	7.9	7.767	8.4	6.8	0.323	0.568	6.8	7.3	8.25	8.4
00400p	PH (STANDARD UNITS)	10/23/73-07/29/96	8	8.325	8.363	8.6	8.15	0.026	0.16	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	10/23/73-07/29/96	8	8.324	8.339	8.6	8.15	0.026	0.162	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/23/73-07/29/96	8	0.005	0.005	0.007	0.003	0.	0.002	**	**	**	**

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

Annual Analysis for 1976 - Station PAIS0182

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/23/73-07/29/96	10	10.	7.6	15.	1.	35.6	5.967	1.	1.	12.75	15.
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/23/73-07/29/96	6	52000.	50000.	54500.	43500.	21300000.	4615.192	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	10/23/73-07/29/96	6	7.55	7.633	8.8	6.5	0.907	0.952	**	**	**	**
00400p	PH (STANDARD UNITS)	10/23/73-07/29/96	4	8.35	8.175	8.4	7.6	0.149	0.386	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	10/23/73-07/29/96	4	8.347	8.021	8.4	7.6	0.181	0.425	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/23/73-07/29/96	4	0.004	0.01	0.025	0.004	0.	0.01	**	**	**	**

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

Annual Analysis for 1977 - Station PAIS0182

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/23/73-07/29/96	13	10.	6.846	14.	1.	27.474	5.242	1.	1.	11.	13.6
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/23/73-07/29/96	8	53000.	47500.	60000.	31000.	150285714.286	12259.107	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	10/23/73-07/29/96	7	6.5	7.214	10.	5.8	2.681	1.638	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 PAIS0182

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400p	PH (STANDARD UNITS)	10/23/73-07/29/96	6	8.15	8.2	8.55	8.	0.041	0.202	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	10/23/73-07/29/96	6	8.147	8.165	8.55	8.	0.042	0.206	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/23/73-07/29/96	6	0.007	0.007	0.01	0.003	0.	0.003	**	**	**	**

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

Annual Analysis for 1978 - Station PAIS0182

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/23/73-07/29/96	9	5.	6.444	15.	1.	25.528	5.053	1.	1.	10.	15.
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/23/73-07/29/96	6	57750.	56166.667	65000.	45500.	75866666.667	8710.147	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	10/23/73-07/29/96	4	6.45	7.075	9.4	6.	2.529	1.59	**	**	**	**
00400p	PH (STANDARD UNITS)	10/23/73-07/29/96	4	8.325	8.325	8.45	8.2	0.021	0.144	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	10/23/73-07/29/96	4	8.307	8.307	8.45	8.2	0.021	0.146	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/23/73-07/29/96	4	0.005	0.005	0.006	0.004	0.	0.002	**	**	**	**

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

Annual Analysis for 1979 - Station PAIS0182

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/23/73-07/29/96	13	10.	9.385	16.	1.	39.756	6.305	1.	1.	15.5	16.
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/23/73-07/29/96	8	48750.	49862.5	57100.	43200.	23451250.	4842.649	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	10/23/73-07/29/96	6	7.2	6.7	8.3	4.6	2.084	1.444	**	**	**	**
00400p	PH (STANDARD UNITS)	10/23/73-07/29/96	7	8.25	8.264	8.4	8.2	0.006	0.075	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	10/23/73-07/29/96	7	8.25	8.259	8.4	8.2	0.006	0.075	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/23/73-07/29/96	7	0.006	0.006	0.006	0.004	0.	0.001	**	**	**	**

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

Annual Analysis for 1980 - Station PAIS0182

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/23/73-07/29/96	11	10.	6.909	15.	1.	27.291	5.224	1.	1.	10.	14.4
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/23/73-07/29/96	7	50000.	49485.714	57500.	38100.	46788095.238	6840.182	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	10/23/73-07/29/96	5	7.3	7.32	9.	5.	2.317	1.522	**	**	**	**
00400p	PH (STANDARD UNITS)	10/23/73-07/29/96	7	7.8	7.843	8.5	6.7	0.403	0.635	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	10/23/73-07/29/96	7	7.8	7.401	8.5	6.7	0.631	0.794	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/23/73-07/29/96	7	0.016	0.04	0.2	0.003	0.005	0.071	**	**	**	**

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

Annual Analysis for 1981 - Station PAIS0182

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/23/73-07/29/96	13	10.	7.462	15.	1.	28.936	5.379	1.	1.	12.	14.6
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/23/73-07/29/96	8	49850.	48475.	52000.	42000.	16662142.857	4081.929	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	10/23/73-07/29/96	5	7.2	6.84	7.7	5.8	0.643	0.802	**	**	**	**
00400p	PH (STANDARD UNITS)	10/23/73-07/29/96	7	8.2	8.2	8.35	8.	0.019	0.138	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	10/23/73-07/29/96	7	8.2	8.181	8.35	8.	0.02	0.14	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/23/73-07/29/96	7	0.006	0.007	0.01	0.004	0.	0.002	**	**	**	**

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

Annual Analysis for 1982 - Station PAIS0182

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/23/73-07/29/96	11	5.	7.182	15.	1.	28.164	5.307	1.	1.	11.	15.
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/23/73-07/29/96	6	62050.	57733.333	66900.	46400.	78466666.667	8858.141	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	10/23/73-07/29/96	6	6.75	6.95	9.	5.5	1.891	1.375	**	**	**	**
00400p	PH (STANDARD UNITS)	10/23/73-07/29/96	7	8.	8.043	8.2	7.9	0.016	0.127	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	10/23/73-07/29/96	7	8.	8.027	8.2	7.9	0.016	0.128	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/23/73-07/29/96	7	0.01	0.009	0.013	0.006	0.	0.003	**	**	**	**

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

Annual Analysis for 1983 - Station PAIS0182

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/23/73-07/29/96	14	7.5	7.714	17.	1.	34.527	5.876	1.	1.	11.25	17.
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/23/73-07/29/96	8	49000.	48775.	55200.	39300.	27230714.286	5218.306	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	10/23/73-07/29/96	8	7.6	7.525	9.9	4.2	3.605	1.899	**	**	**	**
00400p	PH (STANDARD UNITS)	10/23/73-07/29/96	6	8.	8.117	8.6	7.5	0.178	0.422	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	10/23/73-07/29/96	6	8.	7.954	8.6	7.5	0.209	0.457	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/23/73-07/29/96	6	0.01	0.011	0.032	0.003	0.	0.011	**	**	**	**

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

Annual Analysis for 1984 - Station PAIS0182

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/23/73-07/29/96	13	10.	8.769	18.	1.	39.692	6.3	1.	3.	15.	18.
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/23/73-07/29/96	8	67000.	66000.	84000.	52500.	139642857.143	11817.058	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	10/23/73-07/29/96	6	6.1	6.017	6.6	5.5	0.17	0.412	**	**	**	**
00400p	PH (STANDARD UNITS)	10/23/73-07/29/96	6	8.3	8.167	8.35	7.85	0.052	0.227	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	10/23/73-07/29/96	6	8.3	8.113	8.35	7.85	0.055	0.235	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/23/73-07/29/96	6	0.005	0.008	0.014	0.004	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 box-and-whisker plot

Annual Analysis for 1985 - Station PAIS0182

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/23/73-07/29/96	12	5.	6.25	15.	1.	23.295	4.827	1.	1.	10.	13.8
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/23/73-07/29/96	7	55800.	57228.571	60600.	54700.	5692380.952	2385.871	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	10/23/73-07/29/96	7	7.	6.671	9.3	4.5	3.442	1.855	**	**	**	**
00400p	PH (STANDARD UNITS)	10/23/73-07/29/96	6	8.3	8.3	8.5	8.1	0.032	0.179	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	10/23/73-07/29/96	6	8.3	8.27	8.5	8.1	0.033	0.182	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/23/73-07/29/96	6	0.005	0.005	0.008	0.003	0.	0.002	**	**	**	**

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

Annual Analysis for 1986 - Station PAIS0182

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/23/73-07/29/96	17	7.	7.647	15.	1.	26.868	5.183	1.	3.	12.	15.
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/23/73-07/29/96	10	52300.	53430.	64600.	46100.	52953444.444	7276.912	46140.	46875.	58500.	64590.
00300p	OXYGEN, DISSOLVED MG/L	10/23/73-07/29/96	8	6.5	6.163	7.7	4.5	0.986	0.993	**	**	**	**

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

Annual Analysis for 1986 - Station PAIS0182

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400p	PH (STANDARD UNITS)	10/23/73-07/29/96	8	8.15	8.012	8.4	7.35	0.181	0.425	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	10/23/73-07/29/96	8	8.147	7.803	8.4	7.35	0.231	0.48	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/23/73-07/29/96	8	0.007	0.016	0.045	0.004	0.	0.018	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 PAIS0182

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/23/73-07/29/96	16	5.	6.938	15.	0.	30.196	5.495	0.7	1.	11.5	15.
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/23/73-07/29/96	11	56000.	53181.818	62100.	35600.	61723636.364	7856.439	37980.	47600.	59000.	62080.
00300p	OXYGEN, DISSOLVED MG/L	10/23/73-07/29/96	9	6.6	7.078	9.3	5.	2.152	1.467	5.	6.05	8.65	9.3
00400p	PH (STANDARD UNITS)	10/23/73-07/29/96	8	8.2	8.275	8.8	7.9	0.108	0.328	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	10/23/73-07/29/96	8	8.2	8.181	8.8	7.9	0.118	0.343	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/23/73-07/29/96	8	0.006	0.007	0.013	0.002	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 box-and-whisker plot

Annual Analysis for 1988 - Station PAIS0182

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/23/73-07/29/96	17	5.	7.824	16.	1.	30.529	5.525	1.	3.	14.	15.2
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/23/73-07/29/96	12	62800.	61850.	71900.	51100.	51848181.818	7200.568	51280.	54150.	67525.	71510.
00300p	OXYGEN, DISSOLVED MG/L	10/23/73-07/29/96	11	6.5	6.	8.2	2.6	2.7	1.643	2.96	4.8	6.8	8.16
00400p	PH (STANDARD UNITS)	10/23/73-07/29/96	9	8.4	8.38	8.78	8.06	0.078	0.279	8.06	8.07	8.61	8.78
00400p	CONVERTED PH (STANDARD UNITS)	10/23/73-07/29/96	9	8.4	8.306	8.78	8.06	0.084	0.289	8.06	8.07	8.61	8.78
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/23/73-07/29/96	9	0.004	0.005	0.009	0.002	0.	0.003	0.002	0.003	0.009	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

Annual Analysis for 1989 - Station PAIS0182

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/23/73-07/29/96	12	7.5	7.5	16.	1.	35.	5.916	1.	1.	13.75	15.7
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/23/73-07/29/96	9	66700.	64022.222	71000.	55300.	41906944.444	6473.557	55300.	56300.	69950.	71000.
00300p	OXYGEN, DISSOLVED MG/L	10/23/73-07/29/96	9	7.2	6.333	8.6	2.4	3.965	1.991	2.4	4.9	7.85	8.6
00400p	PH (STANDARD UNITS)	10/23/73-07/29/96	7	8.1	8.227	8.6	7.96	0.075	0.274	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	10/23/73-07/29/96	7	8.1	8.163	8.6	7.96	0.08	0.283	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/23/73-07/29/96	7	0.008	0.007	0.011	0.003	0.	0.003	**	**	**	**

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

Annual Analysis for 1990 - Station PAIS0182

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/23/73-07/29/96	15	5.	7.2	15.	1.	26.6	5.158	1.	1.	10.	15.
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/23/73-07/29/96	11	67100.	67145.455	77600.	55200.	70718727.273	8409.443	55220.	57700.	76700.	77580.
00300p	OXYGEN, DISSOLVED MG/L	10/23/73-07/29/96	10	6.7	6.48	7.5	4.9	0.953	0.976	4.94	5.3	7.275	7.5
00400p	PH (STANDARD UNITS)	10/23/73-07/29/96	10	8.45	8.38	8.6	8.	0.053	0.23	8.01	8.1	8.6	8.6
00400p	CONVERTED PH (STANDARD UNITS)	10/23/73-07/29/96	10	8.447	8.321	8.6	8.	0.057	0.238	8.01	8.1	8.6	8.6
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/23/73-07/29/96	10	0.004	0.005	0.01	0.003	0.	0.003	0.003	0.003	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 box-and-whisker plot

Annual Analysis for 1991 - Station PAIS0182

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/23/73-07/29/96	14	5.	6.714	15.	1.	24.835	4.983	1.	1.	10.	15.
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/23/73-07/29/96	10	59950.	59200.	66300.	51200.	42615555.556	6528.059	51340.	52825.	65400.	66240.
00300p	OXYGEN, DISSOLVED MG/L	10/23/73-07/29/96	10	6.4	6.52	8.7	4.1	2.122	1.457	4.14	5.625	7.525	8.65
00400p	PH (STANDARD UNITS)	10/23/73-07/29/96	9	8.3	8.311	8.4	8.2	0.006	0.078	8.2	8.25	8.4	8.4
00400p	CONVERTED PH (STANDARD UNITS)	10/23/73-07/29/96	9	8.3	8.305	8.4	8.2	0.006	0.078	8.2	8.25	8.4	8.4
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/23/73-07/29/96	9	0.005	0.005	0.006	0.004	0.	0.001	0.004	0.004	0.006	0.006

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

Annual Analysis for 1992 - Station PAIS0182

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/23/73-07/29/96	16	7.5	7.75	15.	1.	29.533	5.434	1.	2.	13.75	15.
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/23/73-07/29/96	12	40550.	42808.333	51900.	37000.	32849924.242	5731.485	37120.	38300.	49550.	51900.
00300p	OXYGEN, DISSOLVED MG/L	10/23/73-07/29/96	12	8.3	8.375	11.7	4.5	6.771	2.602	4.65	5.575	10.825	11.67
00400p	PH (STANDARD UNITS)	10/23/73-07/29/96	10	8.4	8.46	8.7	8.3	0.02	0.143	8.3	8.375	8.55	8.7
00400p	CONVERTED PH (STANDARD UNITS)	10/23/73-07/29/96	10	8.4	8.441	8.7	8.3	0.021	0.144	8.3	8.375	8.55	8.7
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/23/73-07/29/96	10	0.004	0.004	0.005	0.002	0.	0.001	0.002	0.003	0.004	0.005

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

Annual Analysis for 1993 - Station PAIS0182

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/23/73-07/29/96	24	4.	4.75	14.	1.	15.848	3.981	1.	1.	7.5	11.5
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/23/73-07/29/96	18	50850.	48127.778	52700.	36500.	29452712.418	5427.035	36770.	46200.	51600.	52610.
00300p	OXYGEN, DISSOLVED MG/L	10/23/73-07/29/96	17	7.2	6.888	9.3	3.7	2.504	1.582	4.26	5.8	8.2	8.74
00400p	PH (STANDARD UNITS)	10/23/73-07/29/96	16	8.26	8.34	8.8	8.08	0.058	0.24	8.094	8.125	8.55	8.8
00400p	CONVERTED PH (STANDARD UNITS)	10/23/73-07/29/96	16	8.26	8.287	8.8	8.08	0.061	0.247	8.094	8.125	8.55	8.8
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/23/73-07/29/96	16	0.005	0.005	0.008	0.002	0.	0.002	0.002	0.003	0.008	0.008

** - Less than 9 observations ## - Computed with 50% or 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 PAIS0182

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/23/73-07/29/96	40	5.	5.425	17.	1.	21.738	4.662	1.	1.	10.	11.9
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/23/73-07/29/96	30	55050.	55663.333	66400.	43800.	55081712.644	7421.706	46200.	47550.	62925.	66150.
00300p	OXYGEN, DISSOLVED MG/L	10/23/73-07/29/96	27	6.1	6.181	9.4	2.1	3.015	1.736	3.96	5.	7.4	8.58
00400p	PH (STANDARD UNITS)	10/23/73-07/29/96	28	8.325	8.295	8.69	7.75	0.054	0.232	7.999	8.085	8.495	8.553
00400p	CONVERTED PH (STANDARD UNITS)	10/23/73-07/29/96	28	8.324	8.233	8.69	7.75	0.058	0.241	7.999	8.085	8.495	8.553
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/23/73-07/29/96	28	0.005	0.006	0.018	0.002	0.	0.003	0.003	0.003	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 box-and-whisker plot

Annual Analysis for 1995 - Station PAIS0182

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/23/73-07/29/96	7	4.	3.571	7.	1.	7.286	2.699	**	**	**	**
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/23/73-07/29/96	4	52600.	52650.	61900.	43500.	109236666.667	10451.635	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	10/23/73-07/29/96	4	7.15	6.6	7.6	4.5	2.02	1.421	**	**	**	**

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

Annual Analysis for 1995 - Station PAIS0182

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400p	PH (STANDARD UNITS)	10/23/73-07/29/96	4	8.355	8.35	8.46	8.23	0.015	0.122	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	10/23/73-07/29/96	4	8.345	8.337	8.46	8.23	0.015	0.123	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/23/73-07/29/96	4	0.005	0.005	0.006	0.003	0.	0.001	**	**	**	**

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

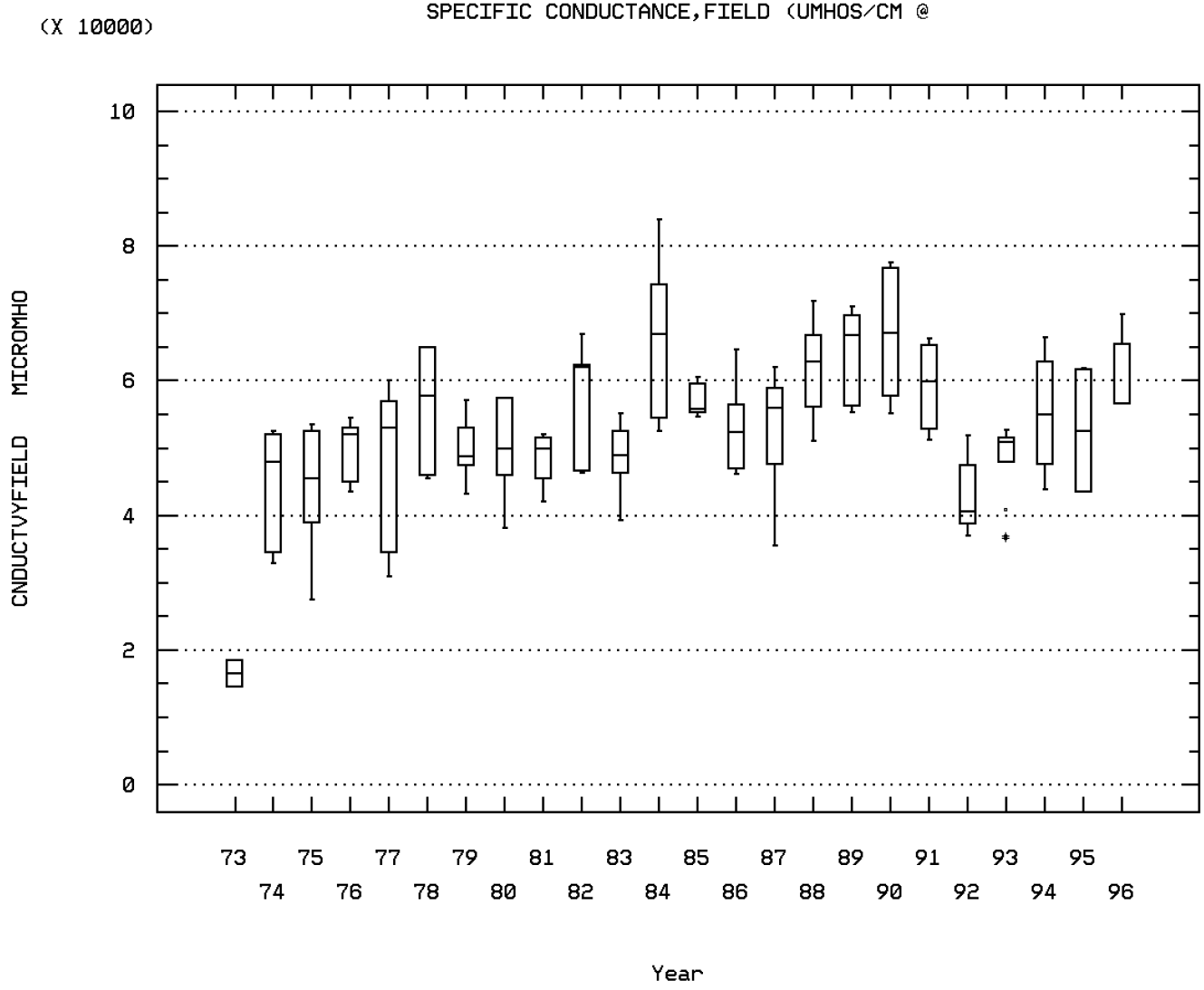
Annual Analysis for 1996 - Station PAIS0182

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/23/73-07/29/96	7	3.	4.429	12.	1.	17.286	4.158	**	**	**	**
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/23/73-07/29/96	5	65500.	62860.	69900.	56700.	34848000.	5903.219	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	10/23/73-07/29/96	5	8.	7.52	8.9	5.5	2.402	1.55	**	**	**	**
00400p	PH (STANDARD UNITS)	10/23/73-07/29/96	5	7.96	8.158	9.03	7.89	0.24	0.49	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	10/23/73-07/29/96	5	7.96	8.026	9.03	7.89	0.262	0.512	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/23/73-07/29/96	5	0.011	0.009	0.013	0.001	0.	0.005	**	**	**	**

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

Station: PAIS0182 Parameter Code: 00094

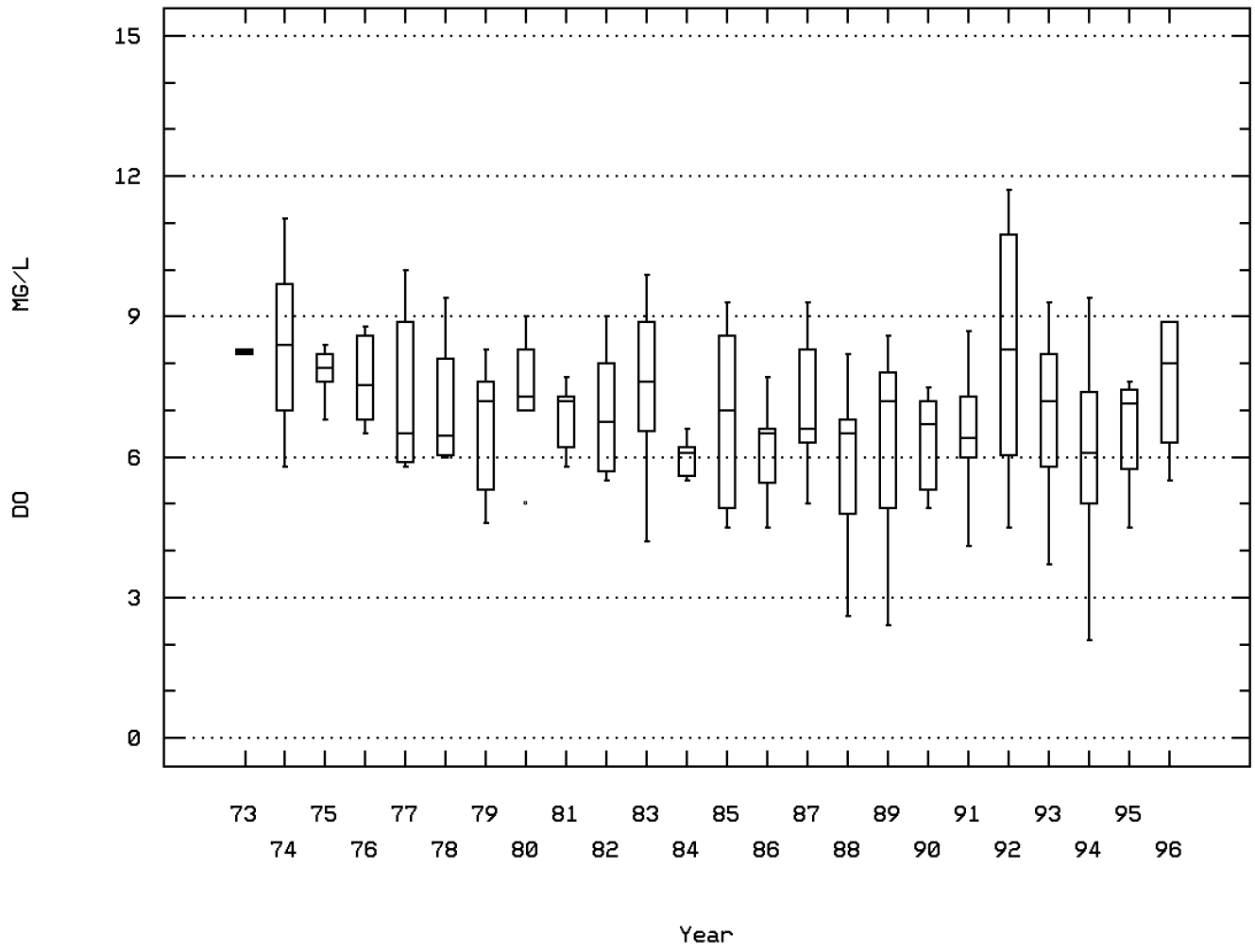
SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @



LAGUNA MADRE ICWW/BIRD ISLAND

Station: PAIS0182 Parameter Code: 00300

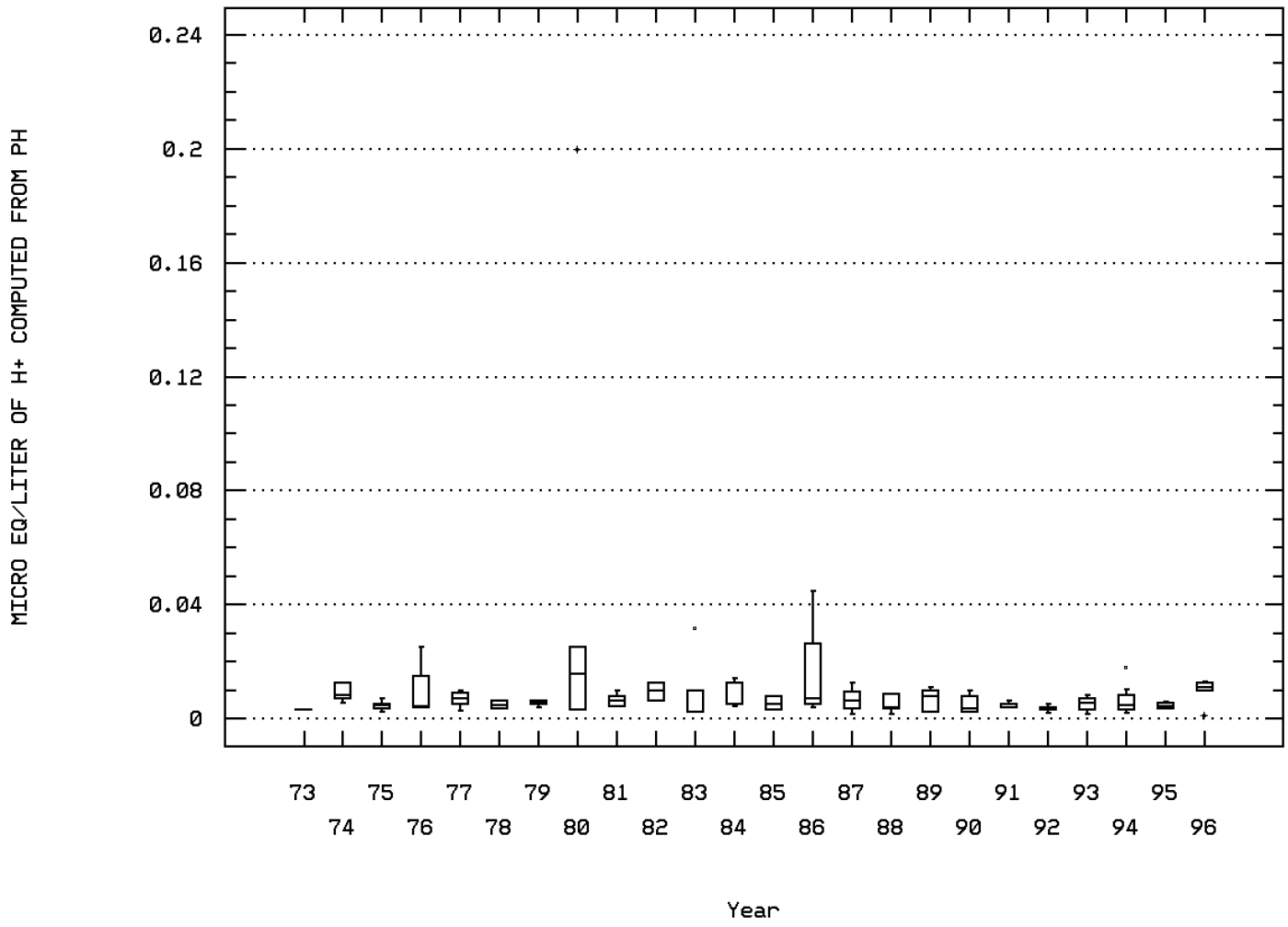
OXYGEN, DISSOLVED



LAGUNA MADRE ICWW/BIRD ISLAND

Station: PAIS0182 Parameter Code: 00400

MICRO EQ/LITER OF H+ COMPUTED FROM PH



LAGUNA MADRE ICWW/BIRD ISLAND

Seasonal Analysis for Season #1: 5/01 to 10/31 - Station PAIS0182

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/23/73-07/29/96	165	5.	7.055	18.	0.	29.088	5.393	1.	1.	10.	15.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/23/73-07/29/96	92	28.4	27.798	32.1	18.5	8.562	2.926	23.9	25.275	29.875	31.2
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	10/23/73-11/14/85	41	83.3	81.137	89.6	65.3	31.566	5.618	73.54	76.5	85.1	86.82
00077	TRANSPARENCY, SECCHI DISC (INCHES)	01/11/77-04/17/89	17	48.	46.882	84.	10.	497.985	22.316	16.4	29.	67.5	79.2
00078	TRANSPARENCY, SECCHI DISC (METERS)	08/08/89-07/29/96	22	0.3	0.496	2.	0.05	0.215	0.464	0.115	0.25	0.533	1.322
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/23/73-07/29/96	106	55200.	56201.887	84000.	14500.	129937139.263	11398.997	40560.	51200.	65050.	69760.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/23/73-02/02/88	20	51400.	54040.8	85176.	19152.	215582798.063	14682.738	34950.	48500.	59800.	78422.4
00300p	OXYGEN, DISSOLVED MG/L	10/23/73-07/29/96	96	6.2	6.089	9.9	2.1	2.065	1.437	4.47	5.	7.	7.93
00400p	PH (STANDARD UNITS)	10/23/73-07/29/96	94	8.4	8.353	9.03	6.7	0.09	0.299	8.055	8.2	8.5	8.635
00400p	CONVERTED PH (STANDARD UNITS)	10/23/73-07/29/96	94	8.4	8.146	9.03	6.7	0.133	0.365	8.055	8.2	8.5	8.635
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/23/73-07/29/96	94	0.004	0.007	0.2	0.001	0.	0.02	0.002	0.003	0.006	0.009
00403	PH, LAB, STANDARD UNITS SU	10/23/73-02/02/88	26	8.3	8.277	8.7	7.6	0.057	0.239	8.	8.1	8.4	8.63
00403	CONVERTED PH, LAB, STANDARD UNITS	10/23/73-02/02/88	26	8.3	8.207	8.7	7.6	0.062	0.249	8.	8.1	8.4	8.63
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/23/73-02/02/88	26	0.005	0.006	0.025	0.002	0.	0.004	0.002	0.004	0.008	0.01
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/07/76-07/29/96	39	130.	133.667	203.	67.	769.439	27.739	101.	112.	151.	168.
00480	SALINITY - PARTS PER THOUSAND	11/14/85-07/29/96	36	37.7	38.342	53.7	23.1	62.123	7.882	25.5	34.125	44.55	45.81
00496	LOSS ON IGNITION, BOTTOM DEPOSITS (MG/KG)	04/26/76-08/08/89	9	78700.	68802.778	133600.	9700.	1628566319.444	40355.499	9700.	31112.5	98150.	133600.
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/23/73-07/29/96	45	25.	36.467	160.	6.	974.8	31.222	12.4	16.	41.5	87.4
00535p	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	10/23/73-07/29/96	45	10.	14.533	54.	3.	133.891	11.571	4.6	7.	17.5	34.4
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/23/73-07/29/96	44	0.025	0.08	1.1	0.005	0.032	0.18	0.01	0.02	0.053	0.205
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/07/76-09/26/94	24 ##	0.015	0.019	0.09	0.005	0.	0.017	0.008	0.01	0.02	0.035
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	10/23/73-09/26/94	40 ##	0.015	0.029	0.12	0.005	0.001	0.029	0.005	0.01	0.04	0.088
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	10/23/73-11/14/85	24	0.12	0.136	0.55	0.03	0.01	0.101	0.075	0.09	0.143	0.245
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	10/23/73-11/14/85	23 ##	0.015	0.028	0.09	0.015	0.	0.019	0.015	0.015	0.03	0.06
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	10/23/73-07/29/96	44	0.045	0.054	0.24	0.01	0.002	0.04	0.03	0.03	0.058	0.085
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	10/23/73-08/08/89	11	270.	611.727	3620.	49.	1018228.818	1009.073	73.2	200.	510.	3004.
00671p	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/23/73-07/29/96	43	0.02	0.023	0.07	0.005	0.	0.021	0.005	0.005	0.04	0.06
00680p	CARBON, TOTAL ORGANIC (MG/L AS C)	07/17/74-07/29/96	39	8.	8.544	45.	0.5	72.577	8.519	0.5	1.	11.	17.
00940p	CHLORIDE,TOTAL IN WATER MG/L	10/23/73-07/29/96	45	20442.	19443.311	27300.	282.	30894165.856	5558.252	12480.	17350.	23115.	25487.
00945p	SULFATE, TOTAL (MG/L AS SO4)	10/23/73-07/29/96	44	2941.	2882.773	4800.	121.	783934.831	885.401	1700.	2600.	3400.	3900.
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	10/23/73-08/08/89	11	3.3	3.718	7.2	0.1	5.752	2.398	0.28	1.	5.6	7.14
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	04/26/76-08/08/89	9	360.	395.111	830.	58.	80356.861	283.473	58.	95.	635.	830.
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	10/23/73-08/08/89	10	0.695	0.694	1.4	0.1	0.154	0.392	0.11	0.388	0.95	1.37
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	10/23/73-08/08/89	11	11.	13.736	30.	0.4	83.133	9.118	1.1	7.8	22.	28.4
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	10/23/73-08/08/89	11	12.	12.818	26.	0.1	60.12	7.754	0.94	7.9	19.	25.
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	10/23/73-08/08/89	11	18.	16.164	25.	0.5	65.785	8.111	1.26	13.	24.	25.
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	10/23/73-08/08/89	11	150.	213.818	670.	22.	42511.764	206.184	28.	91.	220.	646.
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	10/23/73-08/08/89	11	9.3	9.673	18.	0.1	30.148	5.491	1.1	5.1	15.	17.6
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	10/23/73-08/08/89	10	55.5	53.9	110.	8.	1032.767	32.137	8.6	29.	77.	107.6
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	10/23/73-05/01/85	19 ##	2.	3.658	20.	0.	23.696	4.868	0.	0.	5.	10.
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	10/23/73-05/01/85	19 ##	0.301	0.347	1.301	-0.301	0.233	0.482	0.	0.	0.699	1.
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			2.223								
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/23/73-07/29/96	21 ##	1.5	4.286	23.	1.	33.389	5.778	1.1	1.5	4.5	15.6
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/23/73-07/29/96	21 ##	0.176	0.406	1.362	0.	0.158	0.398	0.035	0.176	0.628	1.184
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			2.549								
32211p	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	10/23/73-07/29/96	41	4.	10.493	63.2	0.5	198.416	14.086	0.5	2.5	10.65	35.78
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	10/07/76-07/29/96	36 ##	2.5	4.091	24.3	0.	33.337	5.774	0.	1.505	2.5	13.57
39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	04/09/75-08/08/89	10 ##	0.375	0.375	0.5	0.25	0.017	0.132	0.25	0.25	0.5	0.5
39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	04/09/75-08/08/89	10 ##	4.	4.05	10.	1.5	6.747	2.598	1.5	1.5	5.	9.5
39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	04/09/75-08/08/89	10 ##	1.5	2.3	4.	1.5	1.178	1.085	1.5	1.5	3.25	4.
39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	04/09/75-08/08/89	10 ##	0.875	1.425	3.25	0.75	1.015	1.007	0.75	0.75	1.938	3.25
39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	04/09/75-08/08/89	11 ##	1.5	2.182	4.	0.005	1.511	1.229	0.304	1.5	3.	4.
39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	04/09/75-08/08/89	10 ##	1.	1.05	1.5	1.	0.025	0.158	1.	1.	1.	1.45
39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	04/09/75-08/08/89	10 ##	1.5	1.5	1.5	1.5	0.	0.	1.5	1.5	1.5	1.5
39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	04/09/75-08/08/89	10 ##	25.	25.	25.	25.	0.	0.	25.	25.	25.	25.
39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	04/09/75-08/08/89	10 ##	0.25	0.275	0.5	0.25	0.006	0.079	0.25	0.25	0.25	0.475
39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	04/09/75-08/08/89	10 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	04/09/75-08/08/89	10 ##	5.	5.5	10.	5.	2.5	1.581	5.	5.	5.	9.5
39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	04/09/75-08/08/89	10 ##	10.	15.5	50.	10.	169.167	13.006	10.	10.	13.75	47.5

** - 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 #1: 5/01 to 10/31 - Station PAIS0182

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39541	PARATHION IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	04/09/75-08/08/89	10 ##	1.5	1.6	2.5	1.5	0.1	0.316	1.5	1.5	1.5	2.4
39571	DIAZINON IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	04/09/75-08/08/89	10 ##	2.5	2.5	2.5	2.5	0.	0.	2.5	2.5	2.5	2.5
39783	LINDANE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	04/09/75-08/08/89	10 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	10/23/73-08/08/89	11	0.04	0.042	0.1	0.01	0.001	0.025	0.011	0.025	0.05	0.092
72053	DAYS SINCE PRECIPITATION EVENT DAYS	10/12/89-07/29/96	19	5.	4.053	5.	0.5	2.914	1.707	0.5	3.	5.	5.

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

Seasonal Analysis for Season #2: 11/01 to 4/30 - Station PAIS0182

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/23/73-07/29/96	166	5.	6.614	16.	1.	24.82	4.982	1.	1.	10.	15.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/23/73-07/29/96	95	18.9	18.653	29.3	8.1	20.937	4.576	12.2	15.3	22.2	24.36
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	10/23/73-11/14/85	38	63.95	65.161	83.1	48.2	67.218	8.199	54.05	59.975	71.6	75.38
00077	TRANSPARENCY, SECCHI DISC (INCHES)	01/11/77-04/17/89	22	45.	51.227	96.	16.	638.946	25.277	19.8	34.	77.25	94.2
00078	TRANSPARENCY, SECCHI DISC (METERS)	08/08/89-07/29/96	22	0.65	0.802	2.	0.25	0.256	0.506	0.3	0.3	1.05	1.646
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/23/73-07/29/96	115	51100.	51277.391	70600.	27500.	78845273.837	8879.486	39860.	46200.	56700.	64140.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/23/73-02/02/88	18	46140.	51105.556	95480.	40200.	189689271.673	13772.773	41460.	43127.5	54929.25	76227.2
00300p	OXYGEN, DISSOLVED MG/L	10/23/73-07/29/96	104	7.7	7.649	11.7	4.1	2.234	1.495	5.65	6.625	8.6	9.35
00400p	PH (STANDARD UNITS)	10/23/73-07/29/96	96	8.2	8.152	8.7	7.35	0.058	0.241	7.9	8.003	8.3	8.4
00400p	CONVERTED PH (STANDARD UNITS)	10/23/73-07/29/96	96	8.2	8.074	8.7	7.35	0.064	0.254	7.9	8.003	8.3	8.4
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/23/73-07/29/96	96	0.006	0.008	0.045	0.002	0.	0.007	0.004	0.005	0.01	0.013
00403	PH, LAB, STANDARD UNITS SU	10/23/73-02/02/88	26	8.2	8.227	8.7	7.6	0.054	0.232	7.94	8.1	8.325	8.6
00403	CONVERTED PH, LAB, STANDARD UNITS	10/23/73-02/02/88	26	8.2	8.162	8.7	7.6	0.058	0.242	7.94	8.1	8.325	8.6
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/23/73-02/02/88	26	0.006	0.007	0.025	0.002	0.	0.005	0.003	0.005	0.008	0.012
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/07/76-07/29/96	39	150.	159.385	596.	114.	5477.401	74.009	120.	132.	162.	175.
00480	SALINITY - PARTS PER THOUSAND	11/14/85-07/29/96	42	34.	35.062	48.3	23.4	40.779	6.386	27.89	30.55	38.575	44.44
00496	LOSS ON IGNITION, BOTTOM DEPOSITS (MG/KG)	04/26/76-08/08/89	3	103064.	94346.	148500.	31474.	3480773812.	58998.083	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/23/73-07/29/96	45	23.	33.011	190.	2.5	1129.437	33.607	7.6	12.	45.	64.
00535p	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	10/23/73-07/29/96	45	10.	11.956	90.	2.	219.441	14.814	2.5	4.5	13.	25.6
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/23/73-07/29/96	45	0.03	0.085	0.51	0.005	0.015	0.124	0.005	0.02	0.095	0.234
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/07/76-09/26/94	22 ##	0.015	0.011	0.015	0.005	0.	0.005	0.005	0.005	0.015	0.015
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	10/23/73-09/26/94	39 ##	0.015	0.053	1.2	0.005	0.036	0.19	0.005	0.005	0.03	0.07
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	10/23/73-11/14/85	21	0.09	0.106	0.52	0.015	0.011	0.104	0.024	0.06	0.105	0.198
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	10/23/73-11/14/85	21 ##	0.015	0.054	0.46	0.015	0.01	0.098	0.015	0.015	0.045	0.118
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	10/23/73-07/29/96	44	0.035	0.045	0.17	0.005	0.001	0.034	0.015	0.03	0.058	0.075
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	10/23/73-08/08/89	4	603.5	702.25	1600.	2.	467030.917	683.397	**	**	**	**
00671p	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/23/73-07/29/96	43	0.02	0.021	0.07	0.005	0.	0.018	0.005	0.005	0.03	0.046
00680p	CARBON, TOTAL ORGANIC (MG/L AS C)	07/17/74-07/29/96	40	6.	5.688	17.	0.5	20.74	4.554	0.5	1.25	7.75	11.9
00940p	CHLORIDE,TOTAL IN WATER MG/L	10/23/73-07/29/96	45	17800.	18741.111	30200.	11000.	17588823.419	4193.903	13088.	16040.	21807.5	24039.6
00945p	SULFATE, TOTAL (MG/L AS SO4)	10/23/73-07/29/96	45	2620.	2700.267	4140.	1470.	416970.882	645.733	1862.	2330.	3220.	3623.2
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	10/23/73-08/08/89	3	4.1	4.933	7.8	2.9	6.523	2.554	**	**	**	**
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	04/26/76-08/08/89	3	507.	400.	650.	43.	100699.	317.331	**	**	**	**
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	10/23/73-08/08/89	4 ##	0.775	0.913	2.	0.1	0.661	0.813	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	10/23/73-08/08/89	4	18.5	21.25	34.	14.	80.917	8.995	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	10/23/73-08/08/89	4	17.	16.5	21.	11.	17.667	4.203	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	10/23/73-08/08/89	4	12.	12.625	26.	0.5	125.563	11.205	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	10/23/73-08/08/89	4	285.	283.25	403.	160.	13595.583	116.6	**	**	**	**
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	10/23/73-08/08/89	4	15.	14.25	18.	9.	14.917	3.862	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	10/23/73-08/08/89	3	76.	79.333	88.	74.	57.333	7.572	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	10/23/73-05/01/85	18 ##	1.5	2.778	10.	0.	8.389	2.896	0.	0.	5.	5.5
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	10/23/73-05/01/85	18 ##	0.151	0.311	1.	-0.301	0.174	0.417	0.	0.	0.699	0.729
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			2.045								
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/23/73-07/29/96	28 ##	1.5	5.643	47.	1.	108.646	10.423	1.	1.	4.25	23.4
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/23/73-07/29/96	28 ##	0.176	0.371	1.672	0.	0.242	0.492	0.	0.	0.599	1.369
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			2.35								
32211p	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	10/23/73-07/29/96	43	3.	6.267	39.9	0.5	71.136	8.434	0.5	2.	6.6	19.96

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

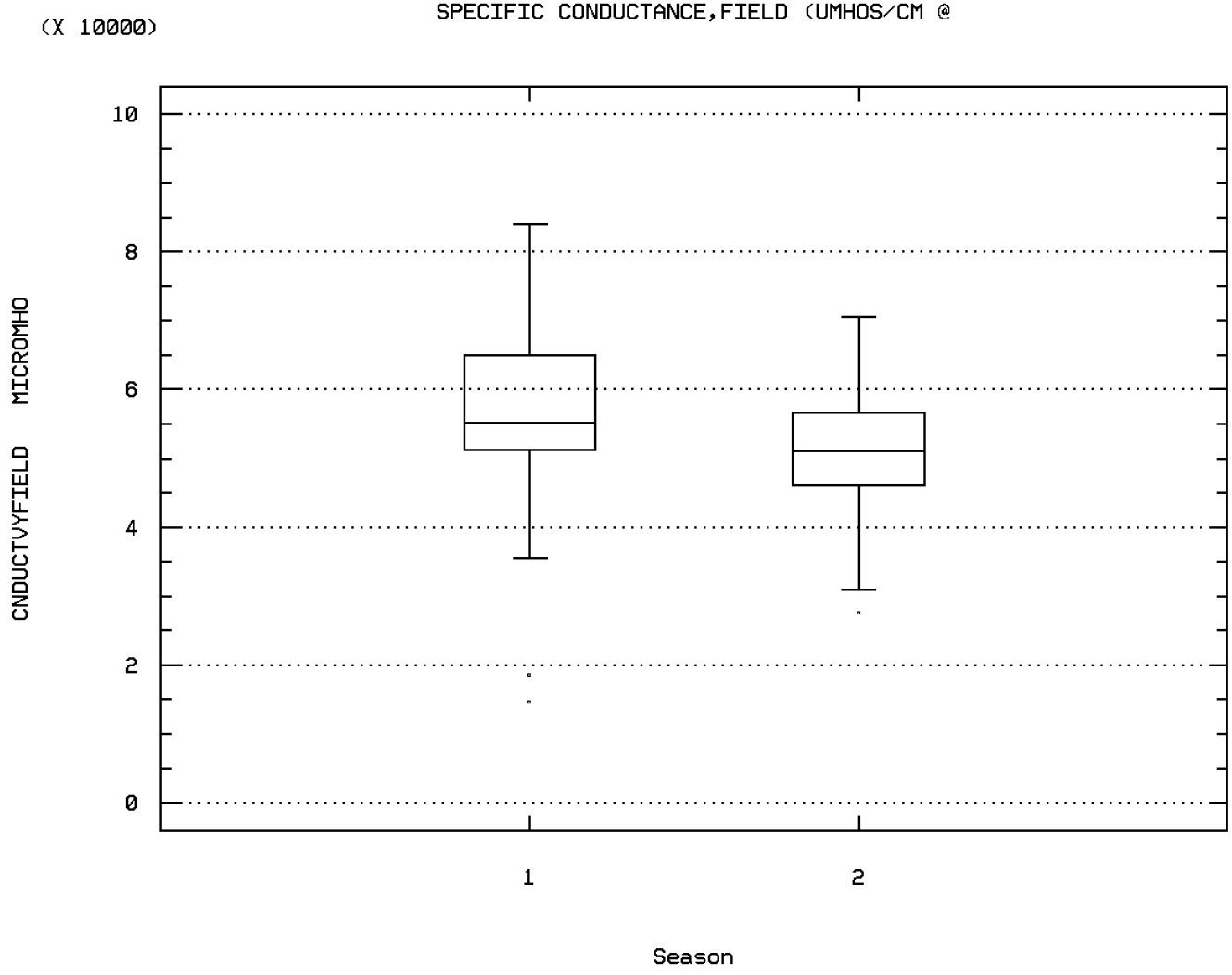
Seasonal Analysis for Season #2: 11/01 to 4/30 - Station PAIS0182

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	10/07/76-07/29/96	38 ##	2.5	4.693	77.4	0.	157.246	12.54	0.	0.5	2.575	10.83
39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	04/09/75-08/08/89	4 ##	0.25	0.25	0.5	0.	0.083	0.289	**	**	**	**
39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	04/09/75-08/08/89	4 ##	0.75	1.125	3.	0.	2.063	1.436	**	**	**	**
39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	04/09/75-08/08/89	3	0.	0.5	1.5	0.	0.75	0.866	**	**	**	**
39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	04/09/75-08/08/89	4 ##	0.375	0.563	1.5	0.	0.516	0.718	**	**	**	**
39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	04/09/75-08/08/89	4 ##	0.75	1.125	3.	0.	2.063	1.436	**	**	**	**
39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	04/09/75-08/08/89	4 ##	0.5	0.5	1.	0.	0.333	0.577	**	**	**	**
39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	04/09/75-08/08/89	4 ##	0.75	0.75	1.5	0.	0.75	0.866	**	**	**	**
39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	04/09/75-08/08/89	4 ##	12.5	12.5	25.	0.	208.333	14.434	**	**	**	**
39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	04/09/75-08/08/89	4 ##	0.125	0.125	0.25	0.	0.021	0.144	**	**	**	**
39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	04/09/75-08/08/89	4 ##	0.25	0.25	0.5	0.	0.083	0.289	**	**	**	**
39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	04/09/75-08/08/89	4 ##	2.5	2.5	5.	0.	8.333	2.887	**	**	**	**
39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	04/09/75-08/08/89	4 ##	48.	63.25	147.	10.	4400.917	66.339	**	**	**	**
39541	PARATHION IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	04/09/75-08/08/89	4 ##	0.75	0.75	1.5	0.	0.75	0.866	**	**	**	**
39571	DIAZINON IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	04/09/75-08/08/89	4 ##	1.25	1.25	2.5	0.	2.083	1.443	**	**	**	**
39783	LINDANE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	04/09/75-08/08/89	4 ##	0.25	0.25	0.5	0.	0.083	0.289	**	**	**	**
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	10/23/73-08/08/89	4	0.13	1.328	5.	0.05	5.999	2.449	**	**	**	**
72053	DAYS SINCE PRECIPITATION EVENT DAYS	10/12/89-07/29/96	20	5.	3.75	5.	0.5	2.803	1.674	1.	2.125	5.	5.

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

Station: PAIS0182 Parameter Code: 00094

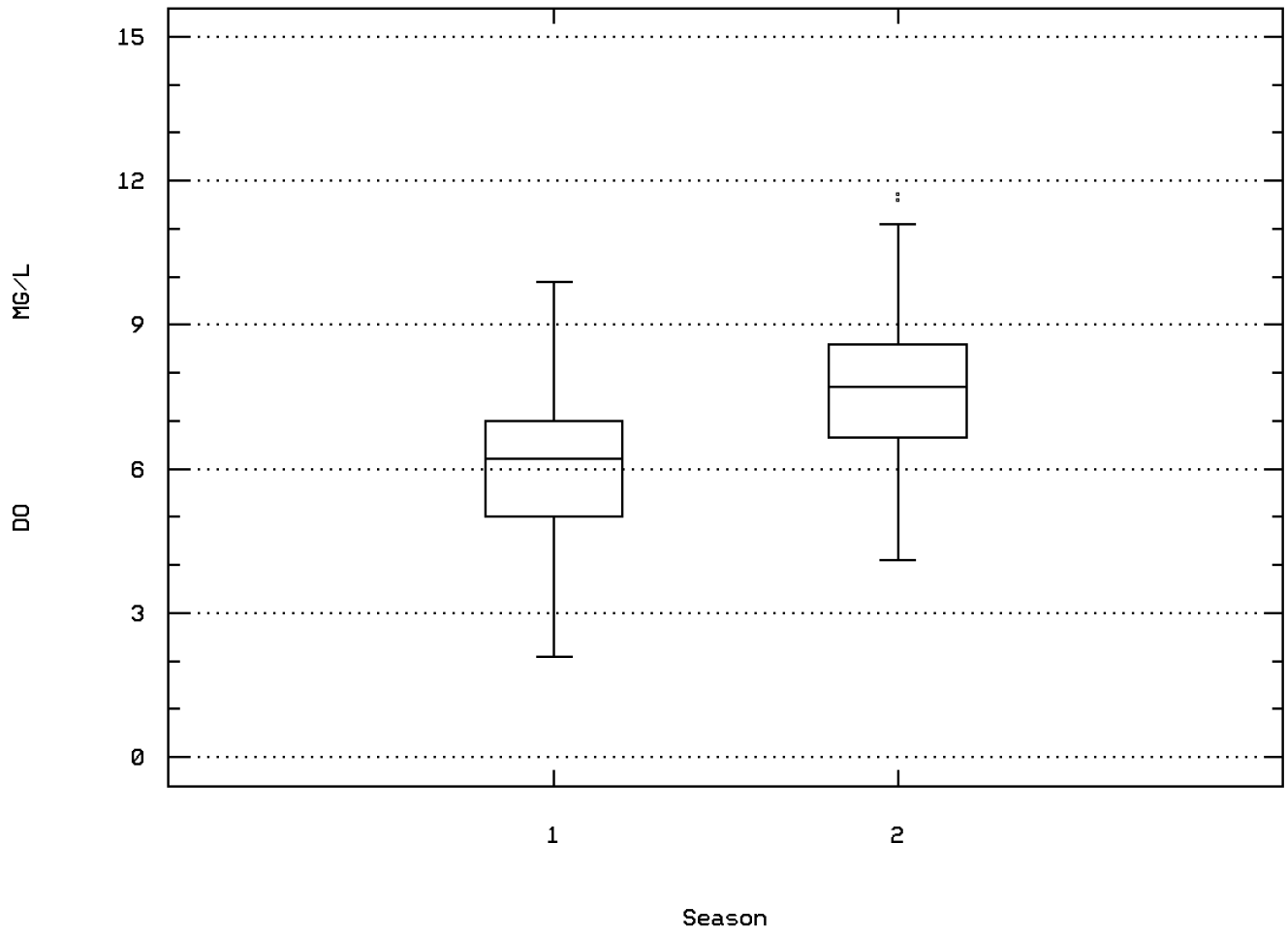
SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @



LAGUNA MADRE ICWW/BIRD ISLAND

Station: PAIS0182 Parameter Code: 00300

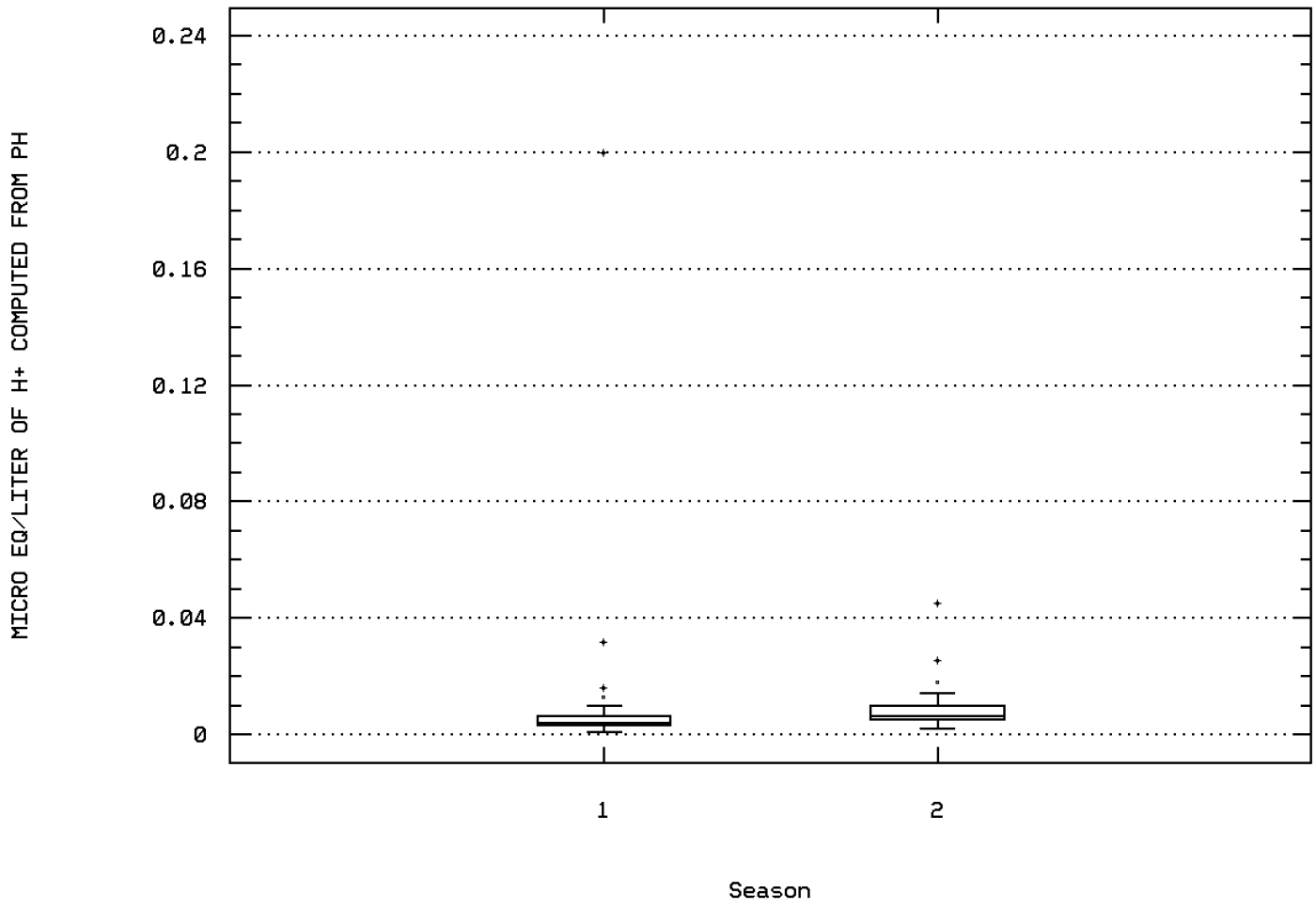
OXYGEN, DISSOLVED



LAGUNA MADRE ICWW/BIRD ISLAND

Station: PAIS0182 Parameter Code: 00400

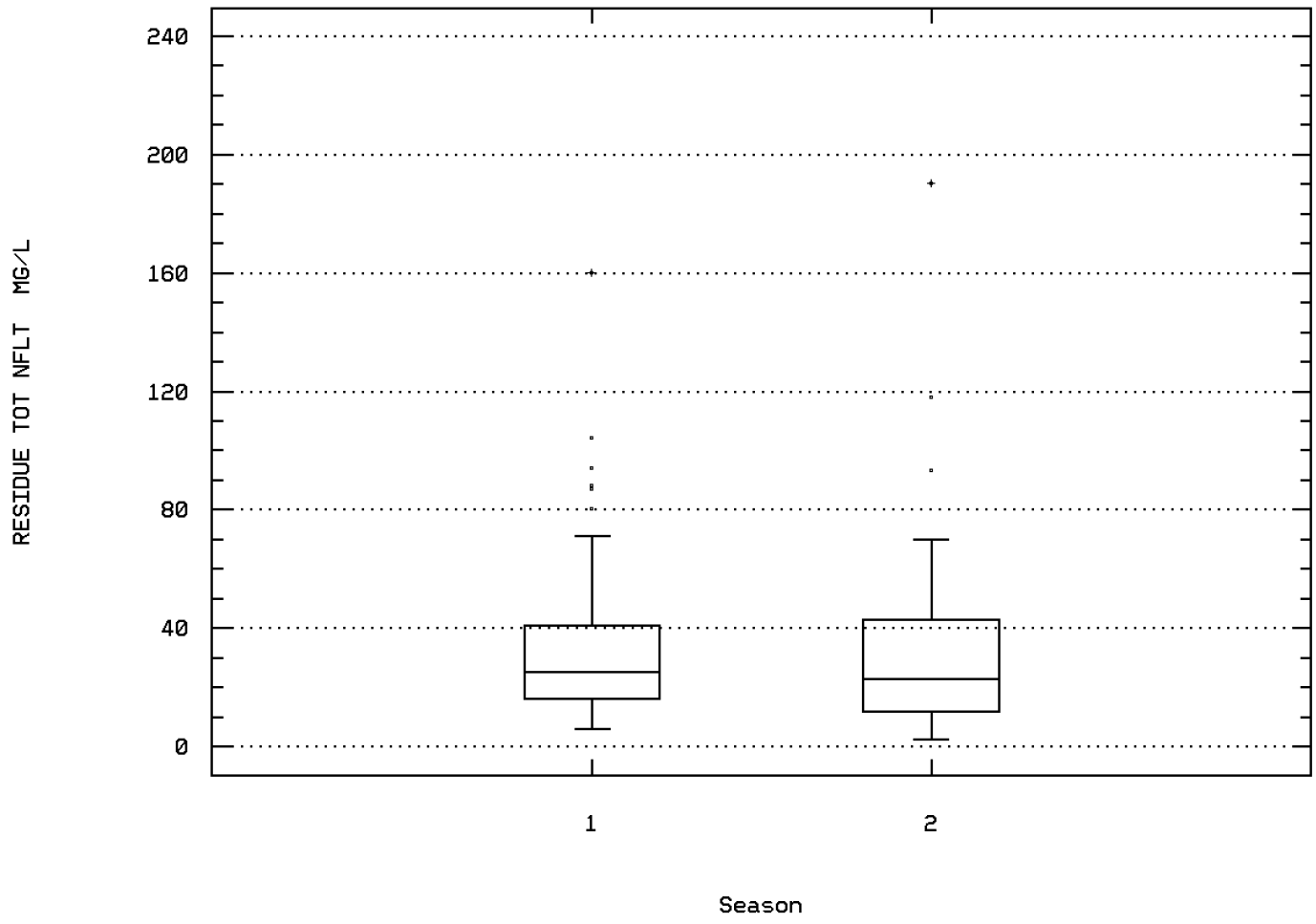
MICRO EQ/LITER OF H+ COMPUTED FROM PH



LAGUNA MADRE ICWW/BIRD ISLAND

Station: PAIS0182 Parameter Code: 00530

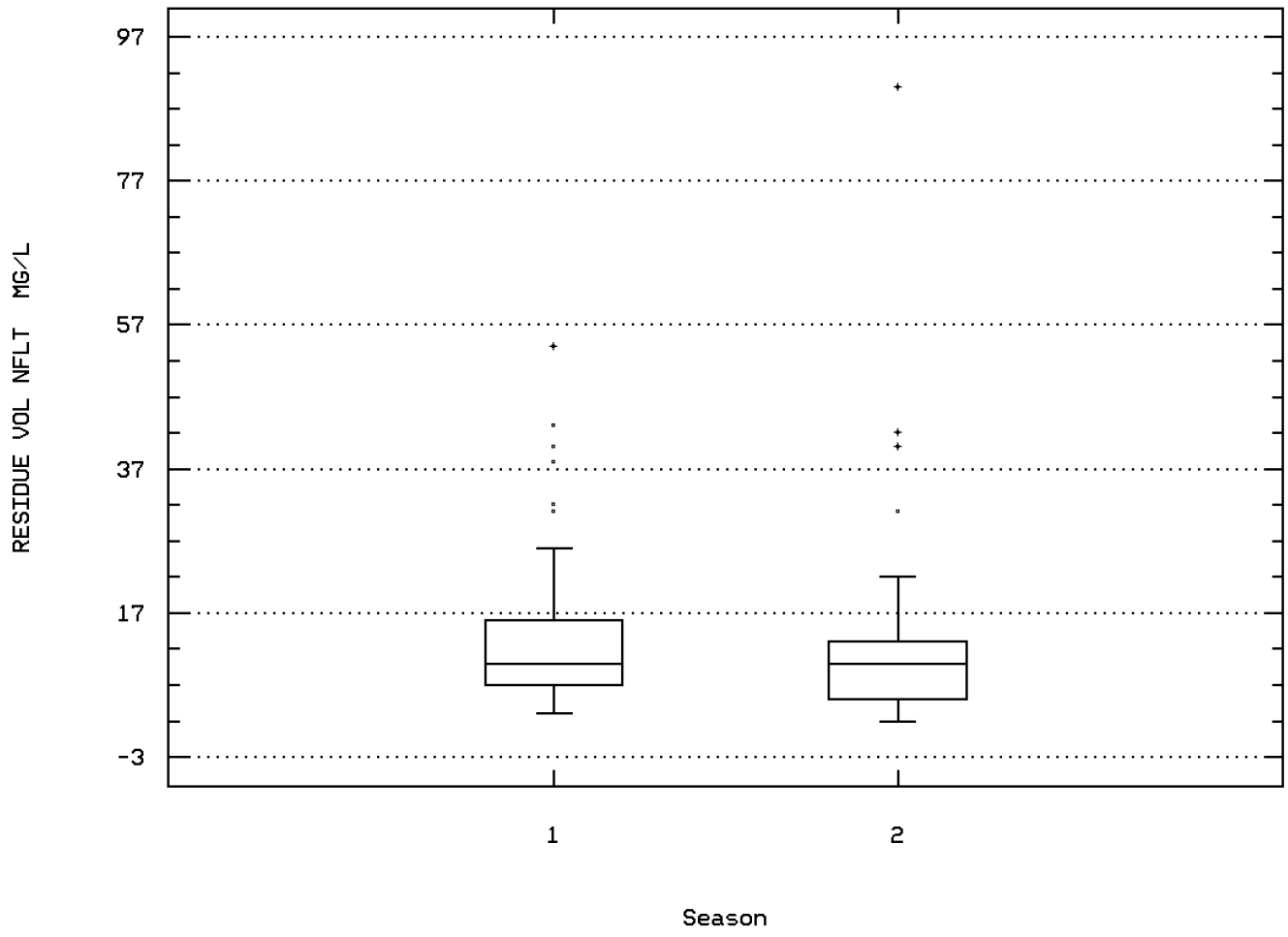
RESIDUE, TOTAL NONFILTRABLE (MG/L)



LAGUNA MADRE ICWW/BIRD ISLAND

Station: PAIS0182 Parameter Code: 00535

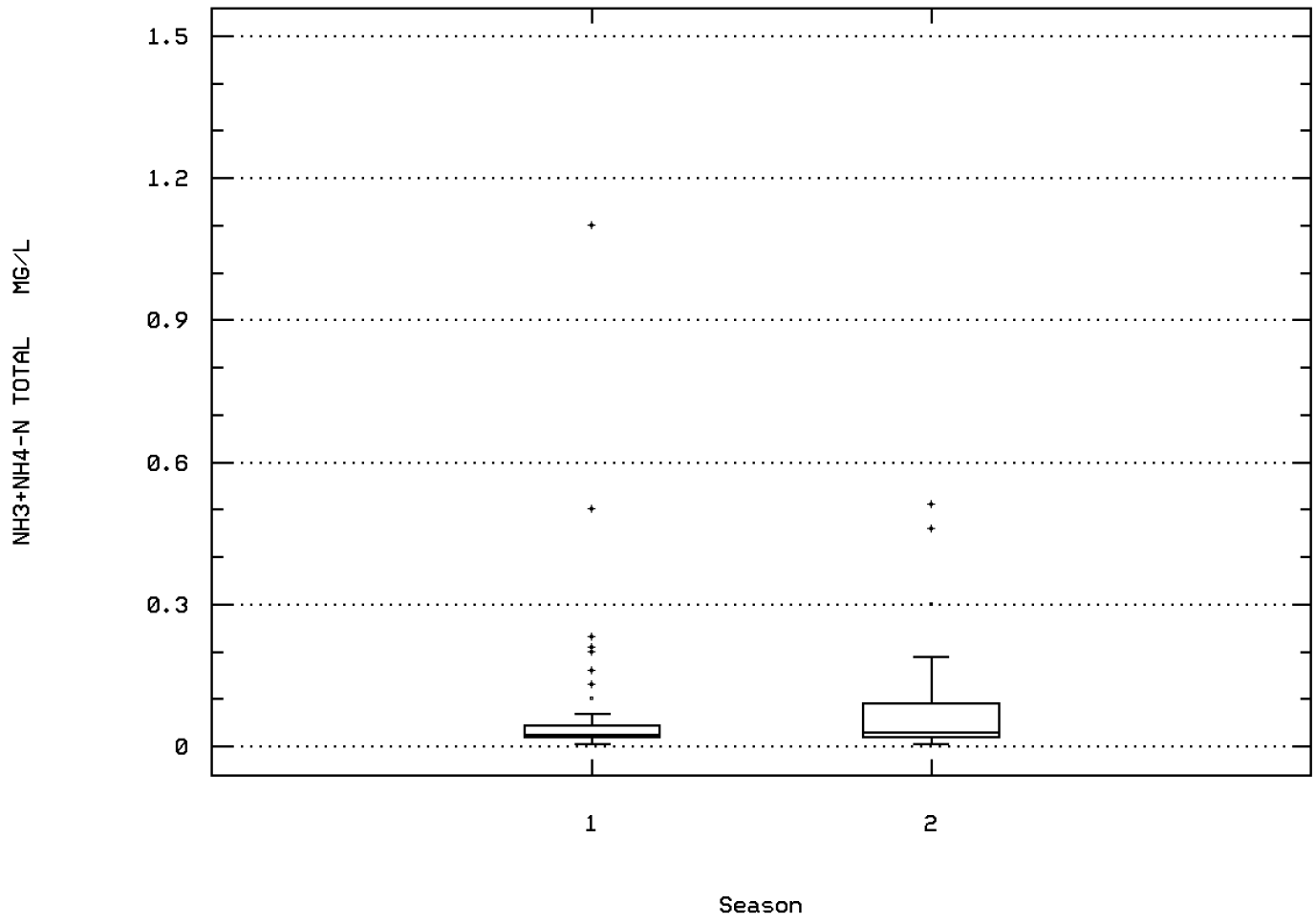
RESIDUE, VOLATILE NONFILTRABLE (MG/L)



LAGUNA MADRE ICWW/BIRD ISLAND

Station: PAIS0182 Parameter Code: 00610

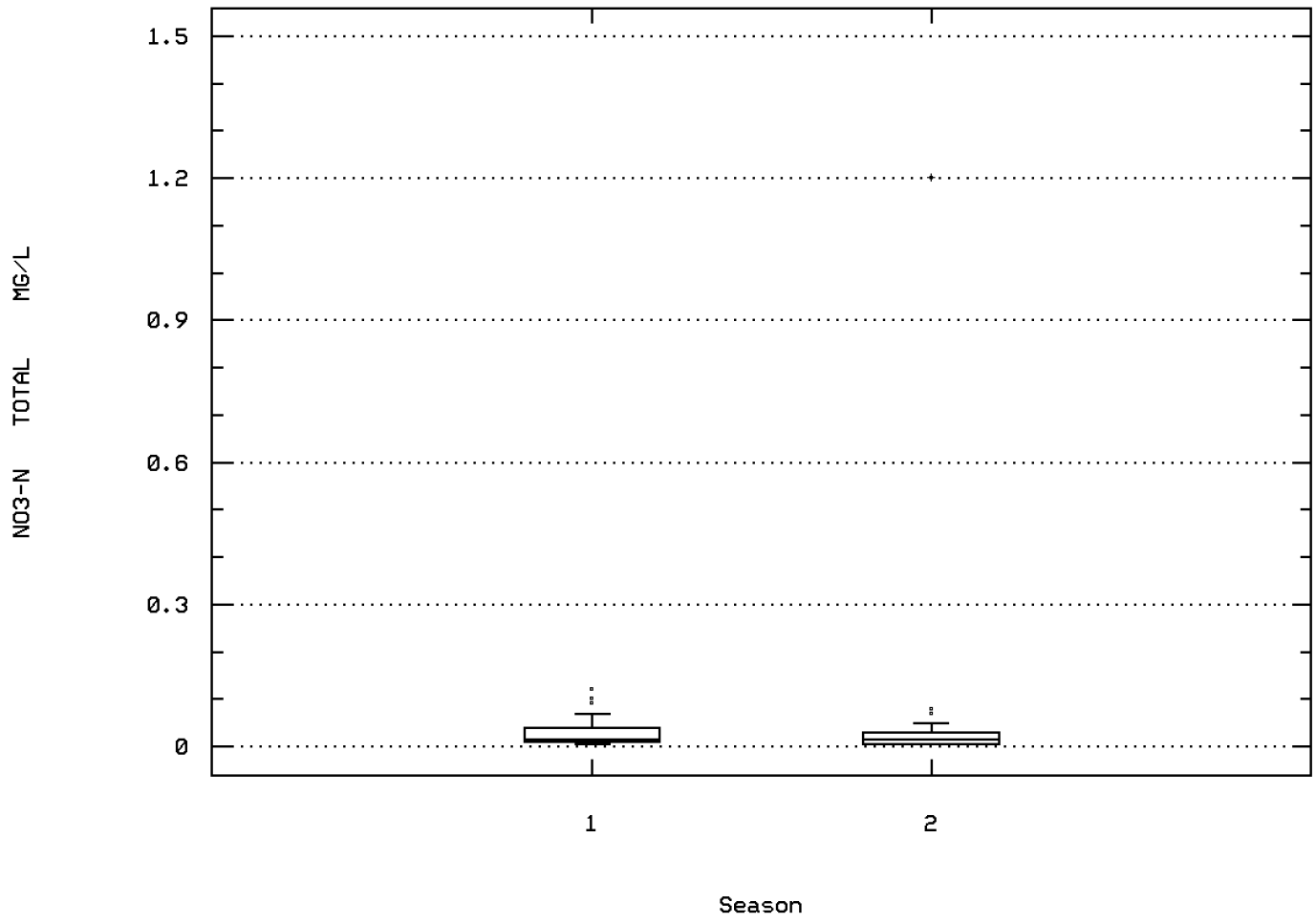
NITROGEN, AMMONIA, TOTAL (MG/L AS N)



LAGUNA MADRE ICWW/BIRD ISLAND

Station: PAIS0182 Parameter Code: 00620

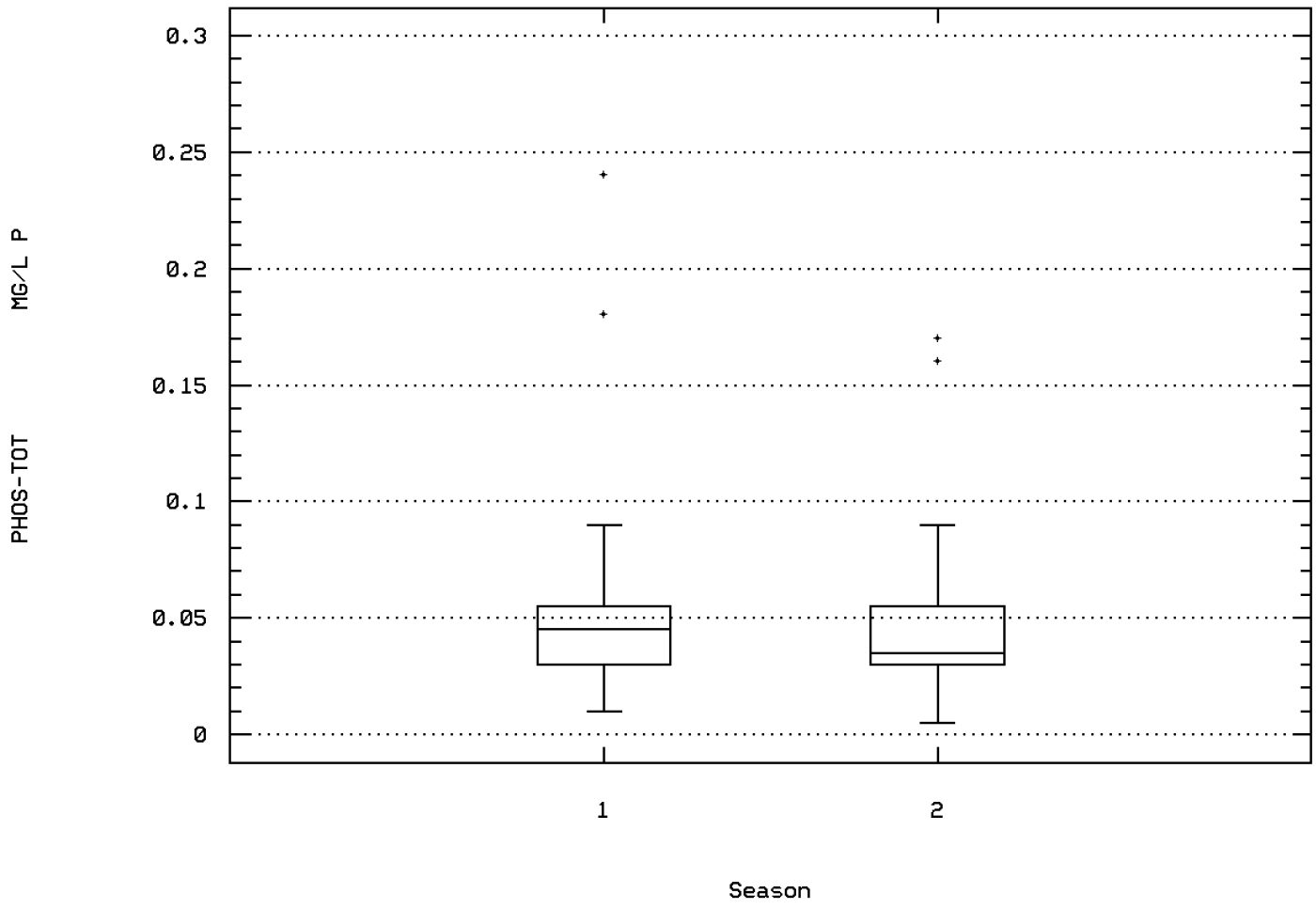
NITRATE NITROGEN, TOTAL (MG/L AS N)



LAGUNA MADRE ICWW/BIRD ISLAND

Station: PAIS0182 Parameter Code: 00665

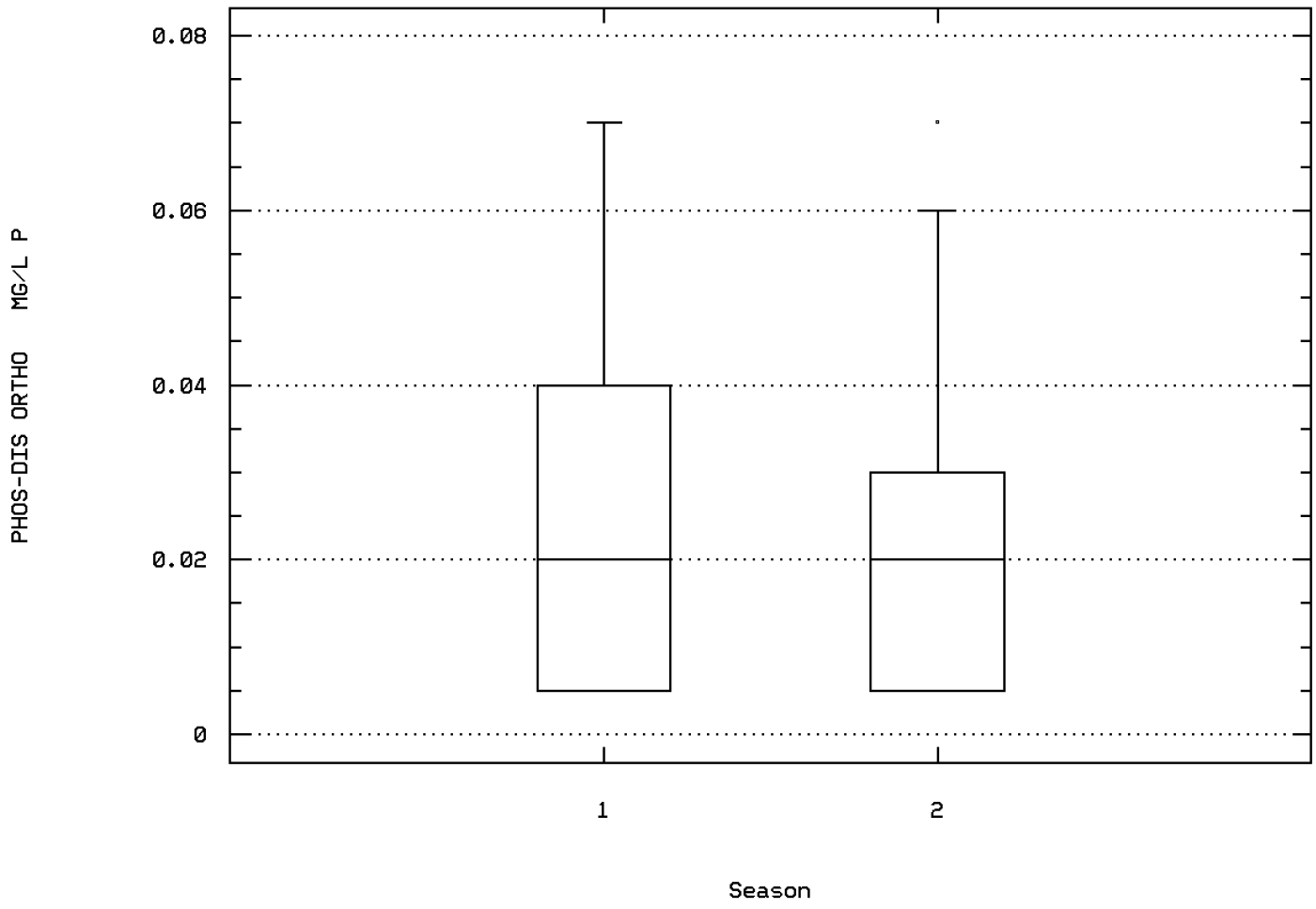
PHOSPHORUS, TOTAL (MG/L AS P)



LAGUNA MADRE ICWW/BIRD ISLAND

Station: PAIS0182 Parameter Code: 00671

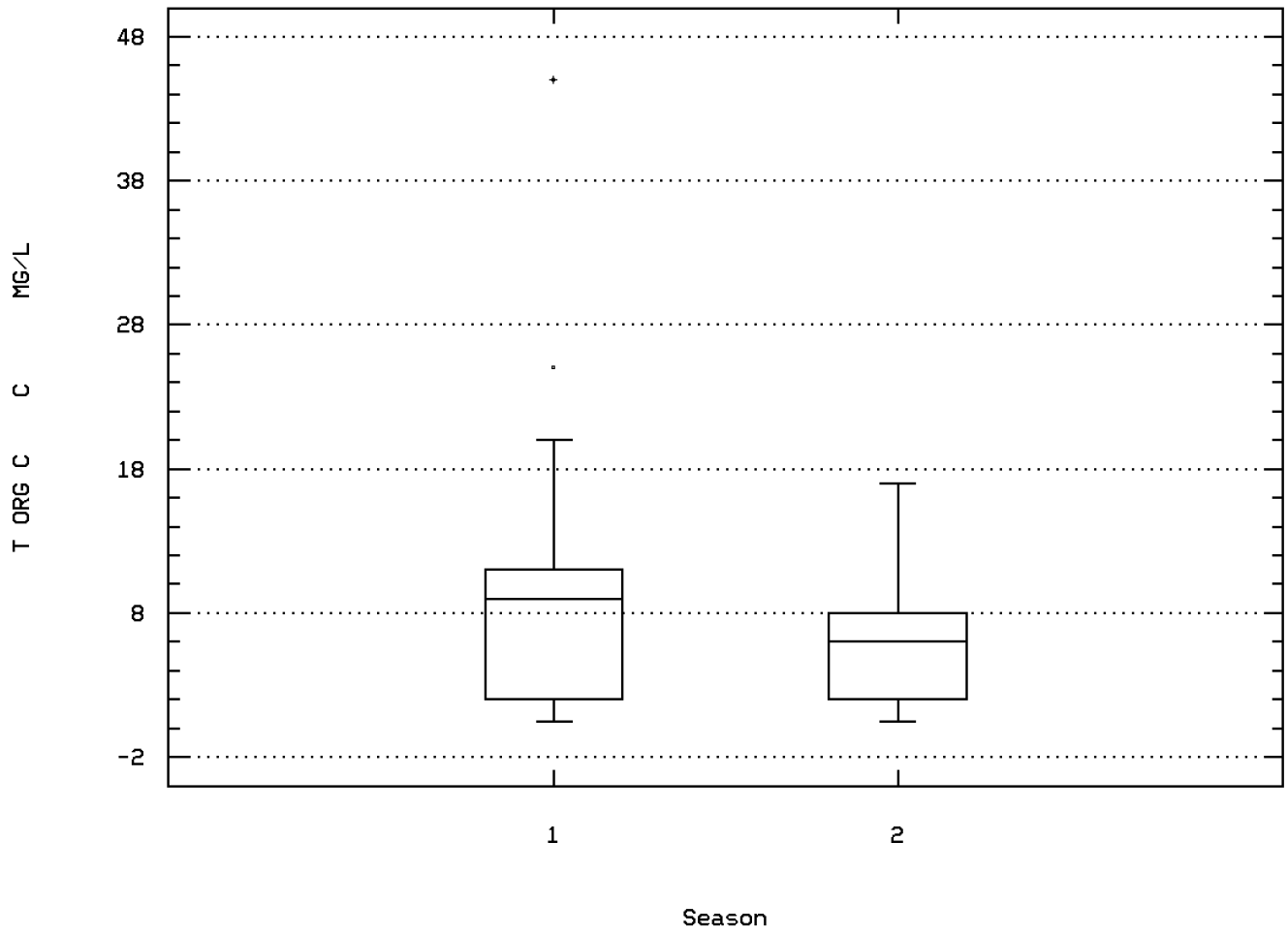
PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (M



LAGUNA MADRE ICWW/BIRD ISLAND

Station: PAIS0182 Parameter Code: 00680

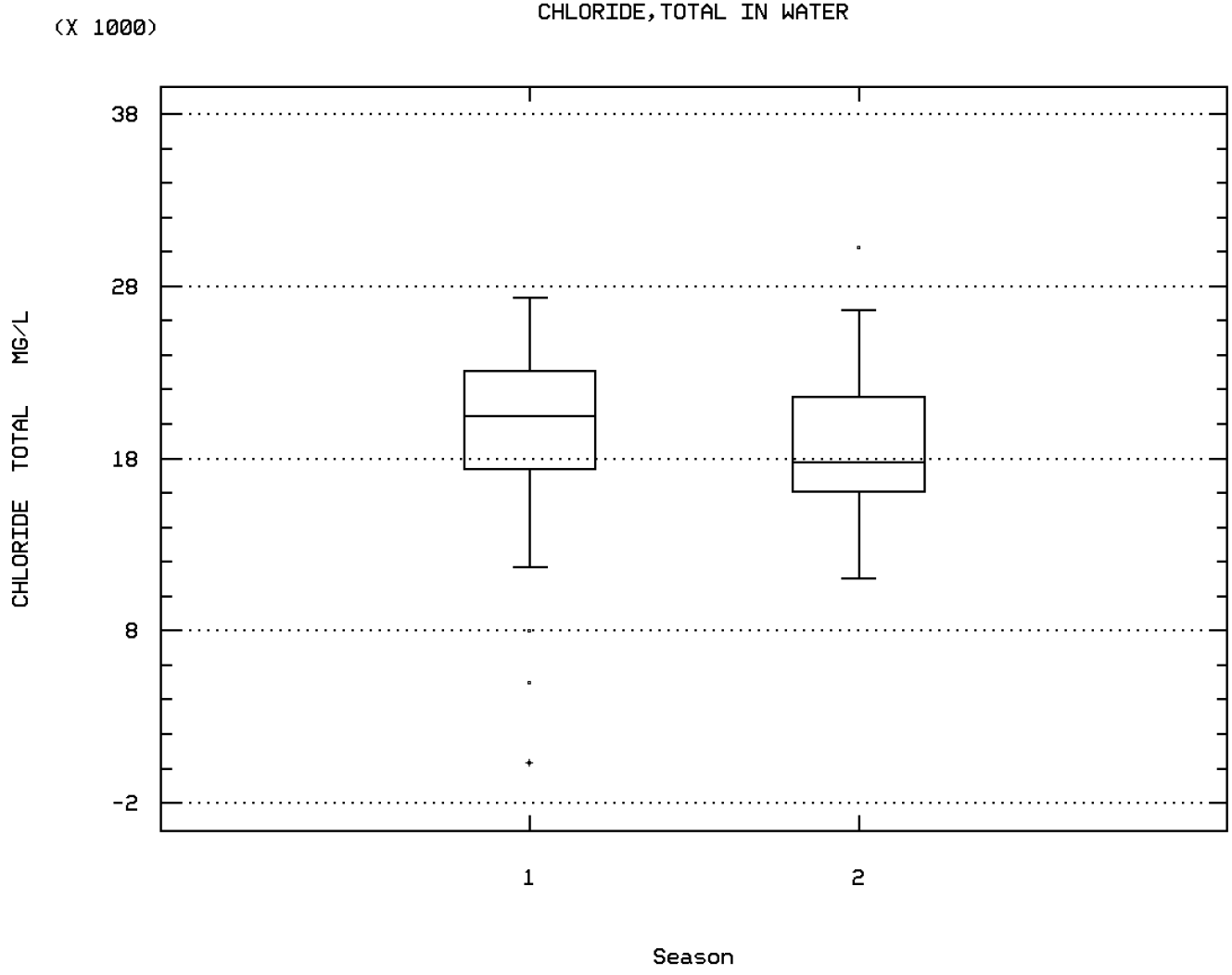
CARBON, TOTAL ORGANIC (MG/L AS C)



LAGUNA MADRE ICWW/BIRD ISLAND

Station: PAIS0182 Parameter Code: 00940

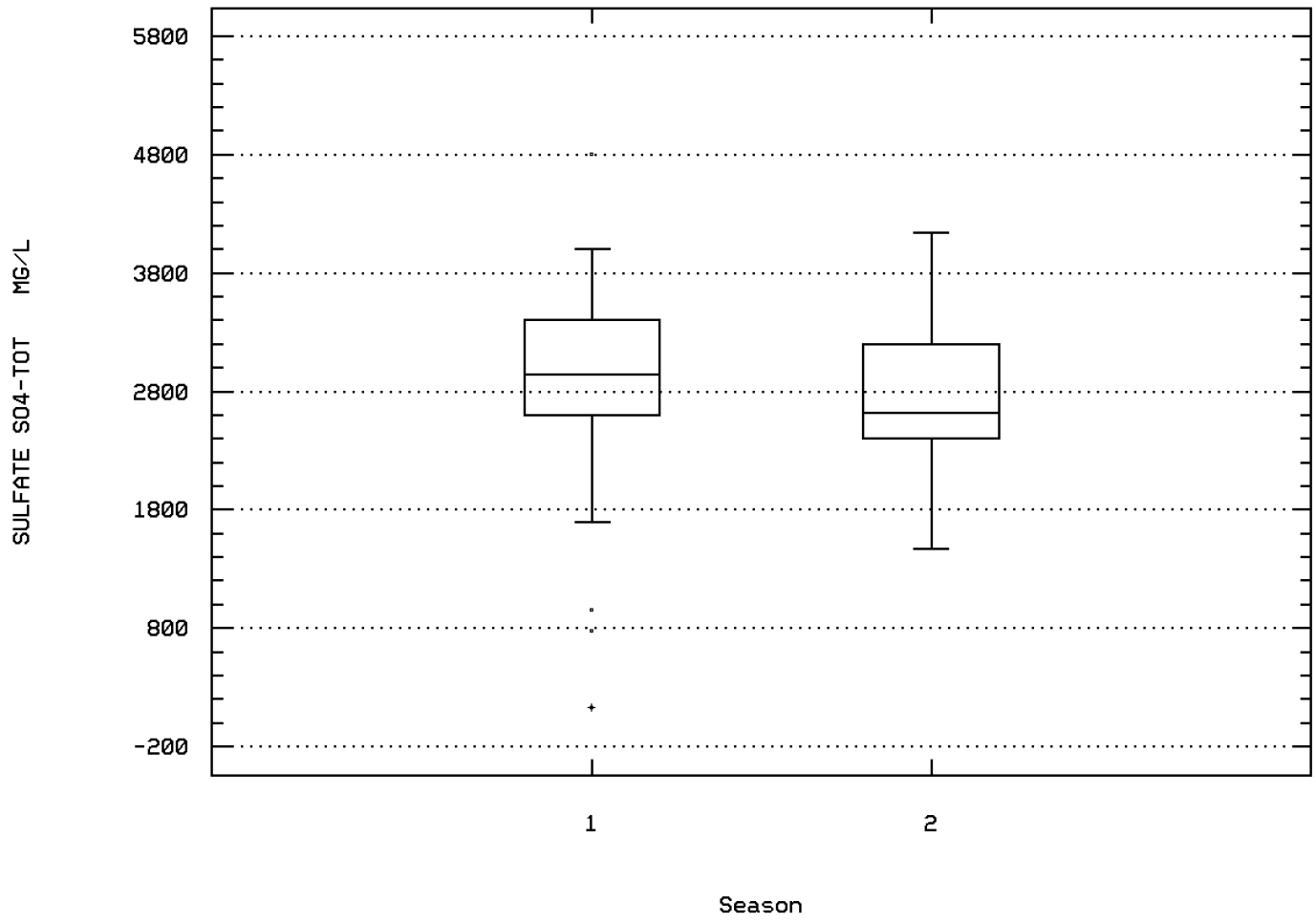
CHLORIDE,TOTAL IN WATER



LAGUNA MADRE ICWW/BIRD ISLAND

Station: PAIS0182 Parameter Code: 00945

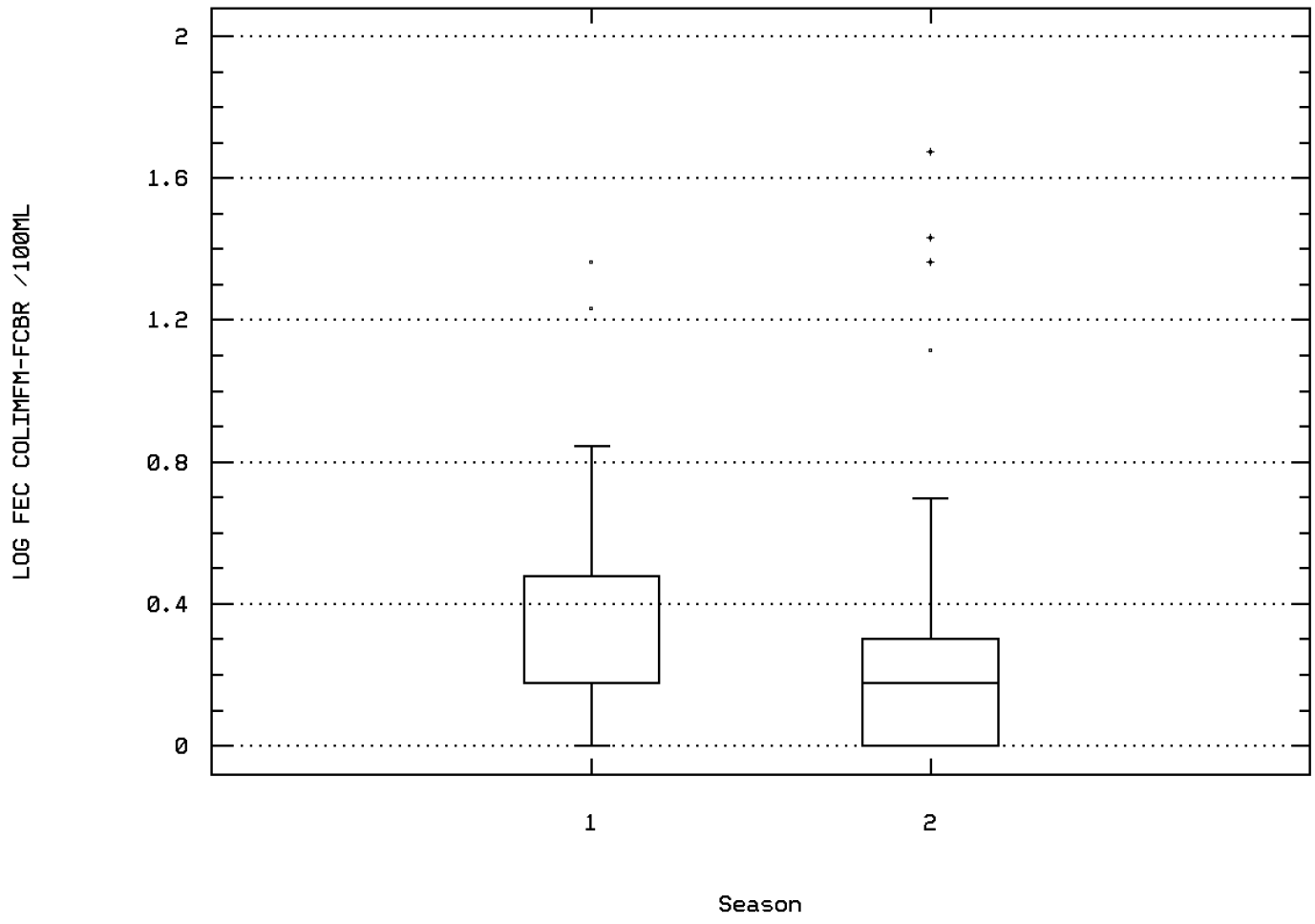
SULFATE, TOTAL (MG/L AS SO4)



LAGUNA MADRE ICWW/BIRD ISLAND

Station: PAIS0182 Parameter Code: 31616

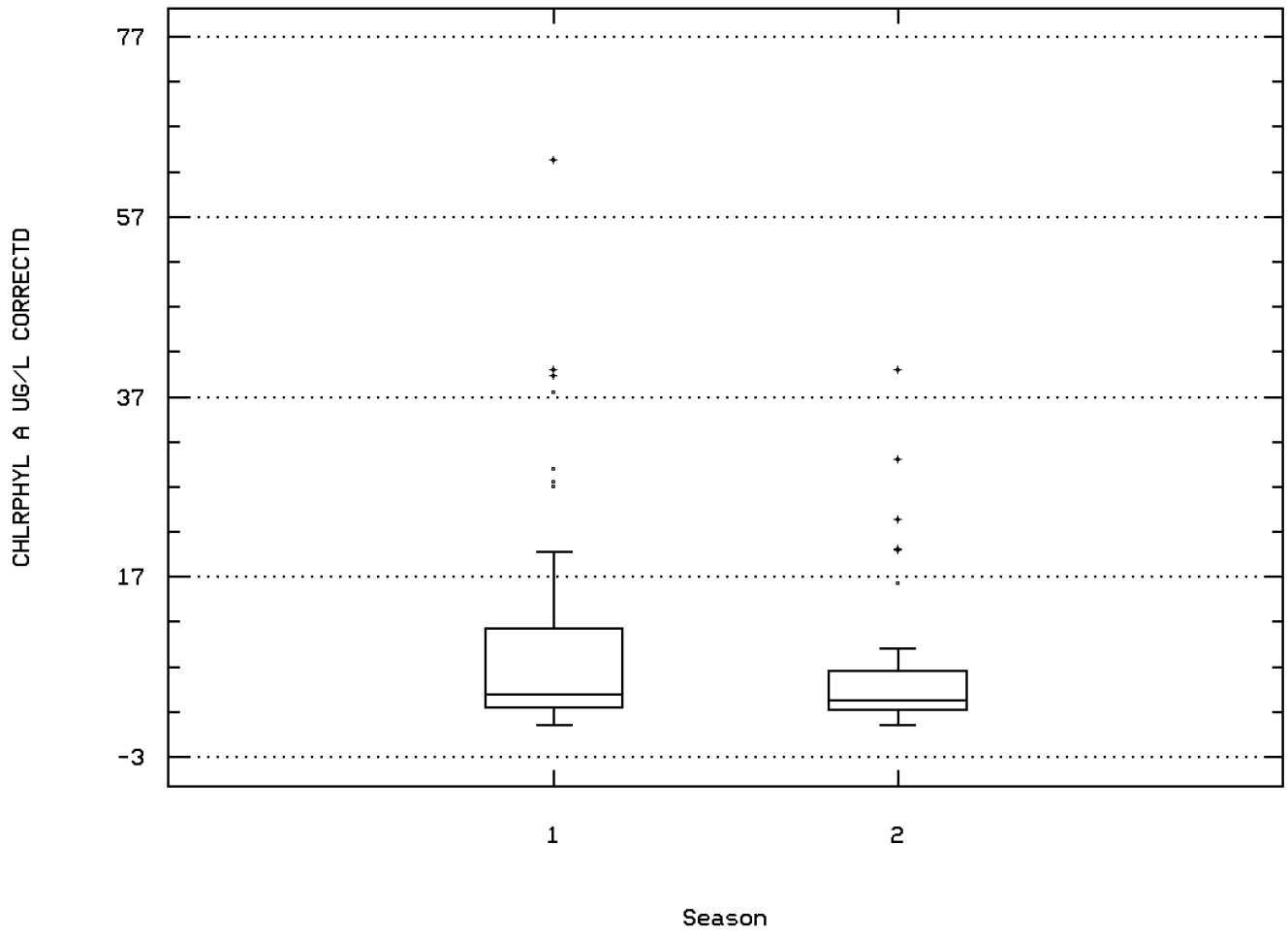
LOG FECAL COLIFORM,MEMBR FILTER,M-FC BR



LAGUNA MADRE ICWW/BIRD ISLAND

Station: PAIS0182 Parameter Code: 32211

CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC A



LAGUNA MADRE ICWW/BIRD ISLAND

Station Inventory for Station: PAIS0183

NPS Station ID: PAIS0183
LAT/LON: 27.481170/ -97.314170
Agency: 11NPSWRD
Date Created: 06/12/99
Location: STATION 57B IN THE LAGUNA MADRE
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SMEV_57B
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH BIRD ISLAND TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS INSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 57B IN THE LAGUNA MADRE. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT PADRE ISLAND NATIONAL SEASHORE; P.O. BOX 181300; CORPUS CHRISTI TX 78480-1300 (TEL. 361-949-8173). DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0183

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/02/75-09/02/75	1	29.3	29.3	29.3	29.3	0.	0.	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	09/02/75-09/02/75	1	36.9	36.9	36.9	36.9	0.	0.	**	**	**	**

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

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

Station Inventory for Station: PAIS0184

NPS Station ID: PAIS0184
LAT/LON: 27.482392/ -97.311309
Agency: 11NPSWRD
Date Created: 06/12/99
Location: STATION 57C IN THE LAGUNA MADRE
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SMEV_57C
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH BIRD ISLAND TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS INSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 57C IN THE LAGUNA MADRE. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT PADRE ISLAND NATIONAL SEASHORE; P.O. BOX 181300; CORPUS CHRISTI TX 78480-1300 (TEL. 361-949-8173). DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0184

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/02/75-09/02/75	1	28.8	28.8	28.8	28.8	0.	0.	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	09/02/75-09/02/75	1	37.2	37.2	37.2	37.2	0.	0.	**	**	**	**

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

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

Station Inventory for Station: PAIS0185

NPS Station ID: PAIS0185
LAT/LON: 27.483587/ -97.337642
Agency: 11NPSWRD
Date Created: 06/12/99
Location: STATION 58B IN THE LAGUNA MADRE
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SMEV_58B
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH BIRD ISLAND TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 58B IN THE LAGUNA MADRE. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0185

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/02/75-09/02/75	1	28.9	28.9	28.9	28.9	0.	0.	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	09/02/75-09/02/75	1	36.6	36.6	36.6	36.6	0.	0.	**	**	**	**

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

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

Station Inventory for Station: PAIS0186

NPS Station ID: PAIS0186
LAT/LON: 27.483616/ -97.315031
Agency: 11NPSWRD
Date Created: 06/12/99
Location: STATION 57A IN THE LAGUNA MADRE
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SMEV_57A
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH BIRD ISLAND TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS INSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 57A IN THE LAGUNA MADRE. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT PADRE ISLAND NATIONAL SEASHORE; P.O. BOX 181300; CORPUS CHRISTI TX 78480-1300 (TEL. 361-949-8173). DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0186

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/02/75-09/02/75	1	29.2	29.2	29.2	29.2	0.	0.	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	09/02/75-09/02/75	1	36.8	36.8	36.8	36.8	0.	0.	**	**	**	**

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

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

Station Inventory for Station: PAIS0187

NPS Station ID: PAIS0187 LAT/LON: 27.483616/ -97.318449 Agency: 11NPSWRD Date Created: 06/12/99
Location: BEACON 57 ON THE INTRACOASTAL WATERWAY FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): PAIS_SMEV_57
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110203 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110203 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH BIRD ISLAND TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT BEACON 57 ON THE INTRACOASTAL WATERWAY. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0187

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/13/75-01/14/76	5	25.5	23.04	28.8	14.8	42.183	6.495	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	06/13/75-01/14/76	4	34.05	35.575	41.8	32.4	18.109	4.255	**	**	**	**

** - Less than 9 observations ## - 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: PAIS0188

NPS Station ID: PAIS0188
LAT/LON: 27.483616/ -97.327393
Agency: 11NPSWRD
Date Created: 06/12/99
Location: STATION 58C IN THE LAGUNA MADRE
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SMEV_58C
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH BIRD ISLAND TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 58C IN THE LAGUNA MADRE. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0188

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/02/75-09/02/75	1	29.1	29.1	29.1	29.1	0.	0.	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	09/02/75-09/02/75	1	36.2	36.2	36.2	36.2	0.	0.	**	**	**	**

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

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

Station Inventory for Station: PAIS0189

NPS Station ID: PAIS0189
LAT/LON: 27.483670/ -97.317671
Agency: 11NPSWRD
Date Created: 04/17/99
Location: LIGHT 57 ON INTRACOASTAL WATERWAY
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_ICW_57
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH BIRD ISLAND TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT BEACON LIGHT 57 ON THE INTRACOASTAL WATERWAY. DATA ARE FROM A REPORT BY JIM BOWMAN OF THE TEXAS WATER QUALITY BOARD; "DOMESTIC WASTE IN LAGUNA MADRE FROM HOUSES ON SPOIL ISLAND;" JULY 1972. THE PURPOSE OF THIS REPORT WAS TO INVESTIGATE "THE POLLUTION OF THE LAGUNA MADRE FROM DOMESTIC WASTE COMING FROM A NUMBER OF "SQUATTER" CABINS LOCATED ON SPOIL ISLANDS IN THE LAGUNA MADRE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0189

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/07/72-07/07/72	1	2.	2.	2.	2.	0.	0.	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	07/07/72-07/07/72	1	0.301	0.301	0.301	0.301	0.	0.	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			2.								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/07/72-07/07/72	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/07/72-07/07/72	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			1.								

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

EPA Water Quality Criteria Analysis for Station: PAIS0189

						----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	1	0	0.00	1	0	0.00									
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: PAIS0190

NPS Station ID: PAIS0190
LAT/LON: 27.483670/ -97.346588
Agency: 11NPSWRD
Date Created: 06/12/99
Location: STATION 58A IN THE LAGUNA MADRE
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SMEV_58A
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH BIRD ISLAND TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 58A IN THE LAGUNA MADRE. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0190

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/02/75-09/02/75	1	29.8	29.8	29.8	29.8	0.	0.	**	**	**	**

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

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

Station Inventory for Station: PAIS0191

NPS Station ID: PAIS0191
LAT/LON: 27.485003/ -97.317503
Agency: 11NPSWRD
Date Created: 04/03/99
Location: BIRD ISLAND BASIN (HYDROLAB SITE)
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_USGS_BIH
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH BIRD ISLAND TEXAS-KLEBERG CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS INSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT BIRD ISLAND BASIN AT LAGUNA MADRE NEAR THE NATIONAL SEASHORE BOAT RAMP. DATA ARE FROM A HYDROLAB MONITORED BY THE U.S. GEOLOGICAL SURVEY. THE PURPOSE OF THIS MONITORING WAS TO COLLECT LONG TERM WATER QUALITY DATA FROM THE UPPER LAGUNA MADRE. FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT PADRE ISLAND NATIONAL SEASHORE; P.O. BOX 181300; CORPUS CHRISTI TX 78480-1300 (TEL. 361-949-8173). DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0191

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/16/92-09/23/98	44127	24.5	23.461	34.6	3.2	39.877	6.315	14.5	18.5	29.	30.8
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/16/92-09/23/98	44127	52800.	52922.899	75400.	20200.	68487572.954	8275.722	42600.	47700.	58000.	63900.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/16/92-08/25/98	37206	6.8	6.891	19.9	0.03	6.329	2.516	3.8	5.2	8.4	10.
00406	PH, FIELD, STANDARD UNITS SU	06/16/92-04/07/94	9277	8.35	8.365	9.55	7.62	0.121	0.348	7.92	8.08	8.57	8.83
00406	CONVERTED PH, FIELD, STANDARD UNITS	06/16/92-04/07/94	9277	8.35	8.245	9.55	7.62	0.136	0.368	7.92	8.08	8.57	8.83
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/16/92-04/07/94	9277	0.004	0.006	0.024	0.	0.	0.004	0.001	0.003	0.008	0.012
00480	SALINITY - PARTS PER THOUSAND	06/16/92-09/23/98	44119	34.9	35.013	51.9	12.3	37.336	6.11	27.4	31.1	38.8	43.2

** - 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: PAIS0191

						----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------n/a----------		
Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	37206	4428	0.12	19954	4167	0.21	17252	261	0.02						
00406 PH, FIELD	Marine Chronic	8.5	9277	2981	0.32	5310	2814	0.53	3967	167	0.04						
	Other-Lo Lim.	6.5	9277	0	0.00	5310	0	0.00	3967	0	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 1992 - Station PAIS0191

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/16/92-09/23/98	4113	27.8	25.803	33.6	9.9	28.439	5.333	17.4	23.3	29.7	31.2
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/16/92-09/23/98	4113	51500.	48309.677	58900.	30400.	59862391.749	7737.079	33800.	47900.	53200.	55300.
00299p	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/16/92-08/25/98	4113	6.5	6.413	12.9	0.3	5.51	2.347	3.2	4.6	8.2	9.4
00480p	SALINITY - PARTS PER THOUSAND	06/16/92-09/23/98	4113	33.9	31.598	39.4	18.8	31.287	5.594	21.1	31.2	35.2	36.7

** - 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 1993 - Station PAIS0191

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/16/92-09/23/98	8443	23.3	22.712	33.9	6.7	39.632	6.295	13.8	17.7	28.4	30.3
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/16/92-09/23/98	8443	46100.	46670.733	59900.	31600.	32070911.888	5663.119	40100.	42900.	52100.	54000.
00299p	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/16/92-08/25/98	8111	6.9	6.732	12.6	0.03	5.833	2.415	3.3	5.2	8.5	9.7
00480p	SALINITY - PARTS PER THOUSAND	06/16/92-09/23/98	8443	29.9	30.394	40.2	19.7	16.961	4.118	25.6	27.6	34.3	35.7

** - 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 1994 - Station PAIS0191

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/16/92-09/23/98	6759	23.5	23.012	33.7	6.9	34.927	5.91	14.9	18.2	28.3	30.1
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/16/92-09/23/98	6759	50900.	53578.458	67500.	42800.	35336141.393	5944.421	48300.	48800.	58300.	62800.
00299p	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/16/92-08/25/98	5890	7.7	7.829	19.9	1.1	5.556	2.357	5.	6.2	9.2	10.6
00480p	SALINITY - PARTS PER THOUSAND	06/16/92-09/23/98	6759	33.5	35.465	45.9	27.5	19.532	4.42	31.6	31.9	39.	42.4

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

Annual Analysis for 1995 - Station PAIS0191

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/16/92-09/23/98	6146	25.75	24.792	34.1	9.3	30.882	5.557	16.3	20.4	29.6	31.
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/16/92-09/23/98	6146	55000.	54910.788	64000.	20200.	17506430.397	4184.069	49200.	52600.	57800.	60200.
00299p	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/16/92-08/25/98	6146	6.7	6.724	12.7	1.1	3.909	1.977	4.1	5.4	8.	9.3
00480p	SALINITY - PARTS PER THOUSAND	06/16/92-09/23/98	6138	36.5	36.46	43.3	12.3	9.042	3.007	32.3	34.7	38.6	40.4

** - 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 1996 - Station PAIS0191

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/16/92-09/23/98	6818	24.	23.267	34.	4.5	42.265	6.501	13.9	18.8	28.9	30.7
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/16/92-09/23/98	6818	63500.	62919.83	75400.	50700.	39650168.55	6296.838	53600.	56800.	68500.	70400.
00299p	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/16/92-08/25/98	6327	6.1	6.161	11.8	0.8	3.665	1.915	3.8	4.7	7.4	8.8
00480p	SALINITY - PARTS PER THOUSAND	06/16/92-09/23/98	6818	42.9	42.454	51.9	33.3	22.465	4.74	35.5	37.8	46.7	48.1

** - 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 1997 - Station PAIS0191

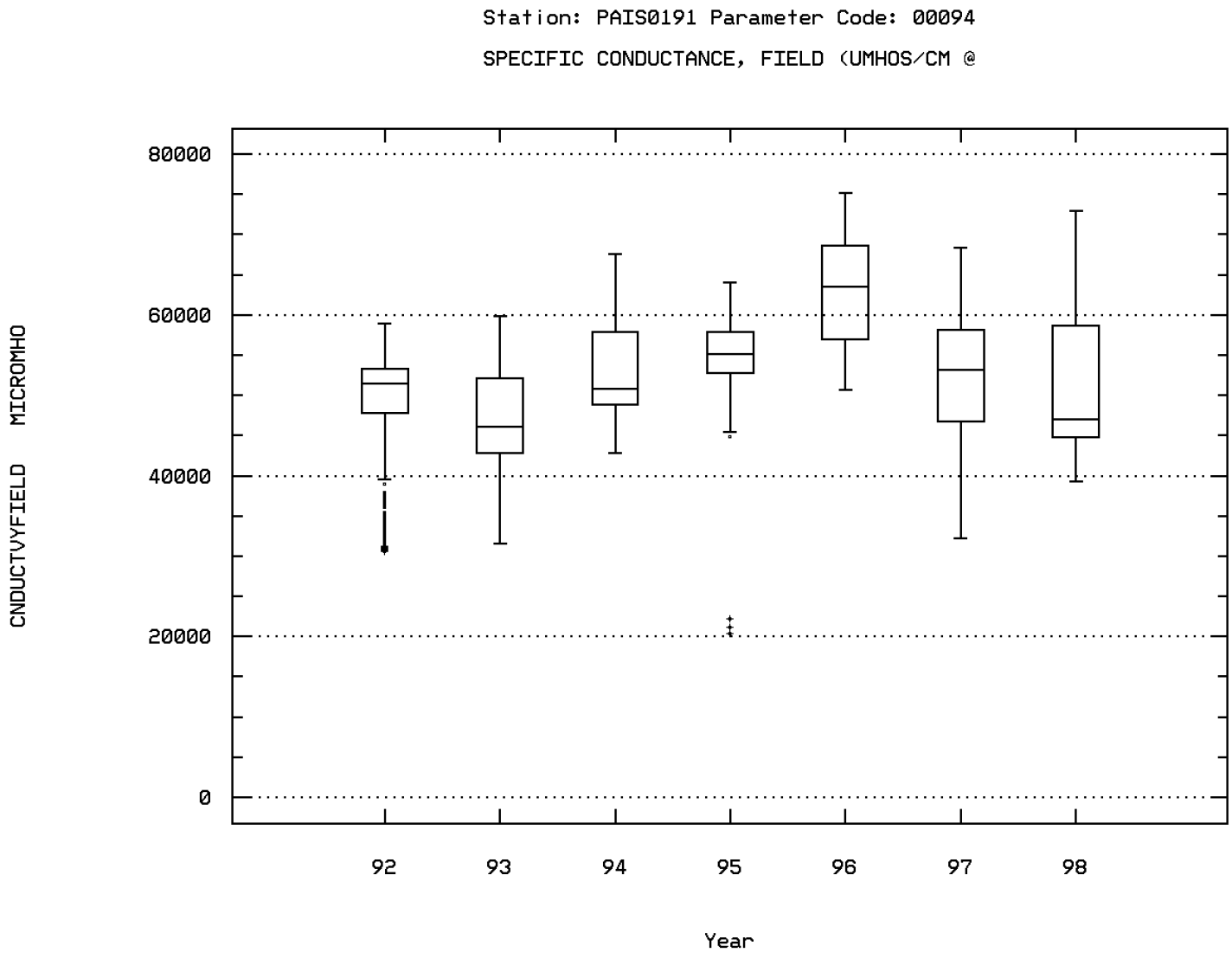
Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/16/92-09/23/98	7543	22.3	22.543	34.4	3.2	52.725	7.261	12.2	17.3	29.3	31.2
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/16/92-09/23/98	7543	52848.	52130.947	68800.	32200.	57212401.295	7563.888	40500.	47000.	57600.	61600.
00299p	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/16/92-08/25/98	4886	6.4	6.895	19.9	0.4	10.835	3.292	3.4	4.6	8.225	11.4
00480p	SALINITY - PARTS PER THOUSAND	06/16/92-09/23/98	7543	34.9	34.418	46.9	20.	30.943	5.563	25.9	30.6	38.5	41.5

** - 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 1998 - Station PAIS0191

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/16/92-09/23/98	4305	22.9	23.416	34.6	10.6	34.938	5.911	16.	18.1	29.2	30.8
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/16/92-09/23/98	4305	46950.	51280.009	73500.	38300.	73077773.188	8548.554	42600.	44700.	57800.	63500.
00299p	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/16/92-08/25/98	1733	7.8	8.838	14.1	2.2	9.358	3.059	5.5	6.7	12.9	13.3
00480p	SALINITY - PARTS PER THOUSAND	06/16/92-09/23/98	4305	30.6	33.819	50.4	24.4	40.122	6.334	27.4	28.9	38.6	42.9

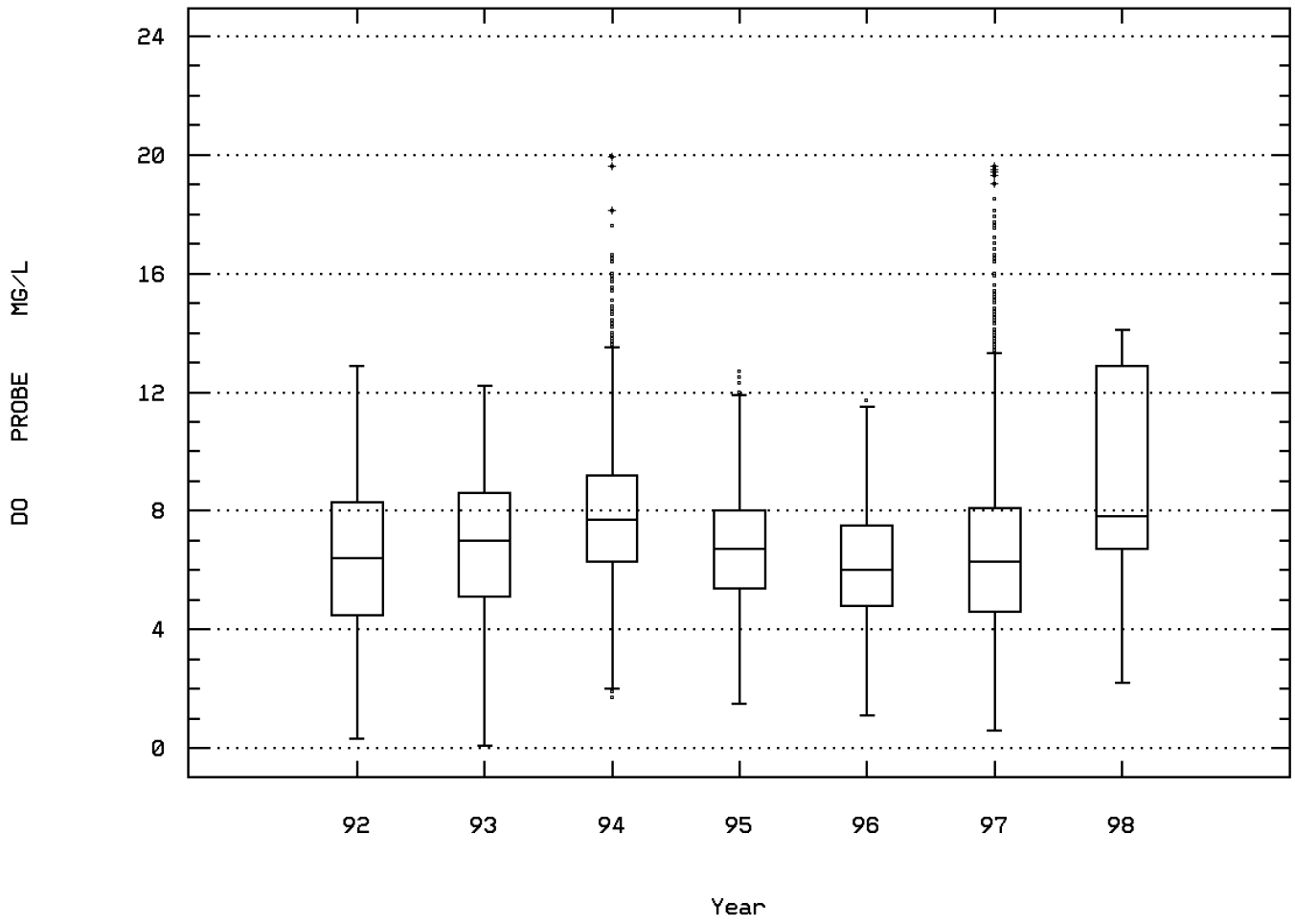
** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot



BIRD ISLAND BASIN (HYDROLAB SITE)

Station: PAIS0191 Parameter Code: 00299

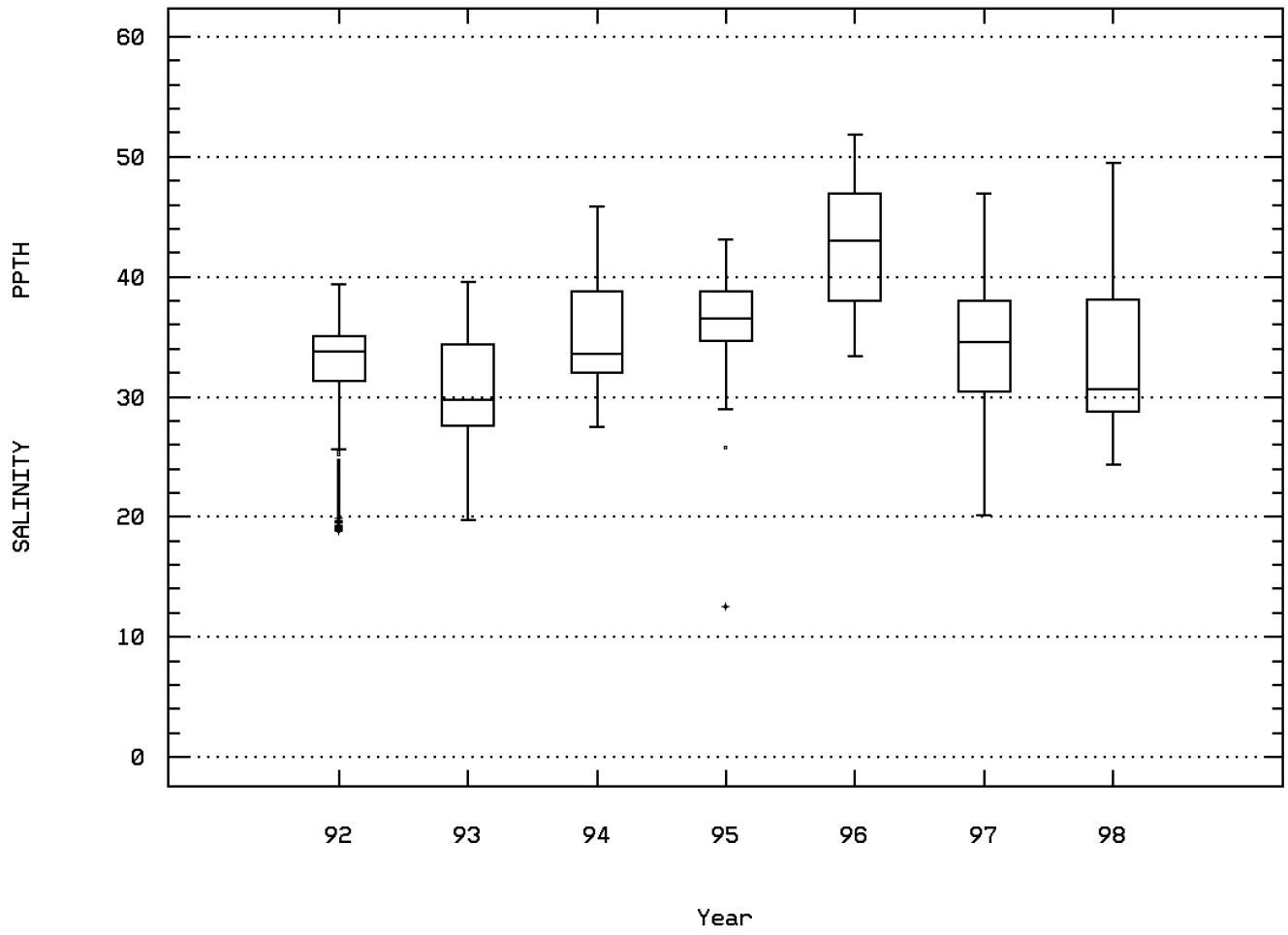
OXYGEN, DISSOLVED, ANALYSIS BY PROBE



BIRD ISLAND BASIN (HYDROLAB SITE)

Station: PAIS0191 Parameter Code: 00480

SALINITY - PARTS PER THOUSAND



BIRD ISLAND BASIN (HYDROLAB SITE)

Seasonal Analysis for Season #1: 5/01 to 10/31 - Station PAIS0191

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/16/92-09/23/98	22797	28.9	28.491	34.6	11.2	7.742	2.783	24.7	27.1	30.3	31.7
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/16/92-09/23/98	22797	55100.	54646.476	75400.	30400.	79130739.452	8895.546	42500.	50400.	61000.	65420.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/16/92-08/25/98	19954	6.	6.364	19.9	0.03	8.401	2.898	3.1	4.3	7.9	10.
00480	SALINITY - PARTS PER THOUSAND	06/16/92-09/23/98	22797	36.6	36.295	51.9	18.8	43.116	6.566	27.3	33.1	41.	44.3

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

Seasonal Analysis for Season #2: 11/01 to 4/30 - Station PAIS0191

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/16/92-09/23/98	21330	18.4	18.086	28.8	3.2	18.287	4.276	12.4	15.2	21.2	23.5
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/16/92-09/23/98	21330	49900.	51080.781	73200.	20200.	50546842.492	7109.63	42700.	46100.	54400.	61500.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/16/92-08/25/98	17252	7.4	7.501	13.8	1.7	3.24	1.8	5.2	6.2	8.7	9.9
00480	SALINITY - PARTS PER THOUSAND	06/16/92-09/23/98	21322	32.7	33.642	50.2	12.3	27.519	5.246	27.5	30.	36.1	41.4

** - 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

Station Inventory for Station: PAIS0192

NPS Station ID: PAIS0192
LAT/LON: 27.488866/ -97.310338
Agency: 11NPSWRD
Date Created: 06/12/99
Location: STATION 55A IN THE LAGUNA MADRE
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SMEV_55A
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH BIRD ISLAND TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS INSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 55A IN THE LAGUNA MADRE. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT PADRE ISLAND NATIONAL SEASHORE; P.O. BOX 181300; CORPUS CHRISTI TX 78480-1300 (TEL. 361-949-8173). DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0192

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/02/75-09/02/75	1	29.3	29.3	29.3	29.3	0.	0.	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	09/02/75-09/02/75	1	37.1	37.1	37.1	37.1	0.	0.	**	**	**	**

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

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

Station Inventory for Station: PAIS0193

NPS Station ID: PAIS0193
LAT/LON: 27.489948/ -97.300031
Agency: 11NPSWRD
Date Created: 06/12/99
Location: STATION 54C IN THE LAGUNA MADRE
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SMEV_54C
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH BIRD ISLAND TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS INSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 54C IN THE LAGUNA MADRE. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT PADRE ISLAND NATIONAL SEASHORE; P.O. BOX 181300; CORPUS CHRISTI TX 78480-1300 (TEL. 361-949-8173). DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0193

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/02/75-09/02/75	1	28.3	28.3	28.3	28.3	0.	0.	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	09/02/75-09/02/75	1	35.7	35.7	35.7	35.7	0.	0.	**	**	**	**

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

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

Station Inventory for Station: PAIS0194

NPS Station ID: PAIS0194
LAT/LON: 27.490587/ -97.301781
Agency: 11NPSWRD
Date Created: 06/12/99
Location: STATION 54B IN THE LAGUNA MADRE
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SMEV_54B
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH BIRD ISLAND TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS INSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 54B IN THE LAGUNA MADRE. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT PADRE ISLAND NATIONAL SEASHORE; P.O. BOX 181300; CORPUS CHRISTI TX 78480-1300 (TEL. 361-949-8173). DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0194

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/02/75-09/02/75	1	28.6	28.6	28.6	28.6	0.	0.	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	09/02/75-09/02/75	1	35.7	35.7	35.7	35.7	0.	0.	**	**	**	**

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

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

Station Inventory for Station: PAIS0195

NPS Station ID: PAIS0195
LAT/LON: 27.491337/ -97.303976
Agency: 11NPSWRD
Date Created: 06/12/99
Location: STATION 54A IN THE LAGUNA MADRE
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SMEV_54A
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH BIRD ISLAND TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS INSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 54A IN THE LAGUNA MADRE. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT PADRE ISLAND NATIONAL SEASHORE; P.O. BOX 181300; CORPUS CHRISTI TX 78480-1300 (TEL. 361-949-8173). DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0195

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/02/75-09/02/75	1	29.2	29.2	29.2	29.2	0.	0.	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	09/02/75-09/02/75	1	36.8	36.8	36.8	36.8	0.	0.	**	**	**	**

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

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

Station Inventory for Station: PAIS0196

NPS Station ID: PAIS0196 LAT/LON: 27.494781/ -97.312837 Agency: 11NPSWRD Date Created: 06/12/99
Location: MARKER 54 ON THE INTRACOASTAL WATERWAY FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): PAIS_SMEV_54
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110203 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110203 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH BIRD ISLAND TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT MARKER 54 ON THE INTRACOASTAL WATERWAY. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0196

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/02/75-09/02/75	1	29.2	29.2	29.2	29.2	0.	0.	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	09/02/75-09/02/75	1	35.2	35.2	35.2	35.2	0.	0.	**	**	**	**

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

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

Station Inventory for Station: PAIS0197

NPS Station ID: PAIS0197
LAT/LON: 27.495698/ -97.295809
Agency: 11NPSWRD
Date Created: 04/17/99
Location: STATION 28 UPPER LAGUNA MADRE
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_BBB_28
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH BIRD ISLAND TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS INSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 28 IN UPPER LAGUNA MADRE. DATA ARE FROM A REPORT BY B. B. BAKER OF THE TEXAS GAME AND FISH COMMISSION; "COMPILATION OF SALINITY DATA FROM THE LAGUNA MADRE;" 1949. THE ORIGINAL REPORT WAS NOT LOCATED; BUT DATA WERE REFERENCED FROM A REPORT BY ERNEST G. SIMMONS; "AN ECOLOGICAL SURVEY OF THE UPPER LAGUNA MADRE." SALINITY DATA IS THE AVERAGE FOR THE MONTH. FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT PADRE ISLAND NATIONAL SEASHORE; P.O. BOX 181300; CORPUS CHRISTI TX 78480-1300 (TEL. 361-949-8173). DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0197

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: PAIS0198

NPS Station ID: PAIS0198
LAT/LON: 27.495698/ -97.295809
Agency: 11NPSWRD
Date Created: 04/17/99
Location: STATION 28 UPPER LAGUNA MADRE
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SIMM_28
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH BIRD ISLAND TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS INSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 28 IN THE UPPER LAGUNA MADRE. DATA ARE FROM A REPORT BY ERNEST G. SIMMONS OF THE TEXAS GAME AND FISH COMMISSION; "AN ECOLOGICAL SURVEY OF THE UPPER LAGUNA MADRE OF TEXAS." THE PURPOSE OF THIS REPORT WAS TO EXAMINE "PLANT LIFE; INVERTEBRATES AND VERTEBRATES OF THE AREA AND THE RELATIONSHIP OF THESE TO BASIC PHYSICAL AND BIOLOGICAL FACTORS IN THE ENVIRONMENT." THE DAY WAS ASSUMED TO BE THE 15TH OF EACH MONTH. FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT PADRE ISLAND NATIONAL SEASHORE; P.O. BOX 181300; CORPUS CHRISTI TX 78480-1300 (TEL. 361-949-8173). DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0198

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/15/71-12/15/71	11	25.5	24.682	31.	18.	21.964	4.687	18.	20.5	29.5	30.8
00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/15/71-12/15/71	11	42.	43.636	80.	25.	265.255	16.287	26.	30.	57.	75.6
00300	OXYGEN, DISSOLVED MG/L	01/15/71-12/15/71	11	7.	7.182	9.	6.	0.964	0.982	6.	6.	8.	8.8
00400	PH (STANDARD UNITS)	01/15/71-12/15/71	11	8.2	8.227	8.4	7.9	0.024	0.156	7.94	8.1	8.4	8.4
00400	CONVERTED PH (STANDARD UNITS)	01/15/71-12/15/71	11	8.2	8.2	8.4	7.9	0.025	0.158	7.94	8.1	8.4	8.4
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/15/71-12/15/71	11	0.006	0.006	0.013	0.004	0.	0.003	0.004	0.004	0.008	0.012
00480	SALINITY - PARTS PER THOUSAND	01/15/71-12/15/71	11	39.9	36.8	52.1	18.1	163.646	12.792	18.26	22.8	47.7	51.56

** - 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 time series plot

EPA Water Quality Criteria Analysis for Station: PAIS0198

						----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	11	3	0.27	5	2	0.40	6	1	0.17						
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	11	0	0.00	5	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

EPA Water Quality Criteria Analysis for Station: PAIS0198

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	5/01-10/31 Obs	5/01-10/31 Exceed	5/01-10/31 Prop.	11/01-4/30 Obs	11/01-4/30 Exceed	11/01-4/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400 PH	Marine Chronic	8.5	11	0	0.00	5	0	0.00	6	0	0.00						
	Other-Lo Lim.	6.5	11	0	0.00	5	0	0.00	6	0	0.00						

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

Station Inventory for Station: PAIS0199

NPS Station ID: PAIS0199
LAT/LON: 27.495698/ -97.295809
Agency: 11NPSWRD
Date Created: 04/17/99
Location: STATION 28 UPPER LAGUNA MADRE
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SIM2_28
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SOUTH BIRD ISLAND TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS INSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 28 IN THE UPPER LAGUNA MADRE. DATA ARE FROM A REPORT BY ERNEST G. SIMMONS OF THE TEXAS GAME AND FISH COMMISSION; "AN ECOLOGICAL SURVEY OF THE UPPER LAGUNA MADRE OF TEXAS." THE PURPOSE OF THIS REPORT WAS TO EXAMINE "PLANT LIFE; INVERTEBRATES AND VERTEBRATES OF THE AREA AND THE RELATIONSHIP OF THESE TO BASIC PHYSICAL AND BIOLOGICAL FACTORS IN THE ENVIRONMENT." SALINITY DATA IS THE AVERAGE FOR THE MONTH. FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT PADRE ISLAND NATIONAL SEASHORE; P.O. BOX 181300; CORPUS CHRISTI TX 78480-1300 (TEL. 361-949-8173). DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0199

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: PAIS0200

NPS Station ID: PAIS0200 | LAT/LON: 27.502310/ -97.296143 | Agency: 11NPSWRD | Date Created: 06/12/99
Location: STATION 51C IN THE LAGUNA MADRE | FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY | STORET Station ID(s): PAIS_SMEV_51C
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 12110203 | Depth of Water: 0 | Aquifer:
Major Basin: WESTERN GULF | Elevation: 0 | Water Body Id:
Minor Basin: NUECES RIVER | ECO Region:
RF1 Index: 12110203 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: 12110208252000.00 | RF3 Mile Point: 0.00 | Distance from RF3: 0.29 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PITA ISLAND TEXAS 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS INSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 51C IN THE LAGUNA MADRE. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT PADRE ISLAND NATIONAL SEASHORE; P.O. BOX 181300; CORPUS CHRISTI TX 78480-1300 (TEL. 361-949-8173). DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0200

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/02/75-09/02/75	1	28.1	28.1	28.1	28.1	0.	0.	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	09/02/75-09/02/75	1	35.	35.	35.	35.	0.	0.	**	**	**	**

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

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

Station Inventory for Station: PAIS0201

NPS Station ID: PAIS0201 | LAT/LON: 27.503670/ -97.299199 | Agency: 11NPSWRD | Date Created: 06/12/99
Location: STATION 51B IN THE LAGUNA MADRE | FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY | STORET Station ID(s): PAIS_SMEV_51B
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 12110203 | Depth of Water: 0 | Aquifer:
Major Basin: WESTERN GULF | Elevation: 0 | Water Body Id:
Minor Basin: NUECES RIVER | ECO Region:
RF1 Index: 12110203 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: 12110208252000.00 | RF3 Mile Point: 0.00 | Distance from RF3: 0.29 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PITA ISLAND TEXAS 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS INSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 51B IN THE LAGUNA MADRE. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT PADRE ISLAND NATIONAL SEASHORE; P.O. BOX 181300; CORPUS CHRISTI TX 78480-1300 (TEL. 361-949-8173). DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0201

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/02/75-09/02/75	1	28.1	28.1	28.1	28.1	0.	0.	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	09/02/75-09/02/75	1	35.	35.	35.	35.	0.	0.	**	**	**	**

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

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

Station Inventory for Station: PAIS0202

NPS Station ID: PAIS0202
LAT/LON: 27.504448/ -97.303892
Agency: 112WRD
Date Created: 11/07/81
Location: 2114711NUECES ES LINE 147 SITE 11
FIPS State/County: 48355 TEXAS/NUECES
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): 273016097181400
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 12110203001
RF1 Mile Point: 13.760
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 12110205000310.87
RF3 Mile Point: 12.35
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: PAIS0202

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/03/67-10/03/67	6	6.	5.867	11.	0.2	15.707	3.963	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/67-10/03/67	6	25.	25.167	25.5	25.	0.067	0.258	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/03/67-10/03/67	6	11000.	11316.667	14000.	9900.	2321666.667	1523.702	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	10/03/67-10/03/67	6	10.9	10.2	11.1	8.6	1.544	1.243	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	10/03/67-10/03/67	6	134.9	125.567	135.9	105.9	232.267	15.24	**	**	**	**

** - 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 time series plot

EPA Water Quality Criteria Analysis for Station: PAIS0202

						----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------n/a----------		
Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300 OXYGEN, DISSOLVED	Other-Lo Lim.	4.	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: PAIS0203

NPS Station ID: PAIS0203 | LAT/LON: 27.504948/ -97.302476 | Agency: 11NPSWRD | Date Created: 06/12/99
Location: STATION 51A IN THE LAGUNA MADRE | FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY | STORET Station ID(s): PAIS_SMEV_51A
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 12110203 | Depth of Water: 0 | Aquifer:
Major Basin: WESTERN GULF | Elevation: 0 | Water Body Id:
Minor Basin: NUECES RIVER | ECO Region:
RF1 Index: 12110203 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: 12110208252000.00 | RF3 Mile Point: 0.00 | Distance from RF3: 0.29 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PITA ISLAND TEXAS 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS INSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 51A IN THE LAGUNA MADRE. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT PADRE ISLAND NATIONAL SEASHORE; P.O. BOX 181300; CORPUS CHRISTI TX 78480-1300 (TEL. 361-949-8173). DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0203

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/02/75-09/02/75	1	27.8	27.8	27.8	27.8	0.	0.	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	09/02/75-09/02/75	1	34.5	34.5	34.5	34.5	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: PAIS0204

NPS Station ID: PAIS0204 | LAT/LON: 27.506503/ -97.306087 | Agency: 11NPSWRD | Date Created: 04/17/99
Location: LIGHT 51 ON INTRACOASTAL WATERWAY | FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY | STORET Station ID(s): PAIS_ICW_51
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 12110203 | Depth of Water: 0 | Aquifer:
Major Basin: WESTERN GULF | Elevation: 0 | Water Body Id:
Minor Basin: NUECES RIVER | ECO Region:
RF1 Index: 12110203 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: 12110208252000.00 | RF3 Mile Point: 0.00 | Distance from RF3: 0.29 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PITA ISLAND TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT BEACON LIGHT 51 ON THE INTRACOASTAL WATERWAY. DATA ARE FROM A REPORT BY JIM BOWMAN OF THE TEXAS WATER QUALITY BOARD; "DOMESTIC WASTE IN LAGUNA MADRE FROM HOUSES ON SPOIL ISLAND;" JULY 1972. THE PURPOSE OF THIS REPORT WAS TO INVESTIGATE "THE POLLUTION OF THE LAGUNA MADRE FROM DOMESTIC WASTE COMING FROM A NUMBER OF "SQUATTER" CABINS LOCATED ON SPOIL ISLANDS IN THE LAGUNA MADRE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0204

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/07/72-07/07/72	1	8.	8.	8.	8.	0.	0.	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	07/07/72-07/07/72	1	0.903	0.903	0.903	0.903	0.	0.	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			8.								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/07/72-07/07/72	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/07/72-07/07/72	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			1.								

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

EPA Water Quality Criteria Analysis for Station: PAIS0204

						5/01-10/31			11/01-4/30			n/a			n/a		
Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	1	0	0.00	1	0	0.00									
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: PAIS0205

NPS Station ID: PAIS0205 LAT/LON: 27.506503/ -97.306477 Agency: 11NPSWRD Date Created: 06/12/99
Location: BEACON 51 ON THE INTRACOASTAL WATERWAY FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): PAIS_SMEV_51
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110203 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110203 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PITA ISLAND TEXAS 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT BEACON 51 ON THE INTRACOASTAL WATERWAY. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0205

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/02/75-01/14/76	3	17.5	20.167	27.9	15.1	46.293	6.804	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	09/02/75-01/14/76	3	33.4	33.767	35.6	32.3	2.823	1.68	**	**	**	**

** - 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

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

Station Inventory for Station: PAIS0206

NPS Station ID: PAIS0206 | LAT/LON: 27.508309/ -97.328699 | Agency: 11NPSWRD | Date Created: 04/17/99
Location: STATION 27 UPPER LAGUNA MADRE | FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY | STORET Station ID(s): PAIS_SIMM_27
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 12110203 | Depth of Water: 0 | Aquifer:
Major Basin: WESTERN GULF | Elevation: 0 | Water Body Id:
Minor Basin: NUECES RIVER | ECO Region:
RF1 Index: 12110203 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: 12110208252000.00 | RF3 Mile Point: 0.00 | Distance from RF3: 0.29 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PITA ISLAND TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 27 IN THE UPPER LAGUNA MADRE. DATA ARE FROM A REPORT BY ERNEST G. SIMMONS OF THE TEXAS GAME AND FISH COMMISSION; "AN ECOLOGICAL SURVEY OF THE UPPER LAGUNA MADRE OF TEXAS." THE PURPOSE OF THIS REPORT WAS TO EXAMINE "PLANT LIFE; INVERTEBRATES AND VERTEBRATES OF THE AREA AND THE RELATIONSHIP OF THESE TO BASIC PHYSICAL AND BIOLOGICAL FACTORS IN THE ENVIRONMENT." THE DAY WAS ASSUMED TO BE THE 15TH OF EACH MONTH. DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0206

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/15/71-12/15/71	12	25.5	24.083	29.5	17.	19.402	4.405	17.3	20.	27.75	29.35
00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/15/71-12/15/71	12	40.	40.5	55.	25.	124.273	11.148	25.	30.25	52.5	55.
00300	OXYGEN, DISSOLVED MG/L	01/15/71-12/15/71	12	6.	6.25	8.	5.	1.659	1.288	5.	5.	7.75	8.
00400	PH (STANDARD UNITS)	01/15/71-12/15/71	12	8.1	8.15	8.6	7.9	0.035	0.188	7.93	8.025	8.2	8.54
00400	CONVERTED PH (STANDARD UNITS)	01/15/71-12/15/71	12	8.1	8.118	8.6	7.9	0.037	0.191	7.93	8.025	8.2	8.54
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/15/71-12/15/71	12	0.008	0.008	0.013	0.003	0.	0.003	0.003	0.006	0.009	0.012
00480	SALINITY - PARTS PER THOUSAND	01/15/71-12/15/71	12	40.2	35.8	49.9	18.1	149.338	12.22	18.49	20.525	46.175	49.24

** - 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 time series plot

EPA Water Quality Criteria Analysis for Station: PAIS0206

						5/01-10/31			11/01-4/30			n/a			n/a		
Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	12	3	0.25	6	1	0.17	6	2	0.33						
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	12	0	0.00	6	0	0.00	6	0	0.00						
00400	PH	Marine Chronic	8.5	12	1	0.08	6	1	0.17	6	0	0.00						
		Other-Lo Lim.	6.5	12	0	0.00	6	0	0.00	6	0	0.00						

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

Station Inventory for Station: PAIS0207

NPS Station ID: PAIS0207
LAT/LON: 27.508309/ -97.328699
Agency: 11NPSWRD
Date Created: 04/17/99
Location: STATION 27 UPPER LAGUNA MADRE
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SIM2_27
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PITA ISLAND TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 27 IN THE UPPER LAGUNA MADRE. DATA ARE FROM A REPORT BY ERNEST G. SIMMONS OF THE TEXAS GAME AND FISH COMMISSION; "AN ECOLOGICAL SURVEY OF THE UPPER LAGUNA MADRE OF TEXAS." THE PURPOSE OF THIS REPORT WAS TO EXAMINE "PLANT LIFE; INVERTEBRATES AND VERTEBRATES OF THE AREA AND THE RELATIONSHIP OF THESE TO BASIC PHYSICAL AND BIOLOGICAL FACTORS IN THE ENVIRONMENT." SALINITY DATA IS THE AVERAGE FOR THE MONTH. DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0207

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: PAIS0208

NPS Station ID: PAIS0208 LAT/LON: 27.521615/ -97.298587 Agency: 11NPSWRD Date Created: 06/12/99
Location: MARKER 47 ON THE INTRACOASTAL WATERWAY FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): PAIS_SMEV_47
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110203 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110203 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PITA ISLAND TEXAS 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT MARKER 47 ON THE INTRACOASTAL WATERWAY. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0208

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/17/75-07/17/75	1	27.6	27.6	27.6	27.6	0.	0.	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	07/17/75-07/17/75	1	36.8	36.8	36.8	36.8	0.	0.	**	**	**	**

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

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

Station Inventory for Station: PAIS0209

NPS Station ID: PAIS0209
LAT/LON: 27.522392/ -97.298476
Agency: 11NPSWRD
Date Created: 02/20/99
Location: UPPER LAGUNA MADRE TRANSECT 3 SITE 1
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_TWDB_03-1
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PITA ISLAND TEXAS 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT TRANSECT 3 SITE 1 IN THE UPPER LAGUNA MADRE. DATA ARE FROM A SERIES OF YEARLY REPORTS (NUMBERS 117; 144; 171; AND 191) BY D. C. HAHL AND KARL W. RATZLAFF OF THE U.S. GEOLOGICAL SURVEY FOR THE TEXAS WATER DEVELOPMENT BOARD. THE REPORTS ARE TITLED "CHEMICAL AND PHYSICAL CHARACTERISTICS OF WATER IN ESTUARIES OF TEXAS SEPTEMBER 1967-SEPTEMBER 1968; OCTOBER 1968-SEPTEMBER 1969; OCTOBER 1969-SEPTEMBER 1970; AND OCTOBER 1970-SEPTEMBER 1971" AND WERE PUBLISHED IN MAY 1970; APRIL 1972; JUNE 1973; AND MAY 1975 RESPECTIVELY. THE PURPOSE OF THESE REPORTS WAS TO CREATE "A LONG-TERM RECORD OF THE CHEMICAL; PHYSICAL; AND HYDRAULIC CHARACTERISTICS OF THE TEXAS ESTUARINE SYSTEMS." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0209

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/28/68-10/08/70	13	7.	7.462	15.	1.	24.436	4.943	1.	3.	11.5	14.6
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/28/68-10/08/70	13	28.3	28.254	30.2	26.7	1.349	1.162	26.74	27.1	29.2	30.08
00078	TRANSPARENCY, SECCHI DISC (METERS)	08/28/68-10/08/70	3	1.75	1.193	1.78	0.05	0.981	0.99	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/28/68-10/08/70	13	56000.	61000.	79000.	47000.	158666666.667	12596.296	47000.	49500.	75000.	77400.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/16/69-10/08/70	4	64600.	64975.	74200.	56500.	91929166.667	9587.97	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/28/68-10/08/70	13	5.6	5.385	7.	3.	1.268	1.126	3.28	4.8	5.9	6.92
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/28/68-10/08/70	13	88.	89.615	132.	54.	503.59	22.441	58.8	74.5	100.	130.4
00310	BOD, 5 DAY, 20 DEG C MG/L	08/28/68-10/08/70	5	1.5	2.78	8.	1.3	8.537	2.922	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	08/28/68-10/08/70	13	8.3	8.346	8.6	8.1	0.038	0.194	8.1	8.15	8.55	8.6
00406	CONVERTED PH, FIELD, STANDARD UNITS	08/28/68-10/08/70	13	8.3	8.307	8.6	8.1	0.039	0.198	8.1	8.15	8.55	8.6
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/28/68-10/08/70	13	0.005	0.005	0.008	0.003	0.	0.002	0.003	0.003	0.007	0.008
00440	BICARBONATE ION (MG/L AS HCO3)	08/28/68-09/16/69	3	146.	144.667	147.	141.	10.333	3.215	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/08/70-10/08/70	2	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/08/70-10/08/70	2	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/16/69-10/08/70	4	## 0.	0.025	0.1	0.	0.003	0.05	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	08/28/68-08/28/68	2	0.09	0.09	0.09	0.09	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	08/28/68-08/28/68	2	0.065	0.065	0.07	0.06	0.	0.007	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/16/69-10/08/70	4	0.035	0.06	0.16	0.01	0.005	0.068	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/16/69-10/08/70	4	0.02	0.023	0.04	0.01	0.	0.015	**	**	**	**

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

Parameter Inventory for Station: PAIS0209

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/28/68-09/16/69	3	6380.	6613.333	9580.	3880.	8163333.333	2857.155	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/28/68-09/16/69	3	438.	491.	650.	385.	19663.	140.225	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/28/68-09/16/69	3	1310.	1500.	1960.	1230.	160300.	400.375	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	08/28/68-09/16/69	3	10800.	12040.	15700.	9620.	10394800.	3224.097	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/28/68-09/16/69	3	19100.	21433.333	27900.	17300.	32173333.333	5672.154	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/28/68-09/16/69	3	2780.	3070.	4100.	2330.	846300.	919.946	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/16/69-09/16/69	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/28/68-10/08/70	6	1.55	2.9	6.8	0.7	6.98	2.642	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	09/16/69-09/16/69	1	6800.	6800.	6800.	6800.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/16/69-09/16/69	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/16/69-09/16/69	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	09/16/69-09/16/69	2	11.5	11.5	12.	11.	0.5	0.707	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	09/16/69-09/16/69	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	09/16/69-09/16/69	2 ##	0.5	0.5	1.	0.	0.5	0.707	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/16/69-09/16/69	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01082	STRONTIUM, TOTAL (UG/L AS SR)	09/16/69-09/16/69	2	12000.	12000.	12000.	12000.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	09/16/69-09/16/69	2	30.	30.	40.	20.	200.	14.142	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	09/16/69-09/16/69	2	280.	280.	280.	280.	0.	0.	**	**	**	**
46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	08/28/68-09/16/69	3	6500.	7400.	9700.	6000.	4030000.	2007.486	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/28/68-09/16/69	3	35.	16822.	50400.	31.	845611567.	29079.401	**	**	**	**
71820	DENSITY (GM/ML AT 20 C)	08/28/68-08/28/68	2	1.021	1.021	1.023	1.019	0.	0.003	**	**	**	**
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	08/28/68-08/28/68	2	0.45	0.45	0.6	0.3	0.045	0.212	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/28/68-08/28/68	2	0.15	0.15	0.2	0.1	0.005	0.071	**	**	**	**
71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	08/28/68-08/28/68	2	0.015	0.015	0.02	0.01	0.	0.007	**	**	**	**
71865	IODIDE (MG/L AS I)	09/16/69-09/16/69	1	0.24	0.24	0.24	0.24	0.	0.	**	**	**	**
71870	BROMIDE (MG/L AS BR)	09/16/69-09/16/69	1	89.	89.	89.	89.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: PAIS0209

				Total	Exceed	Prop.	----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------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.	13	2	0.15	13	2	0.15									
00406	PH, FIELD	Marine Chronic	8.5	13	5	0.38	13	5	0.38									
		Other-Lo Lim.	6.5	13	0	0.00	13	0	0.00									
01025	CADMIUM, DISSOLVED	Marine Acute	43.	2	0	0.00	2	0	0.00									
01040	COPPER, DISSOLVED	Marine Acute	2.9	2	2	1.00	2	2	1.00									
01049	LEAD, DISSOLVED	Marine Acute	220.	2	0	0.00	2	0	0.00									
01090	ZINC, DISSOLVED	Marine Acute	95.	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: PAIS0210

NPS Station ID: PAIS0210
LAT/LON: 27.525559/ -97.296670
Agency: 112WRD
Date Created: 09/26/78
Location: 1203401LAGUNA MADRE ES LINE 034 SITE 01
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): 273132097174800
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 12110203001
RF1 Mile Point: 10.960
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 12110203049400.00
RF3 Mile Point: 20.36
Distance from RF3: 0.14
On/Off RF3:
Description:

Parameter Inventory for Station: PAIS0210

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/28/68-03/30/82	63	7.	7.381	16.	1.	28.369	5.326	1.	1.	13.	15.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/28/68-03/30/82	61	24.5	22.959	30.2	7.	38.824	6.231	12.4	18.6	28.05	29.4
00070	TURBIDITY, (JACKSON CANDLE UNITS)	09/28/72-06/04/75	18	20.	28.328	119.9	0.	851.863	29.187	0.	13.75	42.5	70.49
00078	TRANSPARENCY, SECCHI DISC (METERS)	08/28/68-03/30/82	15	1.07	1.605	7.7	0.42	3.101	1.761	0.456	0.74	1.78	4.292
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/28/68-03/30/82	61	46000.	49891.803	79000.	34000.	130441098.361	11421.081	36000.	41000.	58000.	65000.
00300p	OXYGEN, DISSOLVED MG/L	08/28/68-03/30/82	61	6.6	6.685	11.7	3.	3.231	1.797	4.3	5.5	7.75	8.98
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/28/68-03/30/82	61	88.	92.2	145.9	54.	377.942	19.441	67.4	81.5	105.9	117.7
00310	BOD, 5 DAY, 20 DEG C MG/L	08/28/68-10/08/70	6	1.6	3.5	8.	1.3	9.94	3.153	**	**	**	**
00335	COD, .025N K2CR2O7 MG/L	10/08/70-10/08/70	2	37.5	37.5	39.	36.	4.5	2.121	**	**	**	**
00400p	PH (STANDARD UNITS)	08/28/68-03/30/82	61	8.2	8.21	8.6	7.9	0.036	0.189	8.	8.1	8.3	8.58
00400p	CONVERTED PH (STANDARD UNITS)	08/28/68-03/30/82	61	8.2	8.172	8.6	7.9	0.037	0.193	8.	8.1	8.3	8.58
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/28/68-03/30/82	61	0.006	0.007	0.013	0.003	0.	0.003	0.003	0.005	0.008	0.01
00405	CARBON DIOXIDE (MG/L AS CO2)	08/28/68-09/16/69	3	1.1	1.	1.2	0.7	0.07	0.265	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/28/68-09/16/69	3	120.	118.667	120.	116.	5.333	2.309	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/28/68-09/16/69	3	146.	144.667	147.	141.	10.333	3.215	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/28/68-10/08/70	6	0.02	0.16	0.6	0.	0.062	0.249	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/28/68-10/08/70	6	0.015	0.022	0.05	0.	0.001	0.023	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/28/68-10/08/70	6	0.05	0.067	0.2	0.	0.007	0.082	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	08/28/68-10/08/70	6	0.105	0.11	0.21	0.03	0.006	0.075	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/28/68-10/08/70	6	0.065	0.07	0.16	0.01	0.003	0.055	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/28/68-10/08/70	6	0.035	0.037	0.07	0.01	0.001	0.025	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/28/68-09/16/69	3	6500.	7400.	9700.	6000.	4030000.	2007.486	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/28/68-09/16/69	3	6400.	7300.	9600.	5900.	4030000.	2007.486	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/28/68-09/16/69	3	437.9	490.9	649.9	384.9	19663.	140.225	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/28/68-09/16/69	3	1310.	1500.	1960.	1230.	160300.	400.375	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	08/28/68-09/16/69	3	10800.	12040.	15700.	9620.	10394800.	3224.097	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/28/68-09/16/69	3	19100.	21433.333	27900.	17300.	32173333.333	5672.154	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/28/68-09/16/69	3	2780.	3070.	4100.	2330.	846300.	919.946	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/16/69-09/16/69	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/28/68-10/08/70	6	1.55	2.9	6.8	0.7	6.98	2.642	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	09/16/69-09/16/69	1	6800.	6800.	6800.	6800.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/16/69-09/16/69	2	0.	0.	0.	0.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/16/69-09/16/69	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	09/16/69-09/16/69	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	09/16/69-09/16/69	2	11.5	11.5	12.	11.	0.5	0.707	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	09/16/69-09/16/69	2	0.	0.	0.	0.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	09/16/69-09/16/69	2	0.5	0.5	1.	0.	0.5	0.707	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/16/69-09/16/69	2	0.	0.	0.	0.	0.	0.	**	**	**	**

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

Parameter Inventory for Station: PAIS0210

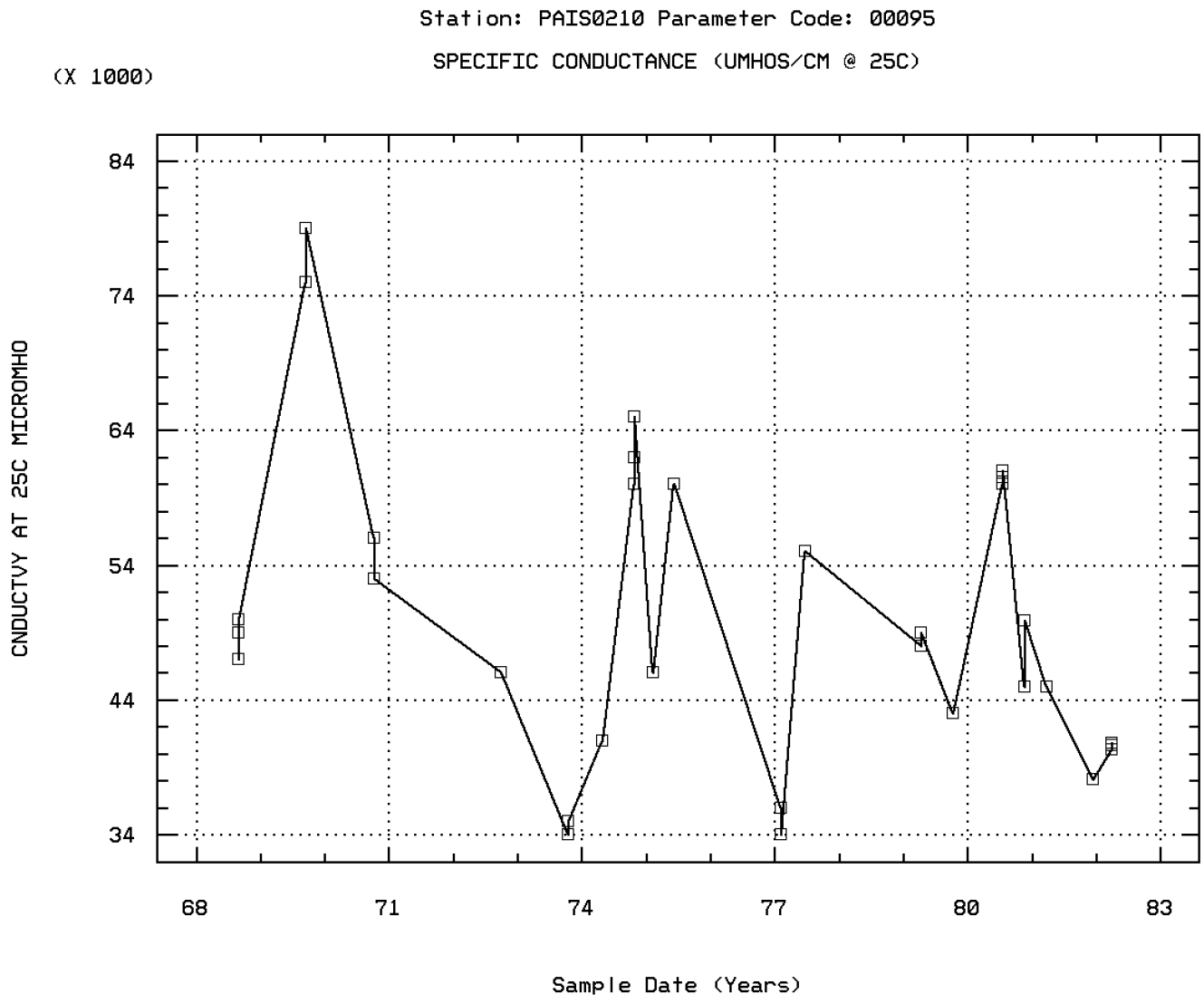
Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	09/16/69-09/16/69	2	12000.	12000.	12000.	12000.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	09/16/69-09/16/69	2	30.	30.	40.	20.	200.	14.142	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	09/16/69-09/16/69	2	280.	280.	280.	280.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/28/68-09/16/69	3	34500.	38600.	50400.	30900.	107670000.	10376.416	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/28/68-09/16/69	3	46.9	52.467	68.5	42.	198.803	14.1	**	**	**	**
71865	IODIDE (MG/L AS I)	09/16/69-09/16/69	1	0.24	0.24	0.24	0.24	0.	0.	**	**	**	**
71870	BROMIDE (MG/L AS BR)	09/16/69-09/16/69	1	89.	89.	89.	89.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: PAIS0210

				Total	Exceed	Prop.	----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------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.	18	4	0.22	11	3	0.27	7	1	0.14						
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	61	4	0.07	37	4	0.11	24	0	0.00						
00400	PH	Marine Chronic	8.5	61	8	0.13	37	8	0.22	24	0	0.00						
		Other-Lo Lim.	6.5	61	0	0.00	37	0	0.00	24	0	0.00						
01025	CADMIUM, DISSOLVED	Marine Acute	43.	2	0	0.00	2	0	0.00									
01032	CHROMIUM, HEXAVALENT	Marine Acute	1100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Marine Acute	2.9	2	2	1.00	2	2	1.00									
01049	LEAD, DISSOLVED	Marine Acute	220.	2	0	0.00	2	0	0.00									
01090	ZINC, DISSOLVED	Marine Acute	95.	2	0	0.00	2	0	0.00									

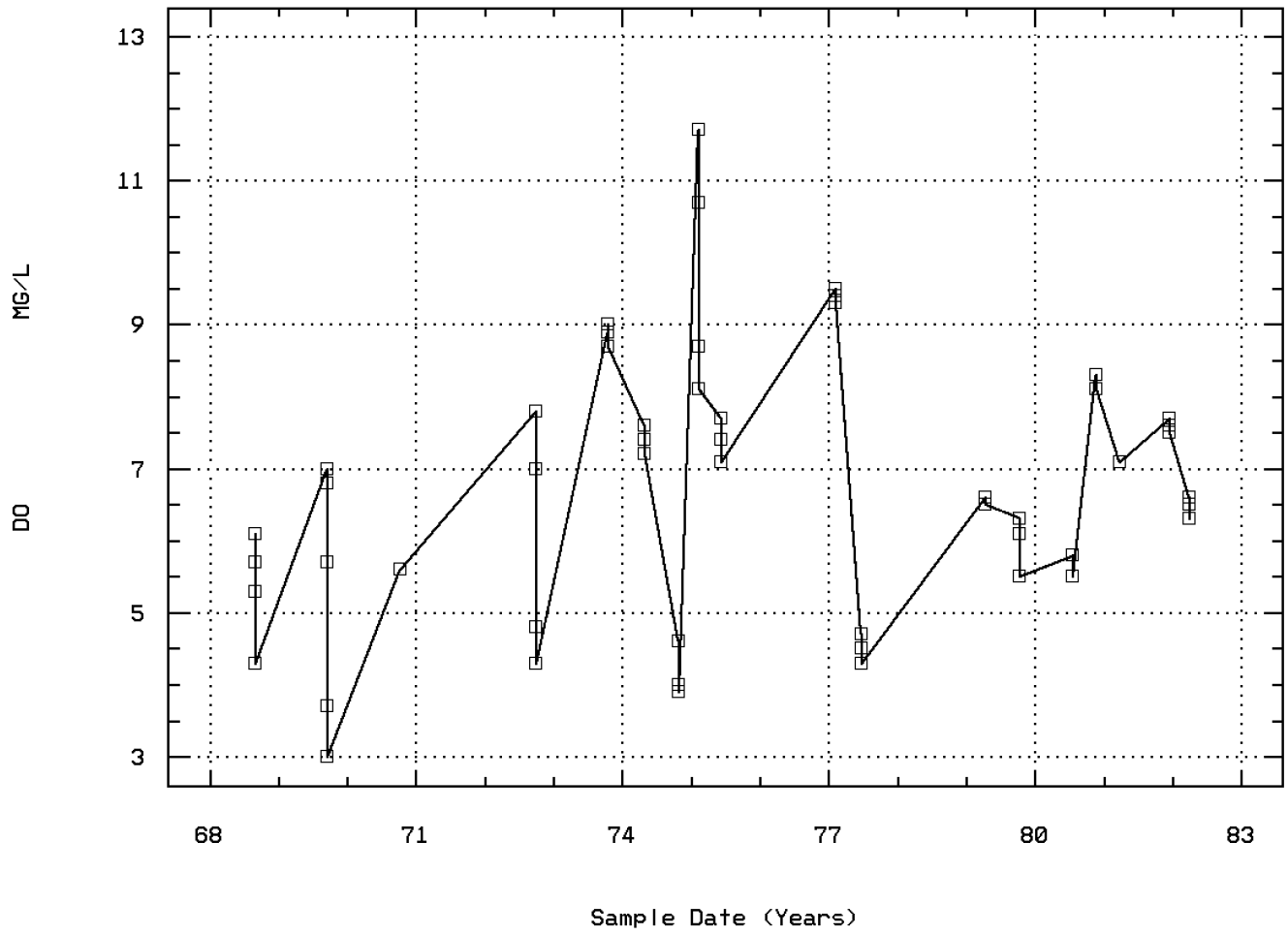
& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter



1203401LAGUNA MADRE ES LINE 034 SITE 01

Station: PAIS0210 Parameter Code: 00300

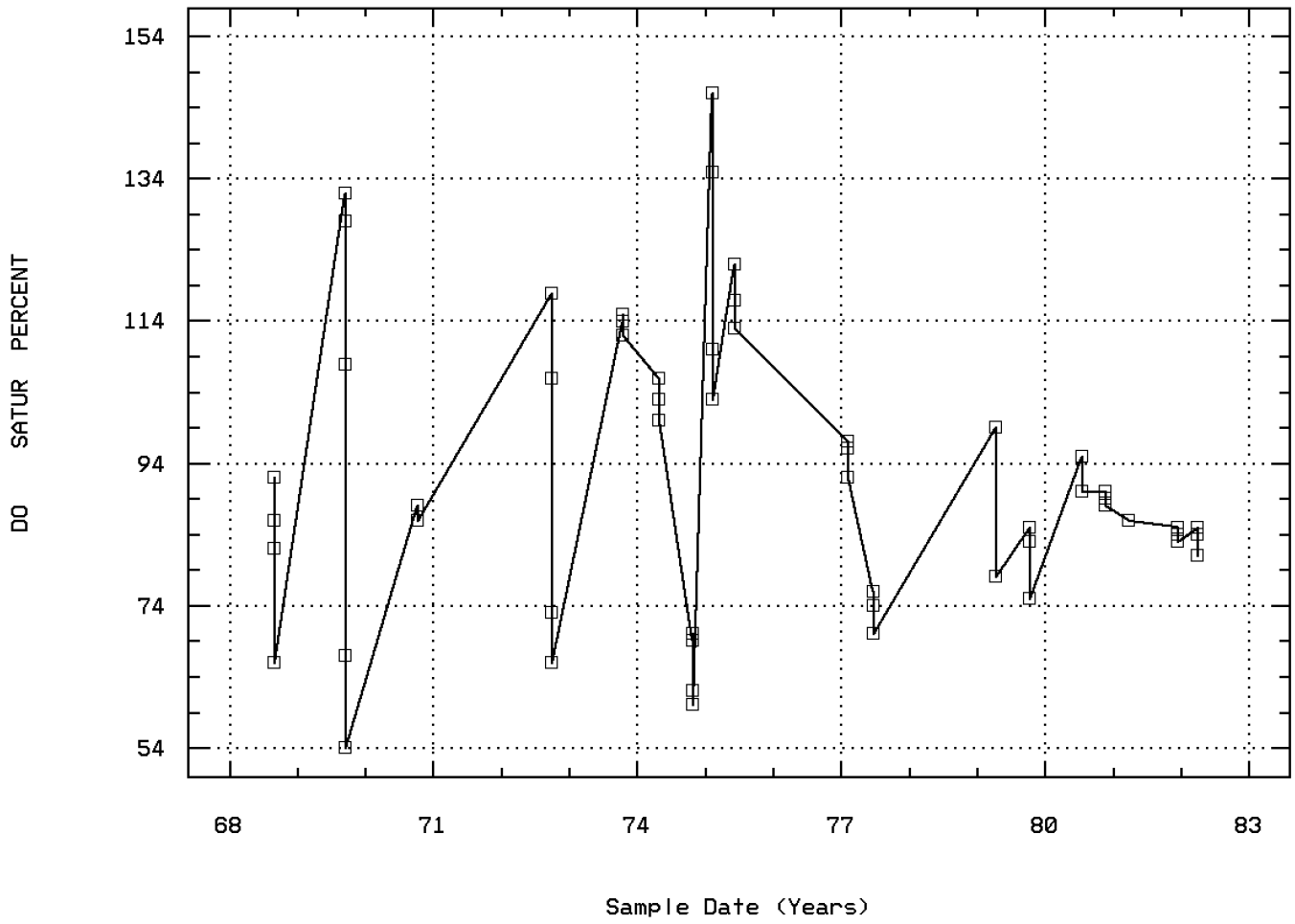
OXYGEN, DISSOLVED



1203401LAGUNA MADRE ES LINE 034 SITE 01

Station: PAIS0210 Parameter Code: 00301

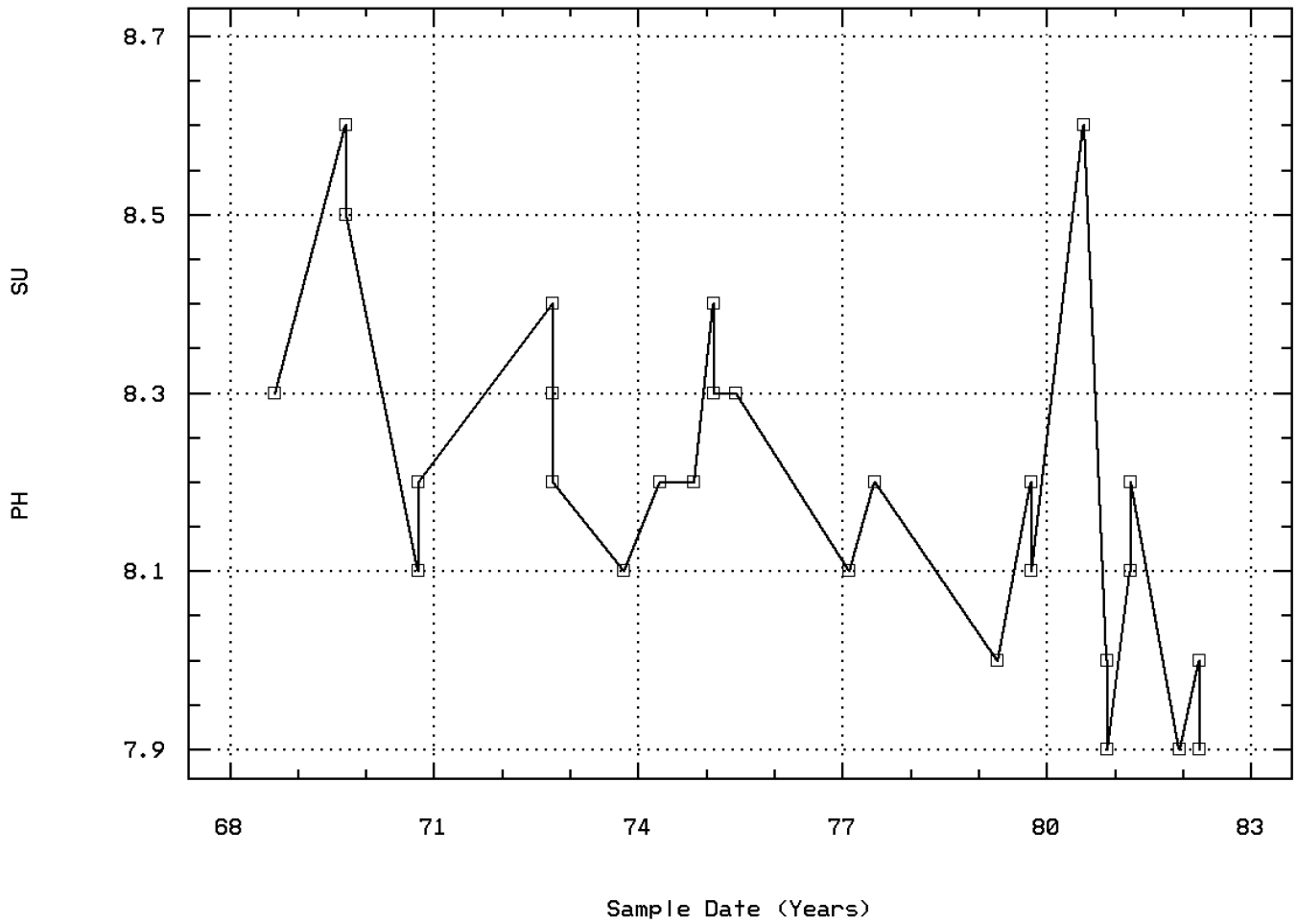
OXYGEN, DISSOLVED, PERCENT OF SATURATIO



1203401LAGUNA MADRE ES LINE 034 SITE 01

Station: PAIS0210 Parameter Code: 00400

PH (STANDARD UNITS)



1203401LAGUNA MADRE ES LINE 034 SITE 01

Seasonal Analysis for Season #1: 5/01 to 10/31 - Station PAIS0210

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/28/68-03/30/82	39	7.	7.59	16.	1.	29.038	5.389	1.	1.	13.	15.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/28/68-03/30/82	37	27.7	26.751	30.2	21.7	6.87	2.621	22.1	24.	28.5	29.74
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/28/68-03/30/82	37	55000.	54662.162	79000.	34000.	145722972.973	12071.577	35000.	46000.	60750.	75000.
00300	OXYGEN, DISSOLVED MG/L	08/28/68-03/30/82	37	5.6	5.862	9.	3.	2.423	1.557	3.98	4.6	7.	8.74
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/28/68-03/30/82	37	88.	90.076	131.9	54.	448.059	21.167	65.2	71.5	112.4	118.7
00400	PH (STANDARD UNITS)	08/28/68-03/30/82	37	8.2	8.289	8.6	8.1	0.029	0.171	8.1	8.2	8.35	8.6
00400	CONVERTED PH (STANDARD UNITS)	08/28/68-03/30/82	37	8.2	8.26	8.6	8.1	0.03	0.174	8.1	8.2	8.35	8.6
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/28/68-03/30/82	37	0.006	0.005	0.008	0.003	0.	0.002	0.003	0.004	0.006	0.008

** - Less than 9 observations ## - Computed 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: 11/01 to 4/30 - Station PAIS0210

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/28/68-03/30/82	24	6.5	7.042	16.	1.	28.303	5.32	1.	1.	12.	14.5
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/28/68-03/30/82	24	18.	17.113	25.	7.	31.724	5.632	8.	12.5	20.5	24.8
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/28/68-03/30/82	24	43000.	42537.5	49900.	34000.	19147663.043	4375.804	36000.	38650.	46000.	48500.
00300	OXYGEN, DISSOLVED MG/L	08/28/68-03/30/82	24	7.6	7.954	11.7	6.3	1.866	1.366	6.5	7.1	8.6	10.1
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/28/68-03/30/82	24	89.5	95.475	145.9	78.	266.176	16.315	82.	85.	102.175	122.4
00400	PH (STANDARD UNITS)	08/28/68-03/30/82	24	8.1	8.087	8.4	7.9	0.022	0.148	7.9	8.	8.2	8.3
00400	CONVERTED PH (STANDARD UNITS)	08/28/68-03/30/82	24	8.1	8.064	8.4	7.9	0.023	0.15	7.9	8.	8.2	8.3
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/28/68-03/30/82	24	0.008	0.009	0.013	0.004	0.	0.003	0.005	0.006	0.01	0.013

** - Less than 9 observations ## - Computed 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: PAIS0211

NPS Station ID: PAIS0211 LAT/LON: 27.529003/ -97.294809 Agency: 11NPSWRD Date Created: 06/12/99
Location: BEACON 45 ON THE INTRACOASTAL WATERWAY FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): PAIS_SMEV_45
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110203 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110203 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PITA ISLAND TEXAS 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT BEACON 45 ON THE INTRACOASTAL WATERWAY. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0211

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/13/75-01/14/76	5	27.5	23.66	30.	14.2	52.993	7.28	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	06/13/75-01/14/76	5	35.4	36.24	43.4	32.	19.833	4.453	**	**	**	**

** - Less than 9 observations ## - 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: PAIS0212

NPS Station ID: PAIS0212 | LAT/LON: 27.529031/ -97.294337 | Agency: 11NPSWRD | Date Created: 04/17/99
Location: LIGHT 45 ON INTRACOASTAL WATERWAY | FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY | STORET Station ID(s): PAIS_ICW_45
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 12110203 | Depth of Water: 0 | Aquifer:
Major Basin: WESTERN GULF | Elevation: 0 | Water Body Id:
Minor Basin: NUECES RIVER | ECO Region:
RF1 Index: 12110203 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: 12110208252000.00 | RF3 Mile Point: 0.00 | Distance from RF3: 0.29 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PITA ISLAND TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT BEACON LIGHT 45 ON THE INTRACOASTAL WATERWAY. DATA ARE FROM A REPORT BY JIM BOWMAN OF THE TEXAS WATER QUALITY BOARD; "DOMESTIC WASTE IN LAGUNA MADRE FROM HOUSES ON SPOIL ISLAND;" JULY 1972. THE PURPOSE OF THIS REPORT WAS TO INVESTIGATE "THE POLLUTION OF THE LAGUNA MADRE FROM DOMESTIC WASTE COMING FROM A NUMBER OF "SQUATTER" CABINS LOCATED ON SPOIL ISLANDS IN THE LAGUNA MADRE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0212

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/07/72-07/07/72	1	8.	8.	8.	8.	0.	0.	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	07/07/72-07/07/72	1	0.903	0.903	0.903	0.903	0.	0.	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			8.								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/07/72-07/07/72	1	8.	8.	8.	8.	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/07/72-07/07/72	1	0.903	0.903	0.903	0.903	0.	0.	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			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: PAIS0212

						----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	1	0	0.00	1	0	0.00									
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: PAIS0213

NPS Station ID: PAIS0213 | LAT/LON: 27.529698/ -97.310838 | Agency: 11NPSWRD | Date Created: 02/20/99
Location: UPPER LAGUNA MADRE TRANSECT 3 SITE 2 | FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY | STORET Station ID(s): PAIS_TWDB_03-2
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 12110203 | Depth of Water: 0 | Aquifer:
Major Basin: WESTERN GULF | Elevation: 0 | Water Body Id:
Minor Basin: NUECES RIVER | ECO Region:
RF1 Index: 12110203 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: 12110208252000.00 | RF3 Mile Point: 0.00 | Distance from RF3: 0.29 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PITA ISLAND TEXAS 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT TRANSECT 3 SITE 2 IN THE UPPER LAGUNA MADRE. DATA ARE FROM A SERIES OF YEARLY REPORTS (NUMBERS 117; 144; 171; AND 191) BY D. C. HAHL AND KARL W. RATZLAFF OF THE U.S. GEOLOGICAL SURVEY FOR THE TEXAS WATER DEVELOPMENT BOARD. THE REPORTS ARE TITLED "CHEMICAL AND PHYSICAL CHARACTERISTICS OF WATER IN ESTUARIES OF TEXAS SEPTEMBER 1967-SEPTEMBER 1968; OCTOBER 1968-SEPTEMBER 1969; OCTOBER 1969-SEPTEMBER 1970; AND OCTOBER 1970-SEPTEMBER 1971" AND WERE PUBLISHED IN MAY 1970; APRIL 1972; JUNE 1973; AND MAY 1975 RESPECTIVELY. THE PURPOSE OF THESE REPORTS WAS TO CREATE "A LONG-TERM RECORD OF THE CHEMICAL; PHYSICAL; AND HYDRAULIC CHARACTERISTICS OF THE TEXAS ESTUARINE SYSTEMS." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0213

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/28/68-09/16/69	5	1.	1.24	2.	0.2	0.588	0.767	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/28/68-09/16/69	5	28.	29.34	31.4	27.9	3.538	1.881	**	**	**	**
00078	TRANSPARENCY, SECCHI DISC (METERS)	09/16/69-09/16/69	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/28/68-09/16/69	5	44000.	56400.	75000.	44000.	288300000.	16979.399	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/28/68-09/16/69	5	6.7	8.1	11.4	4.9	8.515	2.918	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/28/68-09/16/69	5	102.	141.2	220.	74.	4785.2	69.175	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	09/16/69-09/16/69	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	08/28/68-09/16/69	5	8.4	8.52	8.7	8.4	0.027	0.164	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	08/28/68-09/16/69	5	8.4	8.497	8.7	8.4	0.028	0.166	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/28/68-09/16/69	5	0.004	0.003	0.004	0.002	0.	0.001	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/16/69-09/16/69	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/16/69-09/16/69	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/16/69-09/16/69	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/16/69-09/16/69	1	5.5	5.5	5.5	5.5	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: PAIS0213

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------5/01-10/31---------- Obs	Exceed	Prop.	----------11/01-4/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	5	0	0.00	5	0	0.00									
00406	PH, FIELD	Marine Chronic	8.5	5	2	0.40	5	2	0.40									
		Other-Lo Lim.	6.5	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: PAIS0214

NPS Station ID: PAIS0214
LAT/LON: 27.530004/ -97.288920
Agency: 11NPSWRD
Date Created: 04/17/99
Location: STATION 26 UPPER LAGUNA MADRE
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SIMM_26
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PITA ISLAND TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS INSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 26 IN THE UPPER LAGUNA MADRE. DATA ARE FROM A REPORT BY ERNEST G. SIMMONS OF THE TEXAS GAME AND FISH COMMISSION; "AN ECOLOGICAL SURVEY OF THE UPPER LAGUNA MADRE OF TEXAS." THE PURPOSE OF THIS REPORT WAS TO EXAMINE "PLANT LIFE; INVERTEBRATES AND VERTEBRATES OF THE AREA AND THE RELATIONSHIP OF THESE TO BASIC PHYSICAL AND BIOLOGICAL FACTORS IN THE ENVIRONMENT." THE DAY WAS ASSUMED TO BE THE 15TH OF EACH MONTH. FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT PADRE ISLAND NATIONAL SEASHORE; P.O. BOX 181300; CORPUS CHRISTI TX 78480-1300 (TEL. 361-949-8173). DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0214

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/15/71-12/15/71	12	25.5	24.292	30.	17.5	19.203	4.382	17.65	20.125	28.25	29.7
00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/15/71-12/15/71	12	37.	36.167	48.	25.	80.152	8.953	25.	26.25	45.	47.7
00300	OXYGEN, DISSOLVED MG/L	01/15/71-12/15/71	12	6.	6.5	8.	5.	0.818	0.905	5.3	6.	7.	8.
00400	PH (STANDARD UNITS)	01/15/71-12/15/71	12	8.25	8.25	8.6	7.9	0.061	0.247	7.93	8.025	8.525	8.6
00400	CONVERTED PH (STANDARD UNITS)	01/15/71-12/15/71	12	8.247	8.191	8.6	7.9	0.065	0.254	7.93	8.025	8.525	8.6
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/15/71-12/15/71	12	0.006	0.006	0.013	0.003	0.	0.003	0.003	0.003	0.009	0.012
00480	SALINITY - PARTS PER THOUSAND	01/15/71-12/15/71	12	42.7	38.15	52.1	20.	141.699	11.904	20.39	23.875	46.7	51.77

** - 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

EPA Water Quality Criteria Analysis for Station: PAIS0214

						----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	12	0	0.00	6	0	0.00	6	0	0.00						
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	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

EPA Water Quality Criteria Analysis for Station: PAIS0214

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	5/01-10/31 Obs	5/01-10/31 Exceed	5/01-10/31 Prop.	11/01-4/30 Obs	11/01-4/30 Exceed	11/01-4/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400 PH	Marine Chronic	8.5	12	3	0.25	6	3	0.50	6	0	0.00						
	Other-Lo Lim.	6.5	12	0	0.00	6	0	0.00	6	0	0.00						

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

Station Inventory for Station: PAIS0215

NPS Station ID: PAIS0215
LAT/LON: 27.530004/ -97.288920
Agency: 11NPSWRD
Date Created: 04/17/99
Location: STATION 26 UPPER LAGUNA MADRE
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SIM2_26
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PITA ISLAND TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS INSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 26 IN THE UPPER LAGUNA MADRE. DATA ARE FROM A REPORT BY ERNEST G. SIMMONS OF THE TEXAS GAME AND FISH COMMISSION; "AN ECOLOGICAL SURVEY OF THE UPPER LAGUNA MADRE OF TEXAS." THE PURPOSE OF THIS REPORT WAS TO EXAMINE "PLANT LIFE; INVERTEBRATES AND VERTEBRATES OF THE AREA AND THE RELATIONSHIP OF THESE TO BASIC PHYSICAL AND BIOLOGICAL FACTORS IN THE ENVIRONMENT." SALINITY DATA IS THE AVERAGE FOR THE MONTH. FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT PADRE ISLAND NATIONAL SEASHORE; P.O. BOX 181300; CORPUS CHRISTI TX 78480-1300 (TEL. 361-949-8168). DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0215

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: PAIS0216

NPS Station ID: PAIS0216 | LAT/LON: 27.532448/ -97.273309 | Agency: 11NPSWRD | Date Created: 06/12/99
Location: STATION 42K IN THE LAGUNA MADRE | FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY | STORET Station ID(s): PAIS_SMEV_42K
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 12110203 | Depth of Water: 0 | Aquifer:
Major Basin: WESTERN GULF | Elevation: 0 | Water Body Id:
Minor Basin: NUECES RIVER | ECO Region:
RF1 Index: 12110203 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: 12110208252000.00 | RF3 Mile Point: 0.00 | Distance from RF3: 0.29 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PITA ISLAND TEXAS 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS INSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 42K IN THE LAGUNA MADRE. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT PADRE ISLAND NATIONAL SEASHORE; P.O. BOX 181300; CORPUS CHRISTI TX 78480-1300 (TEL. 361-949-8173). DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0216

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/24/75-07/24/75	1	33.4	33.4	33.4	33.4	0.	0.	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	07/24/75-07/24/75	1	37.1	37.1	37.1	37.1	0.	0.	**	**	**	**

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

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

Station Inventory for Station: PAIS0217

NPS Station ID: PAIS0217 LAT/LON: 27.532559/ -97.292948 Agency: 11NPSWRD Date Created: 06/12/99
Location: MARKER 44 ON THE INTRACOASTAL WATERWAY FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): PAIS_SMEV_44
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110203 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110203 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PITA ISLAND TEXAS 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT MARKER 44 ON THE INTRACOASTAL WATERWAY. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0217

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/24/75-07/24/75	1	29.8	29.8	29.8	29.8	0.	0.	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	07/24/75-07/24/75	1	35.3	35.3	35.3	35.3	0.	0.	**	**	**	**

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

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

Station Inventory for Station: PAIS0218

NPS Station ID: PAIS0218
LAT/LON: 27.532948/ -97.274781
Agency: 11NPSWRD
Date Created: 06/12/99
Location: STATION 42H IN THE LAGUNA MADRE
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SMEV_42H
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PITA ISLAND TEXAS 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS INSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 42H IN THE LAGUNA MADRE. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT PADRE ISLAND NATIONAL SEASHORE; P.O. BOX 181300; CORPUS CHRISTI TX 78480-1300 (TEL. 361-949-8173). DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0218

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/17/75-07/17/75	1	31.7	31.7	31.7	31.7	0.	0.	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	07/17/75-07/17/75	1	34.9	34.9	34.9	34.9	0.	0.	**	**	**	**

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

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

Station Inventory for Station: PAIS0219

NPS Station ID: PAIS0219
LAT/LON: 27.534170/ -97.314170
Agency: 112WRD
Date Created: 05/19/79
Location: 1203402LAGUNA MADRE ES LINE 034 SITE 02
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): 273203097185100
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 12110203001
RF1 Mile Point: 10.960
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 12110203048900.00
RF3 Mile Point: 0.00
Distance from RF3: 0.17
On/Off RF3:
Description:

Parameter Inventory for Station: PAIS0219

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/28/68-03/30/82	37	2.	3.059	14.	0.2	10.131	3.183	1.	1.	4.	6.8
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/28/68-03/30/82	37	27.	24.105	32.	10.5	38.407	6.197	12.	20.	28.	31.52
00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/24/73-10/23/74	6	15.	25.667	80.	12.	720.667	26.845	**	**	**	**
00078	TRANSPARENCY, SECCHI DISC (METERS)	09/16/69-03/30/82	10	0.78	0.776	1.22	0.48	0.067	0.259	0.482	0.515	1.005	1.2
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/28/68-03/30/82	37	51000.	49800.	75000.	33000.	102003888.889	10099.697	38180.	42500.	53000.	66060.
00300	OXYGEN, DISSOLVED MG/L	08/28/68-03/30/82	37	7.1	7.324	11.4	4.6	3.564	1.888	4.88	6.	8.7	10.68
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/28/68-03/30/82	37	96.	107.386	219.9	70.	1363.182	36.921	74.8	86.	109.9	171.8
00310	BOD, 5 DAY, 20 DEG C MG/L	09/16/69-06/27/78	2	7.05	7.05	8.1	6.	2.205	1.485	**	**	**	**
00400	PH (STANDARD UNITS)	08/28/68-03/30/82	35	8.2	8.226	8.7	7.9	0.061	0.247	7.9	8.	8.4	8.7
00400	CONVERTED PH (STANDARD UNITS)	08/28/68-03/30/82	35	8.2	8.164	8.7	7.9	0.065	0.254	7.9	8.	8.4	8.7
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/28/68-03/30/82	35	0.006	0.007	0.013	0.002	0.	0.003	0.002	0.004	0.01	0.013
00600	NITROGEN, TOTAL (MG/L AS N)	06/27/78-04/12/79	5	0.81	0.99	1.5	0.67	0.122	0.349	**	**	**	**
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	06/27/78-04/12/79	5	0.74	0.926	1.5	0.6	0.139	0.373	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/16/69-04/12/79	6	0.06	0.06	0.13	0.	0.002	0.044	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	09/16/69-04/12/79	6 ##	0.005	0.005	0.01	0.	0.	0.003	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/16/69-04/12/79	6	0.01	0.007	0.01	0.	0.	0.005	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/27/78-04/12/79	5	0.8	0.986	1.5	0.66	0.124	0.353	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/27/78-04/12/79	5	0.01	0.02	0.05	0.01	0.	0.017	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	04/11/79-04/12/79	4	0.09	0.105	0.15	0.09	0.001	0.03	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/16/69-09/16/69	1	0.09	0.09	0.09	0.09	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/16/69-04/12/79	6	0.03	0.037	0.05	0.03	0.	0.01	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/16/69-09/16/69	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	06/27/78-04/12/79	5	8.1	10.32	15.	7.6	11.817	3.438	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/16/69-09/16/69	1	5.5	5.5	5.5	5.5	0.	0.	**	**	**	**
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	04/11/79-04/12/79	4	0.085	0.11	0.2	0.07	0.004	0.062	**	**	**	**
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	04/11/79-04/12/79	4	0.09	0.105	0.15	0.09	0.001	0.03	**	**	**	**
71887	NITROGEN, TOTAL, AS NO3 - MG/L	06/27/78-04/12/79	5	3.6	4.42	6.7	3.	2.472	1.572	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: PAIS0219

			Total	Exceed	Prop.	----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------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.	6	1	0.17	6	1	0.17									

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

EPA Water Quality Criteria Analysis for Station: PAIS0219

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	5/01-10/31 Obs	5/01-10/31 Exceed	5/01-10/31 Prop.	11/01-4/30 Obs	11/01-4/30 Exceed	11/01-4/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	37	0	0.00	23	0	0.00	14	0	0.00						
00400	PH	Marine Chronic	8.5	35	4	0.11	21	4	0.19	14	0	0.00						
		Other-Lo Lim.	6.5	35	0	0.00	21	0	0.00	14	0	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: 5/01 to 10/31 - Station PAIS0219

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/28/68-03/30/82	23	2.	3.009	14.	0.2	10.856	3.295	1.	1.	4.	8.4
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/28/68-03/30/82	23	27.6	27.517	32.	22.	10.841	3.293	22.14	24.4	31.	32.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/28/68-03/30/82	23	52000.	51926.087	75000.	33000.	138084743.083	11750.946	35800.	43000.	60500.	71520.
00300	OXYGEN, DISSOLVED MG/L	08/28/68-03/30/82	23	6.5	7.33	11.4	4.6	5.515	2.348	4.74	5.3	9.6	11.12
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/28/68-03/30/82	23	98.	115.578	219.9	70.	2020.117	44.946	72.2	81.	143.	198.74
00400	PH (STANDARD UNITS)	08/28/68-03/30/82	21	8.4	8.31	8.7	7.9	0.064	0.253	7.92	8.1	8.4	8.7
00400	CONVERTED PH (STANDARD UNITS)	08/28/68-03/30/82	21	8.4	8.243	8.7	7.9	0.069	0.262	7.92	8.1	8.4	8.7
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/28/68-03/30/82	21	0.004	0.006	0.013	0.002	0.	0.003	0.002	0.004	0.008	0.012

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

Seasonal Analysis for Season #2: 11/01 to 4/30 - Station PAIS0219

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/28/68-03/30/82	14	2.	3.143	12.	1.	9.67	3.11	1.	1.	4.5	9.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/28/68-03/30/82	14	18.	18.5	27.	10.5	33.577	5.795	10.5	12.	24.5	27.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/28/68-03/30/82	14	47000.	46307.143	53000.	38100.	27654560.44	5258.76	38150.	40600.	51000.	52000.
00300	OXYGEN, DISSOLVED MG/L	08/28/68-03/30/82	14	7.2	7.314	8.7	6.4	0.537	0.733	6.45	6.575	7.7	8.7
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/28/68-03/30/82	14	94.	93.929	103.	82.	42.533	6.522	82.	91.25	99.25	102.
00400	PH (STANDARD UNITS)	08/28/68-03/30/82	14	8.1	8.1	8.4	7.9	0.032	0.18	7.9	7.9	8.225	8.4
00400	CONVERTED PH (STANDARD UNITS)	08/28/68-03/30/82	14	8.1	8.068	8.4	7.9	0.033	0.183	7.9	7.9	8.225	8.4
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/28/68-03/30/82	14	0.008	0.009	0.013	0.004	0.	0.003	0.004	0.006	0.013	0.013

** - Less than 9 observations ## - Computed 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: PAIS0220

NPS Station ID: PAIS0220 | LAT/LON: 27.534281/ -97.277837 | Agency: 11NPSWRD | Date Created: 06/12/99
Location: STATION 42G IN THE LAGUNA MADRE | FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY | STORET Station ID(s): PAIS_SMEV_42G
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 12110203 | Depth of Water: 0 | Aquifer:
Major Basin: WESTERN GULF | Elevation: 0 | Water Body Id:
Minor Basin: NUECES RIVER | ECO Region:
RF1 Index: 12110203 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: 12110208252000.00 | RF3 Mile Point: 0.00 | Distance from RF3: 0.29 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PITA ISLAND TEXAS 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS INSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 42G IN THE LAGUNA MADRE. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT PADRE ISLAND NATIONAL SEASHORE; P.O. BOX 181300; CORPUS CHRISTI TX 78480-1300 (TEL. 361-949-8173). DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0220

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/17/75-07/17/75	1	28.5	28.5	28.5	28.5	0.	0.	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	07/17/75-07/17/75	1	34.9	34.9	34.9	34.9	0.	0.	**	**	**	**

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

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

Station Inventory for Station: PAIS0221

NPS Station ID: PAIS0221 | LAT/LON: 27.534615/ -97.278615 | Agency: 11NPSWRD | Date Created: 06/12/99
Location: STATION 42J IN THE LAGUNA MADRE | FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY | STORET Station ID(s): PAIS_SMEV_42J
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 12110203 | Depth of Water: 0 | Aquifer:
Major Basin: WESTERN GULF | Elevation: 0 | Water Body Id:
Minor Basin: NUECES RIVER | ECO Region:
RF1 Index: 12110203 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: 12110208252000.00 | RF3 Mile Point: 0.00 | Distance from RF3: 0.29 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PITA ISLAND TEXAS 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS INSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 42J IN THE LAGUNA MADRE. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT PADRE ISLAND NATIONAL SEASHORE; P.O. BOX 181300; CORPUS CHRISTI TX 78480-1300 (TEL. 361-949-8173). DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0221

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/24/75-07/24/75	1	32.	32.	32.	32.	0.	0.	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	07/24/75-07/24/75	1	35.9	35.9	35.9	35.9	0.	0.	**	**	**	**

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

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

Station Inventory for Station: PAIS0222

NPS Station ID: PAIS0222 | LAT/LON: 27.535531/ -97.281227 | Agency: 11NPSWRD | Date Created: 06/12/99
Location: STATION 42F IN THE LAGUNA MADRE | FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY | STORET Station ID(s): PAIS_SMEV_42F
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 12110203 | Depth of Water: 0 | Aquifer:
Major Basin: WESTERN GULF | Elevation: 0 | Water Body Id:
Minor Basin: NUECES RIVER | ECO Region:
RF1 Index: 12110203 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: 12110208252000.00 | RF3 Mile Point: 0.00 | Distance from RF3: 0.29 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PITA ISLAND TEXAS 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS INSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 42F IN THE LAGUNA MADRE. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT PADRE ISLAND NATIONAL SEASHORE; P.O. BOX 181300; CORPUS CHRISTI TX 78480-1300 (TEL. 361-949-8173). DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0222

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/17/75-07/17/75	1	27.9	27.9	27.9	27.9	0.	0.	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	07/17/75-07/17/75	1	36.7	36.7	36.7	36.7	0.	0.	**	**	**	**

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

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

Station Inventory for Station: PAIS0223

NPS Station ID: PAIS0223 LAT/LON: 27.536420/ -97.291087 Agency: 11NPSWRD Date Created: 06/12/99
Location: MARKER 43 ON THE INTRACOASTAL WATERWAY FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): PAIS_SMEV_43
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110203 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110203 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PITA ISLAND TEXAS 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT MARKER 43 ON THE INTRACOASTAL WATERWAY. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0223

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/17/75-11/05/75	4	28.15	27.925	30.4	25.	5.209	2.282	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	07/17/75-11/05/75	4	34.95	34.6	36.9	31.6	5.047	2.246	**	**	**	**

** - Less than 9 observations ## - 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: PAIS0224

NPS Station ID: PAIS0224
LAT/LON: 27.536448/ -97.283726
Agency: 11NPSWRD
Date Created: 06/12/99
Location: STATION 42E IN THE LAGUNA MADRE
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SMEV_42E
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PITA ISLAND TEXAS 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS INSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 42E IN THE LAGUNA MADRE. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT PADRE ISLAND NATIONAL SEASHORE; P.O. BOX 181300; CORPUS CHRISTI TX 78480-1300 (TEL. 361-949-8173). DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0224

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/17/75-07/17/75	1	28.3	28.3	28.3	28.3	0.	0.	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	07/17/75-07/17/75	1	35.7	35.7	35.7	35.7	0.	0.	**	**	**	**

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

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

Station Inventory for Station: PAIS0225

NPS Station ID: PAIS0225
LAT/LON: 27.537559/ -97.286059
Agency: 11NPSWRD
Date Created: 06/12/99
Location: STATION 42D IN THE LAGUNA MADRE
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SMEV_42D
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PITA ISLAND TEXAS 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS INSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 42D IN THE LAGUNA MADRE. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT PADRE ISLAND NATIONAL SEASHORE; P.O. BOX 181300; CORPUS CHRISTI TX 78480-1300 (TEL. 361-949-8173). DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0225

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/17/75-07/17/75	1	28.	28.	28.	28.	0.	0.	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	07/17/75-07/17/75	1	36.5	36.5	36.5	36.5	0.	0.	**	**	**	**

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

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

Station Inventory for Station: PAIS0226

NPS Station ID: PAIS0226
LAT/LON: 27.538226/ -97.287531
Agency: 11NPSWRD
Date Created: 06/12/99
Location: STATION 42C IN THE LAGUNA MADRE
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SMEV_42C
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PITA ISLAND TEXAS 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 42C IN THE LAGUNA MADRE. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0226

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/17/75-07/24/75	2	28.9	28.9	29.8	28.	1.62	1.273	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	07/17/75-07/24/75	2	36.55	36.55	36.7	36.4	0.045	0.212	**	**	**	**

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

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

Station Inventory for Station: PAIS0227

NPS Station ID: PAIS0227
LAT/LON: 27.538642/ -97.288865
Agency: 11NPSWRD
Date Created: 06/12/99
Location: STATION 42B IN THE LAGUNA MADRE
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SMEV_42B
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PITA ISLAND TEXAS 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 42B IN THE LAGUNA MADRE. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0227

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/17/75-07/17/75	1	27.7	27.7	27.7	27.7	0.	0.	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	07/17/75-07/17/75	1	37.	37.	37.	37.	0.	0.	**	**	**	**

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

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

Station Inventory for Station: PAIS0228

NPS Station ID: PAIS0228
LAT/LON: 27.538837/ -97.284893
Agency: 11NPSWRD
Date Created: 06/12/99
Location: STATION 42I IN THE LAGUNA MADRE
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SMEV_42I
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PITA ISLAND TEXAS 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 42I IN THE LAGUNA MADRE. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0228

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/24/75-07/24/75	1	29.5	29.5	29.5	29.5	0.	0.	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	07/24/75-07/24/75	1	36.2	36.2	36.2	36.2	0.	0.	**	**	**	**

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

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

Station Inventory for Station: PAIS0229

NPS Station ID: PAIS0229
LAT/LON: 27.539420/ -97.290476
Agency: 11NPSWRD
Date Created: 06/12/99
Location: STATION 42A IN THE LAGUNA MADRE
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SMEV_42A
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PITA ISLAND TEXAS 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 42A IN THE LAGUNA MADRE. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0229

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/17/75-07/17/75	1	28.	28.	28.	28.	0.	0.	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	07/17/75-07/17/75	1	37.	37.	37.	37.	0.	0.	**	**	**	**

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

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

Station Inventory for Station: PAIS0230

NPS Station ID: PAIS0230 LAT/LON: 27.540253/ -97.288198 Agency: 11NPSWRD Date Created: 06/12/99
Location: MARKER 42 ON THE INTRACOASTAL WATERWAY FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): PAIS_SMEV_42
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110203 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110203 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PITA ISLAND TEXAS 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT MARKER 42 ON THE INTRACOASTAL WATERWAY. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0230

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/17/75-07/24/75	2	28.65	28.65	29.9	27.4	3.125	1.768	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	07/17/75-07/24/75	2	36.05	36.05	36.7	35.4	0.845	0.919	**	**	**	**

** - Less than 9 observations ## - 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: PAIS0231

NPS Station ID: PAIS0231
LAT/LON: 27.541809/ -97.284587
Agency: 11NPSWRD
Date Created: 06/12/99
Location: STATION 41A IN THE LAGUNA MADRE
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SMEV_41A
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PITA ISLAND TEXAS 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 41A IN THE LAGUNA MADRE. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0231

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/24/75-07/24/75	1	33.9	33.9	33.9	33.9	0.	0.	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	07/24/75-07/24/75	1	36.6	36.6	36.6	36.6	0.	0.	**	**	**	**

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

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

Station Inventory for Station: PAIS0232

NPS Station ID: PAIS0232
LAT/LON: 27.542449/ -97.282559
Agency: 11NPSWRD
Date Created: 06/12/99
Location: STATION 40B IN THE LAGUNA MADRE
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SMEV_40B
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PITA ISLAND TEXAS 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 40B IN THE LAGUNA MADRE. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0232

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/24/75-07/24/75	1	31.4	31.4	31.4	31.4	0.	0.	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	07/24/75-07/24/75	1	36.	36.	36.	36.	0.	0.	**	**	**	**

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

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

Station Inventory for Station: PAIS0233

NPS Station ID: PAIS0233 LAT/LON: 27.543949/ -97.286393 Agency: 11NPSWRD Date Created: 06/12/99
Location: MARKER 41 ON THE INTRACOASTAL WATERWAY FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): PAIS_SMEV_41
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110203 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110203 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PITA ISLAND TEXAS 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT MARKER 41 ON THE INTRACOASTAL WATERWAY. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0233

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/17/75-07/24/75	2	28.55	28.55	29.8	27.3	3.125	1.768	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	07/17/75-07/24/75	2	36.15	36.15	36.8	35.5	0.845	0.919	**	**	**	**

** - Less than 9 observations ## - 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: PAIS0234

NPS Station ID: PAIS0234
LAT/LON: 27.544226/ -97.282616
Agency: 11NPSWRD
Date Created: 06/12/99
Location: STATION 40A IN THE LAGUNA MADRE
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SMEV_40A
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PITA ISLAND TEXAS 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 40A IN THE LAGUNA MADRE. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0234

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/24/75-07/24/75	1	32.3	32.3	32.3	32.3	0.	0.	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	07/24/75-07/24/75	1	36.4	36.4	36.4	36.4	0.	0.	**	**	**	**

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

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

Station Inventory for Station: PAIS0235

NPS Station ID: PAIS0235
LAT/LON: 27.548170/ -97.281503
Agency: 11NPSWRD
Date Created: 06/12/99
Location: STATION 39A IN THE LAGUNA MADRE
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SMEV_39A
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PITA ISLAND TEXAS 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 39A IN THE LAGUNA MADRE. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0235

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/24/75-07/24/75	1	32.2	32.2	32.2	32.2	0.	0.	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	07/24/75-07/24/75	1	36.	36.	36.	36.	0.	0.	**	**	**	**

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

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

Station Inventory for Station: PAIS0236

NPS Station ID: PAIS0236
LAT/LON: 27.550476/ -97.278503
Agency: 11NPSWRD
Date Created: 06/12/99
Location: STATION 38B IN THE LAGUNA MADRE
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SMEV_38B
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PITA ISLAND TEXAS 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 38B IN THE LAGUNA MADRE. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0236

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/24/75-07/24/75	1	31.7	31.7	31.7	31.7	0.	0.	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	07/24/75-07/24/75	1	36.3	36.3	36.3	36.3	0.	0.	**	**	**	**

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

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

Station Inventory for Station: PAIS0237

NPS Station ID: PAIS0237 | LAT/LON: 27.551226/ -97.282699 | Agency: 11NPSWRD | Date Created: 04/17/99
Location: LIGHT 39 ON INTRACOASTAL WATERWAY | FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY | STORET Station ID(s): PAIS_ICW_39
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 12110203 | Depth of Water: 0 | Aquifer:
Major Basin: WESTERN GULF | Elevation: 0 | Water Body Id:
Minor Basin: NUECES RIVER | ECO Region:
RF1 Index: 12110203 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: 12110208252000.00 | RF3 Mile Point: 0.00 | Distance from RF3: 0.29 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PITA ISLAND TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT BEACON LIGHT 39 ON THE INTRACOASTAL WATERWAY. DATA ARE FROM A REPORT BY JIM BOWMAN OF THE TEXAS WATER QUALITY BOARD; "DOMESTIC WASTE IN LAGUNA MADRE FROM HOUSES ON SPOIL ISLAND;" JULY 1972. THE PURPOSE OF THIS REPORT WAS TO INVESTIGATE "THE POLLUTION OF THE LAGUNA MADRE FROM DOMESTIC WASTE COMING FROM A NUMBER OF "SQUATTER" CABINS LOCATED ON SPOIL ISLANDS IN THE LAGUNA MADRE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0237

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/07/72-07/07/72	1	12.	12.	12.	12.	0.	0.	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	07/07/72-07/07/72	1	1.079	1.079	1.079	1.079	0.	0.	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			12.								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/07/72-07/07/72	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/07/72-07/07/72	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			1.								

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

EPA Water Quality Criteria Analysis for Station: PAIS0237

				Total	Exceed	Prop.	----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	1	0	0.00	1	0	0.00									
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: PAIS0238

NPS Station ID: PAIS0238 LAT/LON: 27.551281/ -97.282643 Agency: 11NPSWRD Date Created: 06/12/99
Location: BEACON 39 ON THE INTRACOASTAL WATERWAY FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): PAIS_SMEV_39
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110203 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110203 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PITA ISLAND TEXAS 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT BEACON 39 ON THE INTRACOASTAL WATERWAY. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0238

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/17/75-01/14/76	4	22.4	22.025	30.1	13.2	64.456	8.028	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	07/17/75-01/14/76	4	34.45	34.275	36.2	32.	4.196	2.048	**	**	**	**

** - Less than 9 observations ## - 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: PAIS0239

NPS Station ID: PAIS0239
LAT/LON: 27.552559/ -97.280031
Agency: 11NPSWRD
Date Created: 06/12/99
Location: STATION 38A IN THE LAGUNA MADRE
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SMEV_38A
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PITA ISLAND TEXAS 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 38A IN THE LAGUNA MADRE. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0239

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/24/75-07/24/75	1	31.3	31.3	31.3	31.3	0.	0.	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	07/24/75-07/24/75	1	36.1	36.1	36.1	36.1	0.	0.	**	**	**	**

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

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

Station Inventory for Station: PAIS0240

NPS Station ID: PAIS0240
LAT/LON: 27.560198/ -97.309253
Agency: 11NPSWRD
Date Created: 04/17/99
Location: STATION 25 UPPER LAGUNA MADRE
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_BBB_25
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PITA ISLAND TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 25 IN UPPER LAGUNA MADRE. DATA ARE FROM A REPORT BY B. B. BAKER OF THE TEXAS GAME AND FISH COMMISSION; "COMPILATION OF SALINITY DATA FROM THE LAGUNA MADRE;" 1949. THE ORIGINAL REPORT WAS NOT LOCATED; BUT DATA WERE REFERENCED FROM A REPORT BY ERNEST G. SIMMONS; "AN ECOLOGICAL SURVEY OF THE UPPER LAGUNA MADRE." SALINITY DATA IS THE AVERAGE FOR THE MONTH. DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0240

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: PAIS0241

NPS Station ID: PAIS0241
LAT/LON: 27.560198/ -97.309253
Agency: 11NPSWRD
Date Created: 04/17/99
Location: STATION 25 UPPER LAGUNA MADRE
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SIMM_25
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PITA ISLAND TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 25 IN THE UPPER LAGUNA MADRE. DATA ARE FROM A REPORT BY ERNEST G. SIMMONS OF THE TEXAS GAME AND FISH COMMISSION; "AN ECOLOGICAL SURVEY OF THE UPPER LAGUNA MADRE OF TEXAS." THE PURPOSE OF THIS REPORT WAS TO EXAMINE "PLANT LIFE; INVERTEBRATES AND VERTEBRATES OF THE AREA AND THE RELATIONSHIP OF THESE TO BASIC PHYSICAL AND BIOLOGICAL FACTORS IN THE ENVIRONMENT." THE DAY WAS ASSUMED TO BE THE 15TH OF EACH MONTH. DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0241

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/15/71-12/15/71	12	25.25	23.333	30.	14.5	29.288	5.412	15.4	18.125	28.	29.55
00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/15/71-12/15/71	12	37.	39.333	75.	25.	221.333	14.877	25.	26.25	47.25	69.
00300	OXYGEN, DISSOLVED MG/L	01/15/71-12/15/71	12	6.	6.417	8.	5.	1.356	1.165	5.	5.25	7.75	8.
00400	PH (STANDARD UNITS)	01/15/71-12/15/71	11	8.1	8.064	8.4	7.2	0.107	0.326	7.34	8.	8.2	8.4
00400	CONVERTED PH (STANDARD UNITS)	01/15/71-12/15/71	11	8.1	7.9	8.4	7.2	0.136	0.369	7.34	8.	8.2	8.4
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/15/71-12/15/71	11	0.008	0.013	0.063	0.004	0.	0.017	0.004	0.006	0.01	0.053
00480	SALINITY - PARTS PER THOUSAND	01/15/71-12/15/71	12	39.65	37.167	55.5	17.8	174.199	13.198	17.8	22.9	46.975	54.48

** - 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 time series plot

EPA Water Quality Criteria Analysis for Station: PAIS0241

						----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------n/a----------		
Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00070 TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	12	2	0.17	6	1	0.17	6	1	0.17						
00300 OXYGEN, DISSOLVED	Other-Lo Lim.	4.	12	0	0.00	6	0	0.00	6	0	0.00						
00400 PH	Marine Chronic	8.5	11	0	0.00	6	0	0.00	5	0	0.00						
	Other-Lo Lim.	6.5	11	0	0.00	6	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: PAIS0242

NPS Station ID: PAIS0242
LAT/LON: 27.560198/ -97.309253
Agency: 11NPSWRD
Date Created: 04/17/99
Location: STATION 25 UPPER LAGUNA MADRE
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_SIM2_25
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PITA ISLAND TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT STATION 25 IN THE UPPER LAGUNA MADRE. DATA ARE FROM A REPORT BY ERNEST G. SIMMONS OF THE TEXAS GAME AND FISH COMMISSION; "AN ECOLOGICAL SURVEY OF THE UPPER LAGUNA MADRE OF TEXAS." THE PURPOSE OF THIS REPORT WAS TO EXAMINE "PLANT LIFE; INVERTEBRATES AND VERTEBRATES OF THE AREA AND THE RELATIONSHIP OF THESE TO BASIC PHYSICAL AND BIOLOGICAL FACTORS IN THE ENVIRONMENT." SALINITY DATA IS THE AVERAGE FOR THE MONTH. DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0242

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: PAIS0243

NPS Station ID: PAIS0243 LAT/LON: 27.566503/ -97.274837 Agency: 11NPSWRD Date Created: 06/12/99
Location: MARKER 35 ON THE INTRACOASTAL WATERWAY FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): PAIS_SMEV_35
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110203 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110203 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PITA ISLAND TEXAS 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT MARKER 35 ON THE INTRACOASTAL WATERWAY. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0243

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/13/75-06/13/75	1	29.2	29.2	29.2	29.2	0.	0.	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	06/13/75-06/13/75	1	40.9	40.9	40.9	40.9	0.	0.	**	**	**	**

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

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

Station Inventory for Station: PAIS0244

NPS Station ID: PAIS0244 LAT/LON: 27.573699/ -97.270921 Agency: 11NPSWRD Date Created: 06/12/99
Location: BEACON 33 ON THE INTRACOASTAL WATERWAY FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): PAIS_SMEV_33
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110203 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110203 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PITA ISLAND TEXAS 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT BEACON 33 ON THE INTRACOASTAL WATERWAY. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0244

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/11/75-01/14/76	2	15.5	15.5	17.4	13.6	7.22	2.687	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	12/11/75-01/14/76	2	31.85	31.85	32.	31.7	0.045	0.212	**	**	**	**

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

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

Station Inventory for Station: PAIS0245

NPS Station ID: PAIS0245 | LAT/LON: 27.573699/ -97.270948 | Agency: 11NPSWRD | Date Created: 04/17/99
Location: LIGHT 33 ON INTRACOASTAL WATERWAY | FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY | STORET Station ID(s): PAIS_ICW_33
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 12110203 | Depth of Water: 0 | Aquifer:
Major Basin: WESTERN GULF | Elevation: 0 | Water Body Id:
Minor Basin: NUECES RIVER | ECO Region:
RF1 Index: 12110203 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: 12110208252000.00 | RF3 Mile Point: 0.00 | Distance from RF3: 0.29 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PITA ISLAND TEXAS-KLEBERG CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT BEACON LIGHT 33 ON THE INTRACOASTAL WATERWAY. DATA ARE FROM A REPORT BY JIM BOWMAN OF THE TEXAS WATER QUALITY BOARD; "DOMESTIC WASTE IN LAGUNA MADRE FROM HOUSES ON SPOIL ISLAND;" JULY 1972. THE PURPOSE OF THIS REPORT WAS TO INVESTIGATE "THE POLLUTION OF THE LAGUNA MADRE FROM DOMESTIC WASTE COMING FROM A NUMBER OF "SQUATTER" CABINS LOCATED ON SPOIL ISLANDS IN THE LAGUNA MADRE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0245

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/07/72-07/07/72	1	10.	10.	10.	10.	0.	0.	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	07/07/72-07/07/72	1	1.	1.	1.	1.	0.	0.	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			10.								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/07/72-07/07/72	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/07/72-07/07/72	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			1.								

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

EPA Water Quality Criteria Analysis for Station: PAIS0245

						----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	1	0	0.00	1	0	0.00									
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: PAIS0246

NPS Station ID: PAIS0246 LAT/LON: 27.581337/ -97.267088 Agency: 11NPSWRD Date Created: 04/17/99
Location: LIGHT 31 ON THE INTRACOASTAL WATERWAY FIPS State/County: 48355 TEXAS/NUECES
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): PAIS_CONO_31
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110203 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110203 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PITA ISLAND TEXAS 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT LIGHT 31 ON THE INTRACOASTAL INTRACOASTAL WATERWAY. DATA WERE COLLECTED ALONG A TRANSECT PERPENDICULAR TO THE WATERWAY AND AVERAGED FOR THE MONTH. DATA ARE FROM A REPORT BY JOHN T. CONOVER; "THE ECOLOGY; SEASONAL PERIODICITY; AND DISTRIBUTION OF BENTHIC PLANTS IN SOME TEXAS LAGOONS;" OCTOBER 1963. THE PURPOSE OF THIS REPORT WAS TO "STUDY THE LOCAL EFFECTS OF LIGHT; TEMPERATURE; AND SALINITY ON THE SEASONAL GROWTH OF PLANTS." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0246

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: PAIS0247

NPS Station ID: PAIS0247 LAT/LON: 27.581948/ -97.270003 Agency: 21TXDOH Date Created: 03/24/79
Location: LAGUNA MADRE,1 MI OFF COAST OF PADRE ISLAND FIPS State/County: 48355 TEXAS/NUECES
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): LAG00172
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110203 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110203 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110203026200.00 RF3 Mile Point: 0.00 Distance from RF3: 0.10 On/Off RF3:
Description:
DATA FROM TEXAS STATE DEPARTMENT OF HEALTH FISH AND SHELLFISH SAMPLES ANALYZED FOR TOXICS SAMPLE TAKEN FROM
LAGUNA MADRE,1 MILE OFF COAST OF PADRE ISLAND

Parameter Inventory for Station: PAIS0247

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: PAIS0248

NPS Station ID: PAIS0248 LAT/LON: 27.596060/ -97.259142 Agency: 11NPSWRD Date Created: 04/17/99
Location: LIGHT 27 ON THE INTRACOASTAL WATERWAY FIPS State/County: 48355 TEXAS/NUECES
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): PAIS_CONO_27
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110203 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110203 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PITA ISLAND TEXAS 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT LIGHT 27 ON THE INTRACOASTAL INTRACOASTAL WATERWAY. DATA WERE COLLECTED ALONG A TRANSECT PERPENDICULAR TO THE WATERWAY AND AVERAGED FOR THE MONTH. DATA ARE FROM A REPORT BY JOHN T. CONOVER; "THE ECOLOGY; SEASONAL PERIODICITY; AND DISTRIBUTION OF BENTHIC PLANTS IN SOME TEXAS LAGOONS;" OCTOBER 1963. THE PURPOSE OF THIS REPORT WAS TO "STUDY THE LOCAL EFFECTS OF LIGHT; TEMPERATURE; AND SALINITY ON THE SEASONAL GROWTH OF PLANTS." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0248

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: PAIS0249

NPS Station ID: PAIS0249 LAT/LON: 27.596087/ -97.259142 Agency: 11NPSWRD Date Created: 06/12/99
Location: BEACON 27 ON THE INTRACOASTAL WATERWAY FIPS State/County: 48355 TEXAS/NUECES
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): PAIS_SMEV_27
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110203 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110203 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PITA ISLAND TEXAS 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT BEACON 27 ON THE INTRACOASTAL WATERWAY. DATA ARE FROM A REPORT BY NED P. SMITH AND JAMES C. EVENS; "PHYSICAL PROCESSES IN UPPER LAGUNA MADRE;" APRIL 1976. THE PURPOSE OF THIS REPORT WAS TO "INVESTIGATE A SERIES OF PHYSICAL PROCESSES FOR THE NATIONAL PARK SERVICE WHICH WOULD RESULT IN A DATA BASE TO BOTH FILL EXISTING GAPS AND PROVIDE INFORMATION NEEDED FOR MANAGEMENT DECISIONS AFFECTING THE ADJACENT NATIONAL SEASHORE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0249

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/11/75-01/14/76	2	15.4	15.4	17.3	13.5	7.22	2.687	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	12/11/75-01/14/76	2	31.75	31.75	31.9	31.6	0.045	0.212	**	**	**	**

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

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

Station Inventory for Station: PAIS0250

NPS Station ID: PAIS0250 | LAT/LON: 27.596170/ -97.259142 | Agency: 11NPSWRD | Date Created: 04/17/99
Location: LIGHT 27 ON INTRACOASTAL WATERWAY | FIPS State/County: 48355 TEXAS/NUECES
Station Type: /TYPA/AMBNT/ESTURY | STORET Station ID(s): PAIS_ICW_27
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 12110203 | Depth of Water: 0 | Aquifer:
Major Basin: WESTERN GULF | Elevation: 0 | Water Body Id:
Minor Basin: NUECES RIVER | ECO Region:
RF1 Index: 12110203 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: 12110208252000.00 | RF3 Mile Point: 0.00 | Distance from RF3: 0.29 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PITA ISLAND TEXAS-NUECES CO 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE OF THE PADRE ISLAND NATIONAL SEASHORE BOUNDARY. THIS SITE IS AT BEACON LIGHT 27 ON THE INTRACOASTAL WATERWAY. DATA ARE FROM A REPORT BY JIM BOWMAN OF THE TEXAS WATER QUALITY BOARD; "DOMESTIC WASTE IN LAGUNA MADRE FROM HOUSES ON SPOIL ISLAND;" JULY 1972. THE PURPOSE OF THIS REPORT WAS TO INVESTIGATE "THE POLLUTION OF THE LAGUNA MADRE FROM DOMESTIC WASTE COMING FROM A NUMBER OF "SQUATTER" CABINS LOCATED ON SPOIL ISLANDS IN THE LAGUNA MADRE." DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0250

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/07/72-07/07/72	1	12.	12.	12.	12.	0.	0.	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	07/07/72-07/07/72	1	1.079	1.079	1.079	1.079	0.	0.	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			12.								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/07/72-07/07/72	1	2.	2.	2.	2.	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/07/72-07/07/72	1	0.301	0.301	0.301	0.301	0.	0.	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			2.								

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

EPA Water Quality Criteria Analysis for Station: PAIS0250

						----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	1	0	0.00	1	0	0.00									
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: PAIS0251

NPS Station ID: PAIS0251
LAT/LON: 27.597226/ -97.286115
Agency: 21TXDOH
Date Created: 03/24/79
Location: LAGUNA MADRE BAY OFF PITA ISLAND
FIPS State/County: 48355 TEXAS/NUECES
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): LAG00150
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203001
RF1 Mile Point: 6.660
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 12110203014500.00
RF3 Mile Point: 0.00
Distance from RF3: 0.02
On/Off RF3:
Description:
DATA FROM TEXAS STATE DEPARTMENT OF HEALTH FISH AND SHELLFISH SAMPLES ANALYZED FOR TOXICS SAMPLE TAKEN FROM LAGUNA MADRE BAY OFF PITA ISLAND

Parameter Inventory for Station: PAIS0251

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	04/19/78-04/19/78	5	2011.	1779.4	2022.	1421.	106762.3	326.745	**	**	**	**
00024	SAMPLE LENGTH IN INCHES	04/19/78-04/19/78	5	20.	19.4	23.	17.	6.3	2.51	**	**	**	**
71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	04/19/78-04/19/78	5	0.16	0.19	0.3	0.13	0.005	0.071	**	**	**	**
81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	04/19/78-04/19/78	5	1.	1.	1.	1.	0.	0.	**	**	**	**

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

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

Station Inventory for Station: PAIS0252

NPS Station ID: PAIS0252 LAT/LON: 27.599115/ -97.228753 Agency: 11NPSWRD Date Created: 04/17/99
Location: RESIDENCE CANAL SOUTH OF UTILITY ROAD FIPS State/County: 48355 TEXAS/NUECES
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): PAIS_CEM_05
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110203 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110203 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE CRANE ISLANDS SW; TEXAS 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARIES. THIS SITE IS AT A RESIDENCE CANAL JUST SOUTH OF THE UTILITY ROAD IN THE PADRE ISLES HOUSING DEVELOPMENT ON THE NORTH END OF NORTH PADRE ISLAND. DATA ARE FROM A REPORT BY COASTAL ECOSYSTEMS MANAGEMENT; "CONTINUING ASSESSMENT OF THE EFFECTS OF PADRE ISLES DEVELOPMENT ON ECOLOGY;" SEPTEMBER 1974. THE PURPOSE OF THIS REPORT WAS TO SURVEY THE GENERAL ENVIRONMENTAL HEALTH OF PADRE ISLES IN ORDER TO ASSESS THE IMPACTS OF DEVELOPMENT. DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0252

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	01/15/73-08/15/74	3	4.	5.9	13.	0.7	40.53	6.366	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/15/73-08/15/74	4	24.25	22.525	30.	11.6	69.769	8.353	**	**	**	**
00090	OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	01/15/73-09/15/73	2	442.5	442.5	625.	260.	66612.5	258.094	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/15/73-08/15/74	5	39000.	44400.	57000.	30000.	145800000.	12074.767	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	01/15/73-08/15/74	4	6.7	6.825	10.	3.9	6.229	2.496	**	**	**	**
00400	PH (STANDARD UNITS)	01/15/73-08/15/74	4	8.05	8.15	8.6	7.9	0.11	0.332	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	01/15/73-08/15/74	4	8.025	8.071	8.6	7.9	0.118	0.344	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/15/73-08/15/74	4	0.009	0.008	0.013	0.003	0.	0.005	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	01/15/73-08/15/74	5	25.3	29.02	38.	18.5	74.907	8.655	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/15/73-08/15/74	5	2.2	2.758	4.9	0.49	2.974	1.725	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	01/15/73-08/15/74	6	0.265	0.432	0.95	0.13	0.137	0.37	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	01/15/73-08/15/74	5	207.	179.2	230.	103.	2711.2	52.069	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	01/15/73-08/15/74	5	1248.	1555.8	2120.	1091.	268504.2	518.174	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	01/15/73-08/15/74	5	14000.	16040.	21000.	10200.	22908000.	4786.23	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	09/15/73-08/15/74	4	1150.	897.75	1200.	91.	291486.917	539.895	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	09/15/73-08/15/74	3	1200.	826.667	1200.	80.	418133.333	646.632	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	09/15/73-08/15/74	3	200.	174.333	200.	123.	1976.333	44.456	**	**	**	**
71875	HYDROGEN SULFIDE (MG/L)	01/15/73-01/15/73	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
82537	TURBIDITY,FORWARD SCATTER JTU	01/15/73-08/15/74	5	25.	23.6	35.	5.	159.8	12.641	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: PAIS0252

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------5/01-10/31---------- Obs	Exceed	Prop.	----------11/01-4/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	4	1	0.25	2	1	0.50	2	0	0.00						
00400	PH	Marine Chronic	8.5	4	1	0.25	2	0	0.00	2	1	0.50						
		Other-Lo Lim.	6.5	4	0	0.00	2	0	0.00	2	0	0.00						
01042	COPPER, TOTAL	Marine Acute	2.9	4	4	1.00	3	3	1.00	1	1	1.00						
01092	ZINC, TOTAL	Marine Acute	95.	3	3	1.00	3	3	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: PAIS0253

NPS Station ID: PAIS0253
LAT/LON: 27.599365/ -97.253727
Agency: 11NPSWRD
Date Created: 04/17/99
Location: AT CORNER OF UTILITY COMPLEX ISLAND
FIPS State/County: 48355 TEXAS/NUECES
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_CEM_14
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PITA ISLAND TEXAS 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARIES. THIS SITE IS AT A CANAL AT THE CORNER OF THE UTILITY COMPLEX ISLAND IN THE PADRE ISLES HOUSING DEVELOPMENT ON THE NORTH END OF NORTH PADRE ISLAND. DATA ARE FROM A REPORT BY COASTAL ECOSYSTEMS MANAGEMENT; "CONTINUING ASSESSMENT OF THE EFFECTS OF PADRE ISLES DEVELOPMENT ON ECOLOGY;" SEPTEMBER 1974. THE PURPOSE OF THIS REPORT WAS TO SURVEY THE GENERAL ENVIRONMENTAL HEALTH OF PADRE ISLES IN ORDER TO ASSESS THE IMPACTS OF DEVELOPMENT. DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0253

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	01/15/73-08/15/74	4	12.	11.75	14.	9.	4.25	2.062	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/15/73-08/15/74	7	20.	21.414	32.	10.4	74.735	8.645	**	**	**	**
00090	OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	01/15/73-09/15/73	3	430.	343.333	450.	150.	28133.333	167.73	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/15/73-08/15/74	7	40000.	39571.429	43500.	34000.	16535714.286	4066.413	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	01/15/73-08/15/74	7	6.2	6.2	8.4	3.1	3.147	1.774	**	**	**	**
00400	PH (STANDARD UNITS)	01/15/73-08/15/74	7	8.	8.071	8.5	7.8	0.092	0.304	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	01/15/73-08/15/74	7	8.	7.996	8.5	7.8	0.099	0.315	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/15/73-08/15/74	7	0.01	0.01	0.016	0.003	0.	0.005	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	01/15/73-08/15/74	7	26.	25.1	28.5	20.2	12.547	3.542	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/15/73-08/15/74	8	3.54	3.2	5.28	0.25	3.714	1.927	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	01/15/73-08/15/74	8	0.165	0.201	0.39	0.06	0.017	0.13	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	01/15/73-08/15/74	8	159.5	166.25	242.	98.	2909.929	53.944	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	01/15/73-08/15/74	8	1296.	1395.875	1800.	1107.	75194.982	274.217	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	01/15/73-08/15/74	7	14400.	14000.	15700.	11700.	2860000.	1691.153	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	09/15/73-08/15/74	6	850.	698.667	1200.	91.	237934.267	487.785	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	09/15/73-08/15/74	4	273.	296.	600.	38.	87698.667	296.14	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	09/15/73-08/15/74	4	173.5	175.25	230.	124.	2764.917	52.582	**	**	**	**
71875	HYDROGEN SULFIDE (MG/L)	01/15/73-01/15/73	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
82537	TURBIDITY,FORWARD SCATTER JTU	01/15/73-08/15/74	5	8.	8.6	20.	2.	46.8	6.841	**	**	**	**

** - 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 time series plot

EPA Water Quality Criteria Analysis for Station: PAIS0253

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	5/01-10/31 Obs	5/01-10/31 Exceed	5/01-10/31 Prop.	11/01-4/30 Obs	11/01-4/30 Exceed	11/01-4/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	7	1	0.14	3	1	0.33	4	0	0.00						
00400	PH	Marine Chronic	8.5	7	2	0.29	3	0	0.00	4	2	0.50						
		Other-Lo Lim.	6.5	7	0	0.00	3	0	0.00	4	0	0.00						
01042	COPPER, TOTAL	Marine Acute	2.9	6	6	1.00	4	4	1.00	2	2	1.00						
01092	ZINC, TOTAL	Marine Acute	95.	4	4	1.00	4	4	1.00									

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

Station Inventory for Station: PAIS0254

NPS Station ID: PAIS0254 LAT/LON: 27.600004/ -97.240003 Agency: 21TEXWR Date Created: 12/15/79
Location: LAGUNA MADRE CSTL WATERWAY + PADRE ISLE CAUSEWAY FIPS State/County: 48993 TEXAS/
Station Type: /TYPA/AMBNT/OCEAN STORET Station ID(s): 24910050
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110203 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: RIO GRANDE LOWER BELOW PECOS RIVER ECO Region:
RF1 Index: 12110203003 RF1 Mile Point: 32.960 Distance from RF1: 1.70 On/Off RF1: OFF
RF3 Index: 12110208001300.45 RF3 Mile Point: 0.45 Distance from RF3: 0.06 On/Off RF3:
Description:

Parameter Inventory for Station: PAIS0254

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	01/06/76-04/06/77	2	14.5	14.5	19.	10.	40.5	6.364	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/07/75-06/06/78	6	26.5	23.333	29.5	14.	49.167	7.012	**	**	**	**
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	07/07/75-06/06/78	4	83.75	82.4	85.1	77.	13.5	3.674	**	**	**	**
00070	TURBIDITY, (JACKSON CANDLE UNITS)	10/07/76-10/07/76	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	01/06/76-03/09/78	5	46200.	46810.	59000.	31900.	97918000.	9895.352	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/06/75-07/06/77	9	55000.	55955.556	69200.	42000.	88947777.778	9431.213	42000.	49000.	64700.	69200.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/16/75-06/06/78	14	6.6	7.429	10.1	4.9	3.347	1.829	5.05	6.1	9.3	10.05
00400	PH (STANDARD UNITS)	10/27/75-03/09/78	5	8.3	8.32	8.55	8.	0.048	0.22	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/27/75-03/09/78	5	8.3	8.274	8.55	8.	0.051	0.226	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/27/75-03/09/78	5	0.005	0.005	0.01	0.003	0.	0.003	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	04/06/77-03/09/78	2	2.	2.	2.	2.	0.	0.	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	04/06/77-03/09/78	2	0.301	0.301	0.301	0.301	0.	0.	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			2.								
32222	CHLOROPHYLL A IN BOTTOM DEPOSITS (UG/KG DRY WGT)	10/07/76-06/06/78	8 ##	0.004	0.004	0.006	0.003	0.	0.002	**	**	**	**
70295	RESIDUE,TOTAL FILTRABLE (DRIED AT ANY TEMP),MG/L	01/06/75-06/06/78	30	25750.	24972.5	30000.	15750.	19575618.534	4424.434	16450.	22000.	29062.5	30000.
70505	PHOSPHATE,TOTAL,COLORIMETRIC METHOD (MG/L AS P)	07/07/75-07/07/75	1	0.06	0.06	0.06	0.06	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: PAIS0254

				Total	Exceed	Prop.	----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	1	0	0.00	1	0	0.00									
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	14	0	0.00	9	0	0.00	5	0	0.00						
00400	PH	Marine Chronic	8.5	5	2	0.40	3	2	0.67	2	0	0.00						
		Other-Lo Lim.	6.5	5	0	0.00	3	0	0.00	2	0	0.00						
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	2	0	0.00				2	0	0.00						

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

Station Inventory for Station: PAIS0255

NPS Station ID: PAIS0255
LAT/LON: 27.600004/ -97.240003
Agency: 21TXWQB
Date Created: 06/28/97
Location: LAGUNA MADRE ICWW/PADRE I.CSWY
FIPS State/County: 48273 TEXAS/KLEBERG
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): 13443
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110202
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin: Bays and Estuaries
ECO Region: 34M
RF1 Index: 12110202
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
LAGUNA MADRE SOUTH OF THE INTERSECTION OF ICWW AND PADRE ISLAND CAUSEWA

Parameter Inventory for Station: PAIS0255

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	01/06/75-07/16/96	282	10.	9.961	30.	1.	68.913	8.301	1.	1.	15.	20.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/06/75-07/16/96	166	23.9	23.123	32.	8.	36.026	6.002	14.64	18.275	29.	30.23
00011p	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/06/75-11/14/85	78	76.55	74.219	88.7	46.4	117.898	10.858	58.01	66.1	84.2	86.
00061	FLOW, STREAM, INSTANTANEOUS CFS	02/12/90-02/12/90	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/06/75-12/05/77	7	11.	12.857	30.	0.	99.143	9.957	**	**	**	**
00077	TRANSPARENCY, SECCHI DISC (INCHES)	01/11/77-04/17/89	36	39.5	41.833	72.	20.	132.257	11.5	29.1	34.	48.	60.
00078	TRANSPARENCY, SECCHI DISC (METERS)	02/12/90-07/16/96	26	0.69	0.762	1.8	0.1	0.213	0.461	0.294	0.4	1.	1.73
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	01/06/75-07/16/96	196	51000.	51065.816	81000.	31500.	64078261.381	8004.89	41910.	46100.	55675.	60000.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/09/78-02/02/88	34	46500.	49375.088	89320.	35920.	106554522.931	10322.525	41200.	43035.	52385.5	65546.
00300p	OXYGEN, DISSOLVED MG/L	01/06/75-07/16/96	177	7.3	7.26	11.7	3.3	2.919	1.709	5.08	6.15	8.4	9.6
00400p	PH (STANDARD UNITS)	01/06/75-07/16/96	168	8.3	8.291	9.	7.35	0.078	0.28	7.978	8.1	8.5	8.6
00400p	CONVERTED PH (STANDARD UNITS)	01/06/75-07/16/96	168	8.3	8.189	9.	7.35	0.089	0.298	7.978	8.1	8.5	8.6
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/06/75-07/16/96	168	0.005	0.006	0.045	0.001	0.	0.006	0.003	0.003	0.008	0.011
00403	PH, LAB, STANDARD UNITS SU	01/06/75-02/02/88	46	8.3	8.276	8.7	7.1	0.069	0.263	8.	8.2	8.4	8.63
00403	CONVERTED PH, LAB, STANDARD UNITS	01/06/75-02/02/88	46	8.3	8.15	8.7	7.1	0.086	0.293	8.	8.2	8.4	8.63
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/06/75-02/02/88	46	0.005	0.007	0.079	0.002	0.	0.011	0.002	0.004	0.006	0.01
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	10/07/76-07/16/96	79	139.	138.57	197.	86.	375.325	19.373	115.	123.	150.	165.
00440	BICARBONATE ION (MG/L AS HCO3)	08/03/83-08/03/83	1	96.	96.	96.	96.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	08/03/83-08/03/83	1	24.	24.	24.	24.	0.	0.	**	**	**	**
00480p	SALINITY - PARTS PER THOUSAND	11/14/85-07/16/96	61	34.3	33.618	50.2	22.5	37.24	6.102	24.78	29.4	37.35	40.54
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/06/75-07/16/96	84	26.	33.194	134.	0.3	723.556	26.899	9.	15.	38.75	66.
00535p	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	01/06/75-07/16/96	84	8.5	10.702	38.	1.	70.519	8.398	3.5	5.	13.	26.
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	01/06/75-07/16/96	82	0.03	0.059	0.3	0.005	0.004	0.067	0.01	0.02	0.07	0.161
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/07/76-06/08/94	46 ##	0.015	0.015	0.04	0.005	0.	0.008	0.005	0.01	0.015	0.03
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/07/75-04/21/94	70 ##	0.015	0.034	0.24	0.005	0.002	0.05	0.005	0.005	0.03	0.09
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	01/14/93-07/16/96	15	0.95	1.086	2.06	0.33	0.28	0.529	0.438	0.6	1.48	2.012
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/26/76-07/16/96	10	0.01	0.014	0.05	0.	0.	0.014	0.001	0.005	0.02	0.047
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	01/06/75-11/14/85	40	0.095	0.135	0.58	0.	0.013	0.114	0.021	0.09	0.173	0.307
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	01/06/75-11/14/85	39 ##	0.015	0.038	0.28	0.015	0.003	0.056	0.015	0.015	0.03	0.09
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	01/06/75-07/16/96	83	0.05	0.055	0.19	0.005	0.001	0.033	0.024	0.03	0.07	0.1
00671p	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	01/06/75-07/16/96	81	0.02	0.025	0.1	0.005	0.001	0.023	0.005	0.005	0.035	0.06
00680p	CARBON, TOTAL ORGANIC (MG/L AS C)	04/26/76-07/16/96	77	5.	5.383	21.	0.5	21.493	4.636	0.5	0.5	8.	10.2
00916	CALCIUM, TOTAL (MG/L AS CA)	08/03/83-08/03/83	1	430.	430.	430.	430.	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	08/03/83-08/03/83	1	1200.	1200.	1200.	1200.	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	08/03/83-08/03/83	1	9400.	9400.	9400.	9400.	0.	0.	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	01/06/75-07/16/96	84	18500.	18203.81	28300.	257.	14349252.879	3788.041	13800.	16288.	20325.	22775.5

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

Parameter Inventory for Station: PAIS0255

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00941	CHLORIDE, DISSOLVED IN WATER MG/L	01/06/75-10/27/75	3	17150.	19016.667	23500.	16400.	15215833.333	3900.748	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	01/06/75-07/16/96	83	2630.	2617.313	4130.	32.	415984.071	644.968	1908.	2300.	2900.	3500.
01002	ARSENIC, TOTAL (UG/L AS AS)	08/03/83-08/03/83	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	08/03/83-08/03/83	1	110.	110.	110.	110.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	08/03/83-08/03/83	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	08/03/83-08/03/83	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	08/03/83-08/03/83	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	08/03/83-08/03/83	1	210.	210.	210.	210.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	08/03/83-08/03/83	1	140.	140.	140.	140.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	08/03/83-08/03/83	1	25.	25.	25.	25.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	08/03/83-08/03/83	1 ##	15.	15.	15.	15.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	08/03/83-08/03/83	1	18.	18.	18.	18.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	08/03/83-08/03/83	1	10.	10.	10.	10.	0.	0.	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	01/06/75-05/01/85	29 ##	5.	350.121	10000.	0.	3444525.44	1855.943	0.	0.5	5.	20.
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	01/06/75-05/01/85	29 ##	0.699	0.67	4.	-0.301	0.625	0.791	0.	-0.301	0.699	1.301
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			4.674								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	03/13/84-07/16/96	31 ##	1.5	38.919	1080.	1.	37367.068	193.306	1.	1.5	4.	13.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	03/13/84-07/16/96	31 ##	0.176	0.488	3.033	0.	0.37	0.608	0.	0.176	0.602	1.114
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			3.079								
32211p	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	01/06/75-07/16/96	78	4.	7.9	46.9	0.5	96.085	9.802	1.59	2.5	9.25	23.7
32218p	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	10/07/76-07/16/96	74 ##	2.5	2.653	22.2	0.	12.373	3.518	0.	0.5	2.5	5.
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/07/77-07/16/96	16	37800.	39920.688	60600.	31600.	62513767.563	7906.565	31670.	34057.75	42725.	54090.
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/07/75-07/07/75	1	0.06	0.06	0.06	0.06	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	08/03/83-08/03/83	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
72053	DAYS SINCE PRECIPITATION EVENT DAYS	10/12/89-07/16/96	25	5.	3.38	5.	1.	3.277	1.81	1.	1.	5.	5.

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

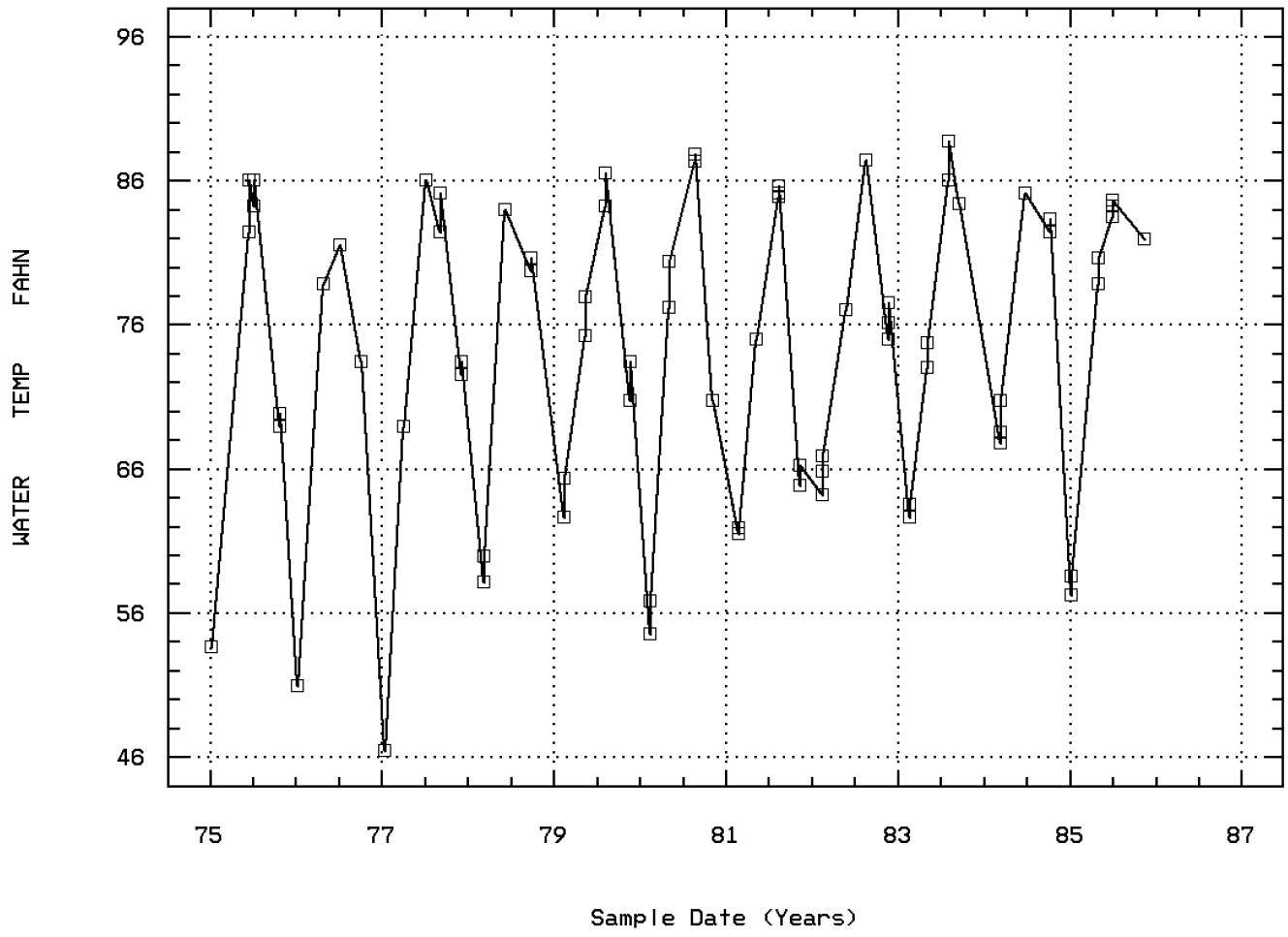
EPA Water Quality Criteria Analysis for Station: PAIS0255

				Total	Exceed	Prop.	----------5/01-10/31----------			----------11/01-4/30----------			----------n/a----------			----------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.	7	0	0.00	4	0	0.00	3	0	0.00						
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	177	4	0.02	83	4	0.05	94	0	0.00						
00400	PH	Marine Chronic	8.5	168	50	0.30	81	37	0.46	87	13	0.15						
		Other-Lo Lim.	6.5	168	0	0.00	81	0	0.00	87	0	0.00						
00403	PH, LAB	Marine Chronic	8.5	46	10	0.22	24	6	0.25	22	4	0.18						
		Other-Lo Lim.	6.5	46	0	0.00	24	0	0.00	22	0	0.00						
01002	ARSENIC, TOTAL	Marine Acute	69.	1	0	0.00	1	0	0.00									
01027	CADMIUM, TOTAL	Marine Acute	43.	1	0	0.00	1	0	0.00									
01042	COPPER, TOTAL	Marine Acute	2.9	0 &	0	0.00												
01051	LEAD, TOTAL	Marine Acute	220.	1	0	0.00	1	0	0.00									
01067	NICKEL, TOTAL	Marine Acute	75.	1	0	0.00	1	0	0.00									
01077	SILVER, TOTAL	Marine Acute	0.12	1	1	1.00	1	1	1.00									
01092	ZINC, TOTAL	Marine Acute	95.	1	0	0.00	1	0	0.00									
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	29	1	0.03	15	1	0.07	14	0	0.00						
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	31	1	0.03	13	1	0.08	18	0	0.00						
71900	MERCURY, TOTAL	Marine Acute	2.1	1	0	0.00	1	0	0.00									

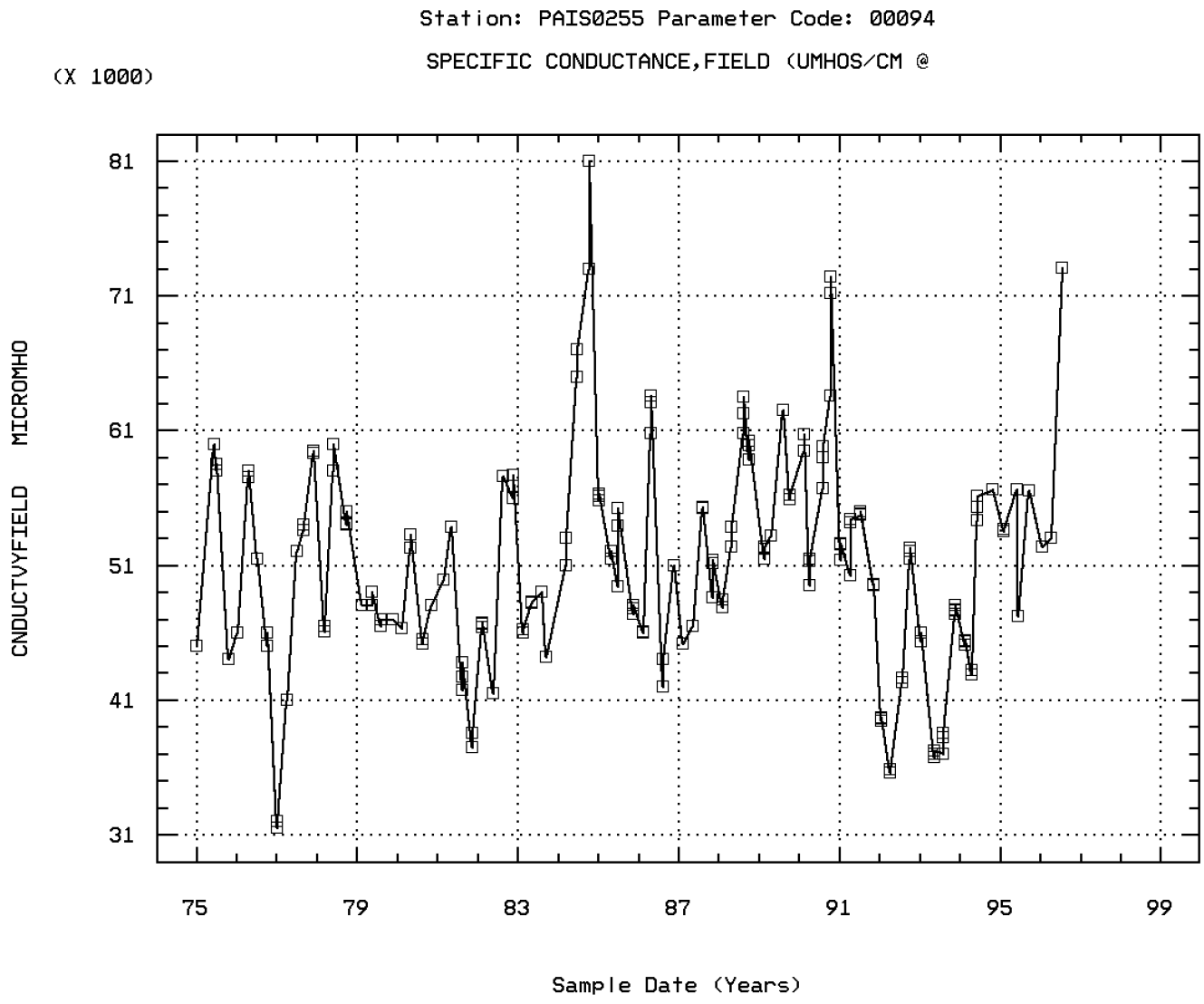
& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station: PAIS0255 Parameter Code: 00011

TEMPERATURE, WATER (DEGREES FAHRENHEIT)



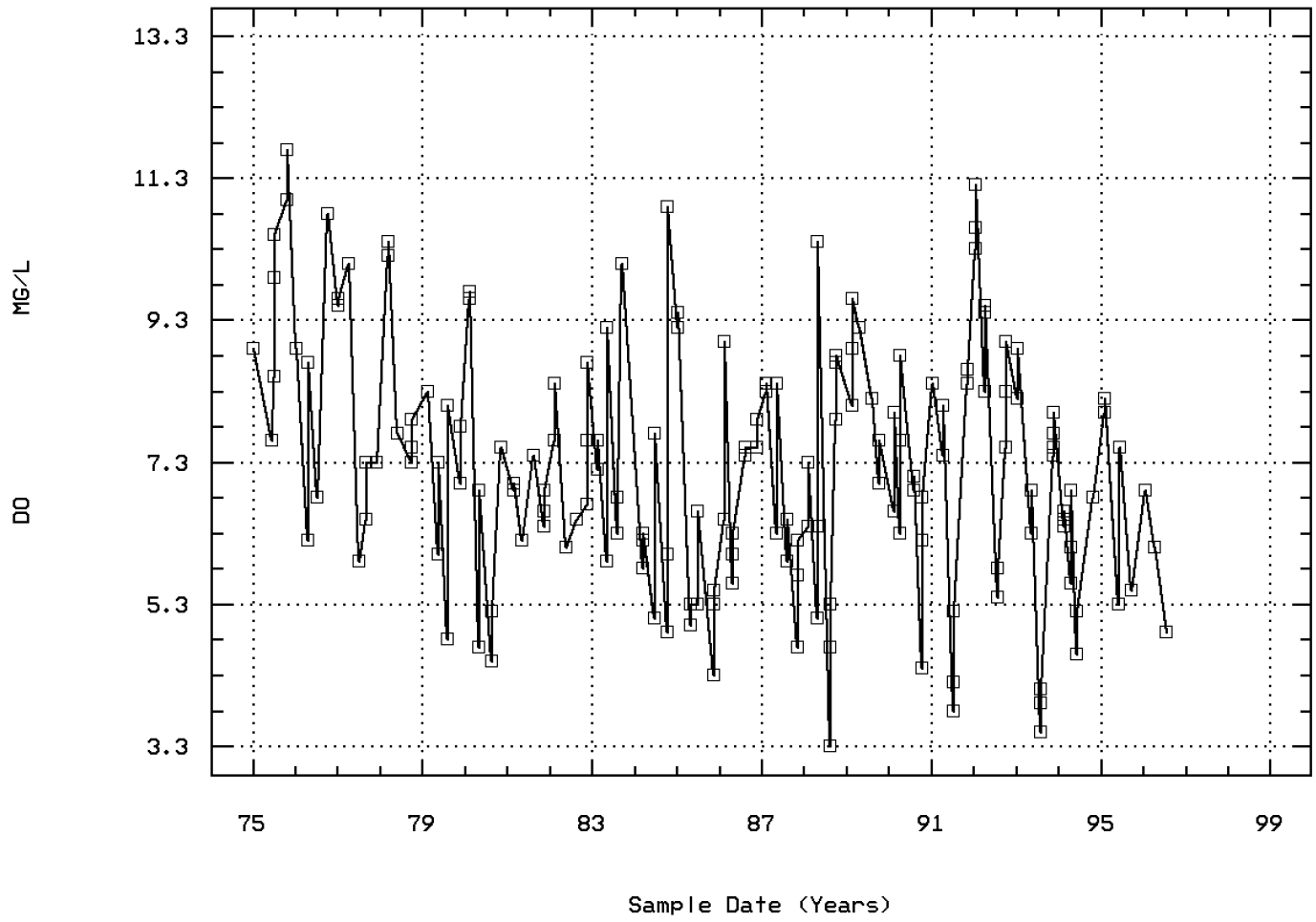
LAGUNA MADRE ICWW/PADRE I.CSWY



LAGUNA MADRE ICWW/PADRE I.CSWY

Station: PAIS0255 Parameter Code: 00300

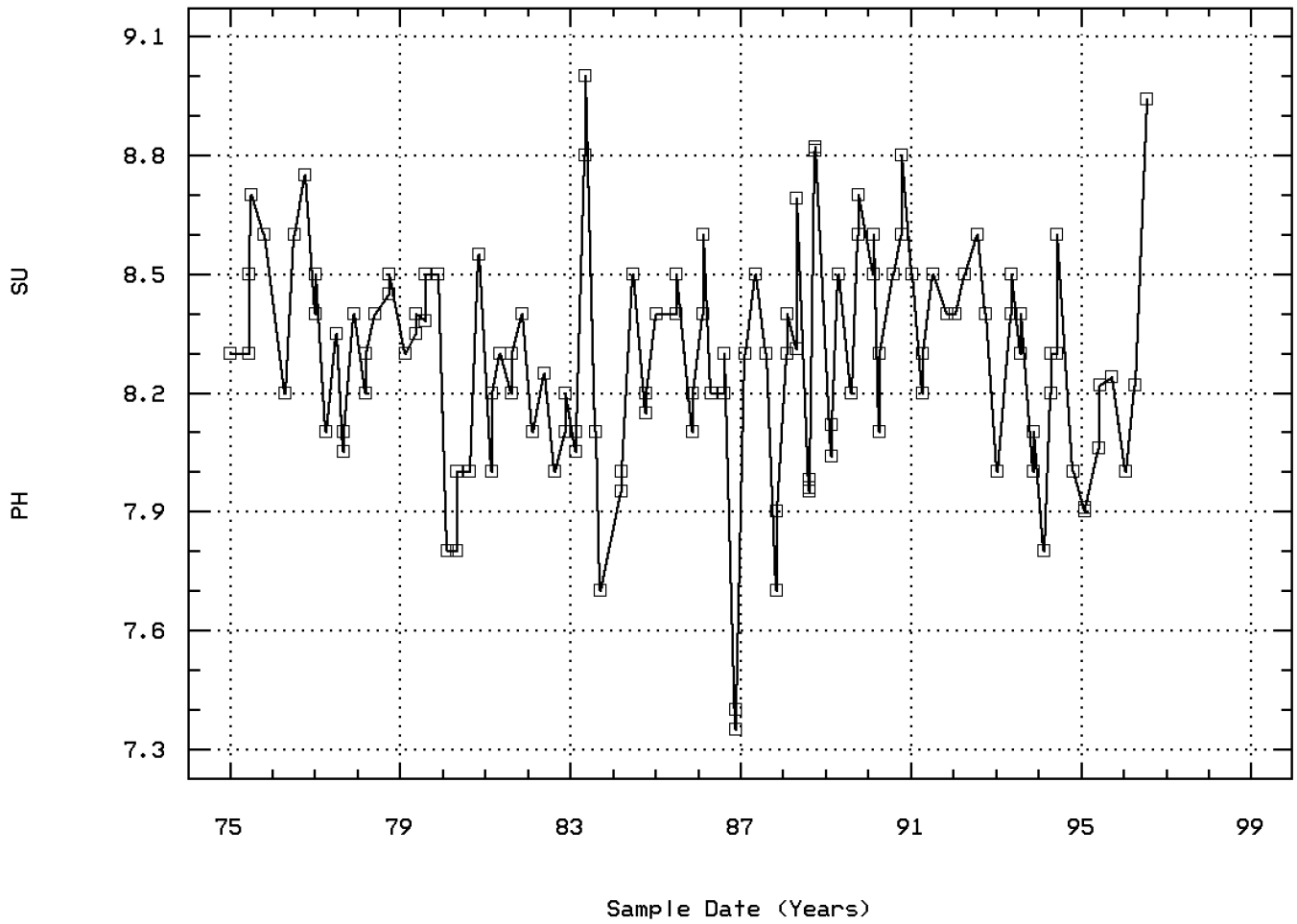
OXYGEN, DISSOLVED



LAGUNA MADRE ICWW/PADRE I.CSWY

Station: PAIS0255 Parameter Code: 00400

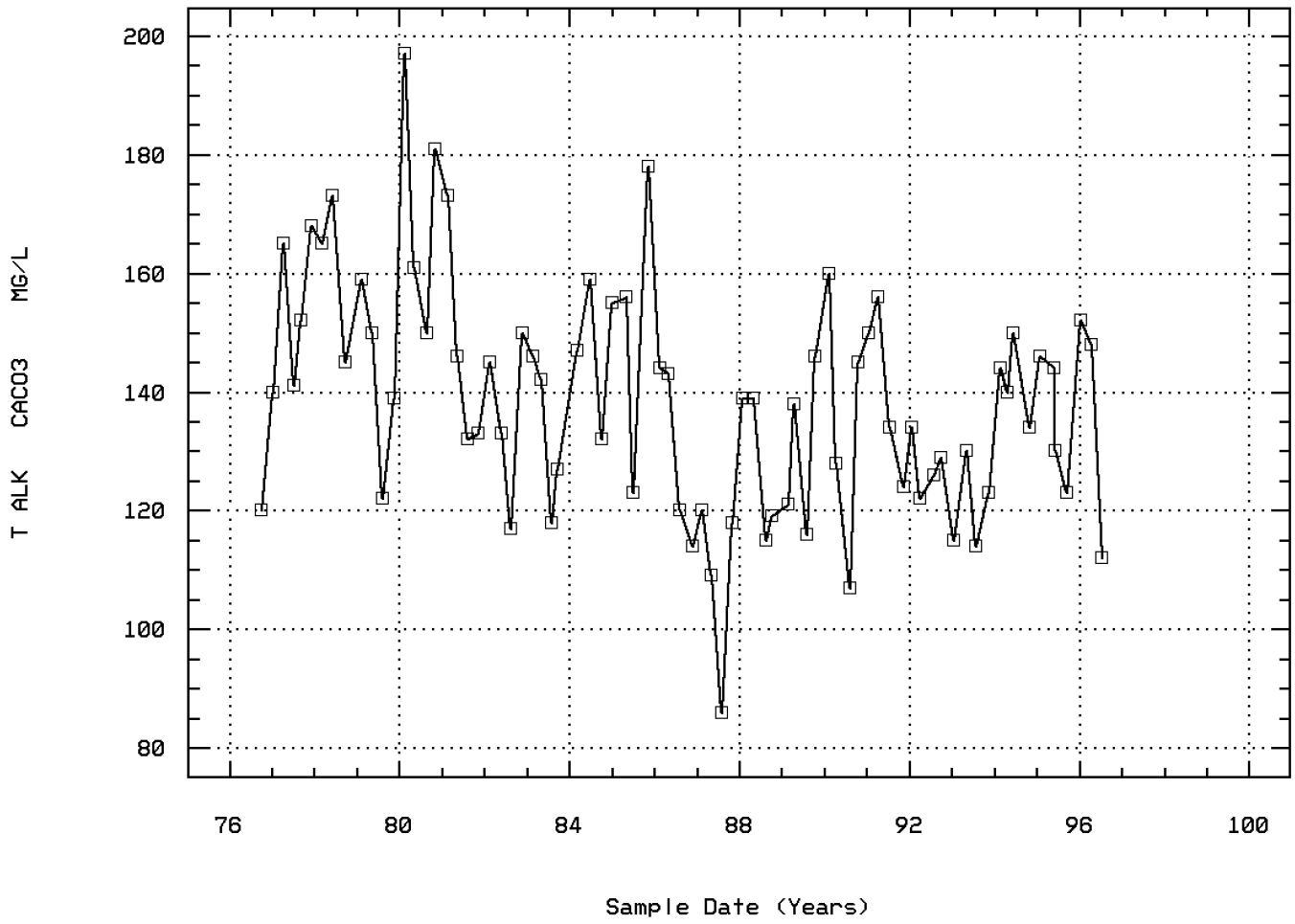
PH (STANDARD UNITS)



LAGUNA MADRE ICWW/PADRE I.CSWY

Station: PAIS0255 Parameter Code: 00410

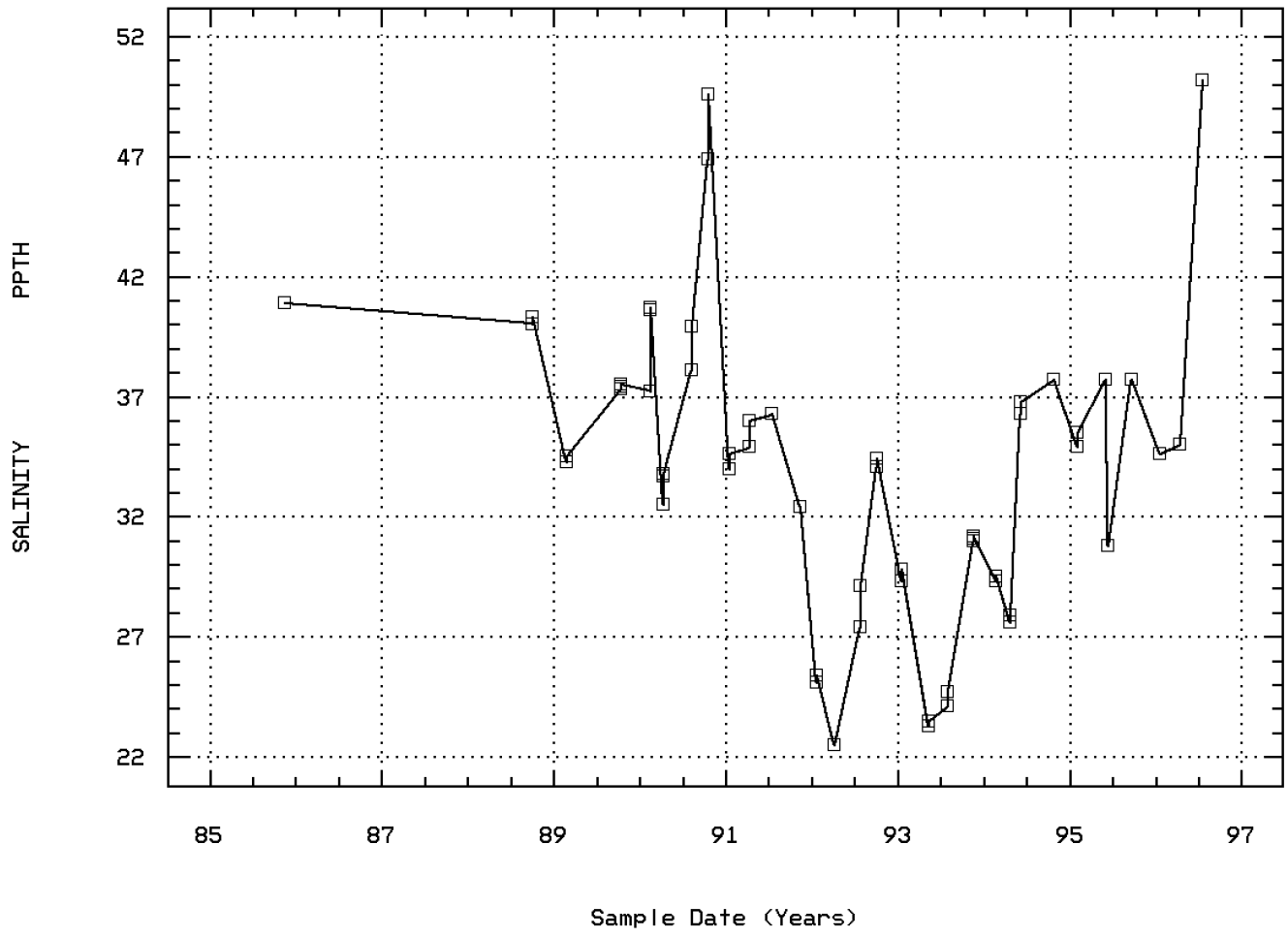
ALKALINITY, TOTAL (MG/L AS CACO3)



LAGUNA MADRE ICWW/PADRE I.CSWY

Station: PAIS0255 Parameter Code: 00480

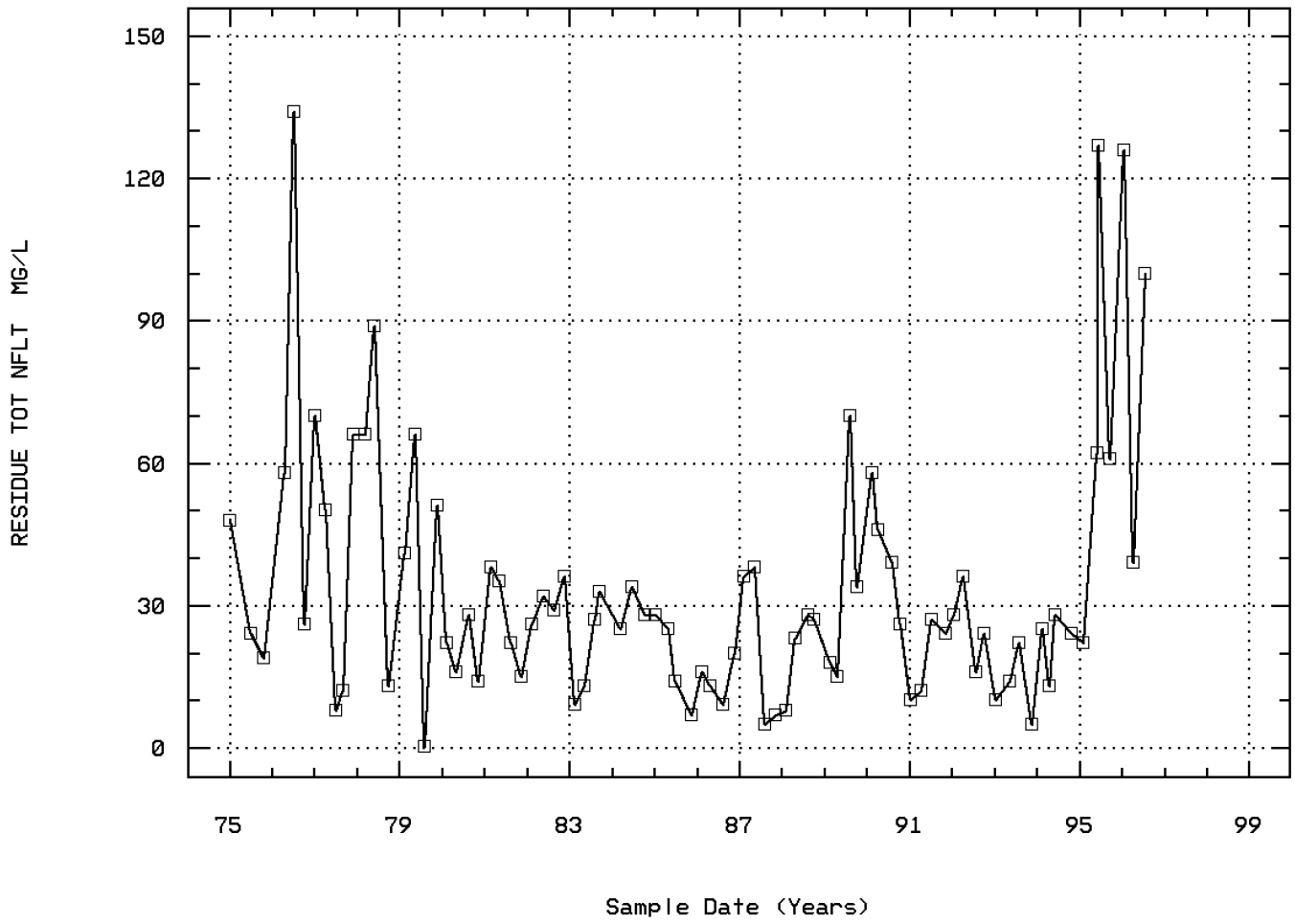
SALINITY - PARTS PER THOUSAND



LAGUNA MADRE ICWW/PADRE I.CSWY

Station: PAIS0255 Parameter Code: 00530

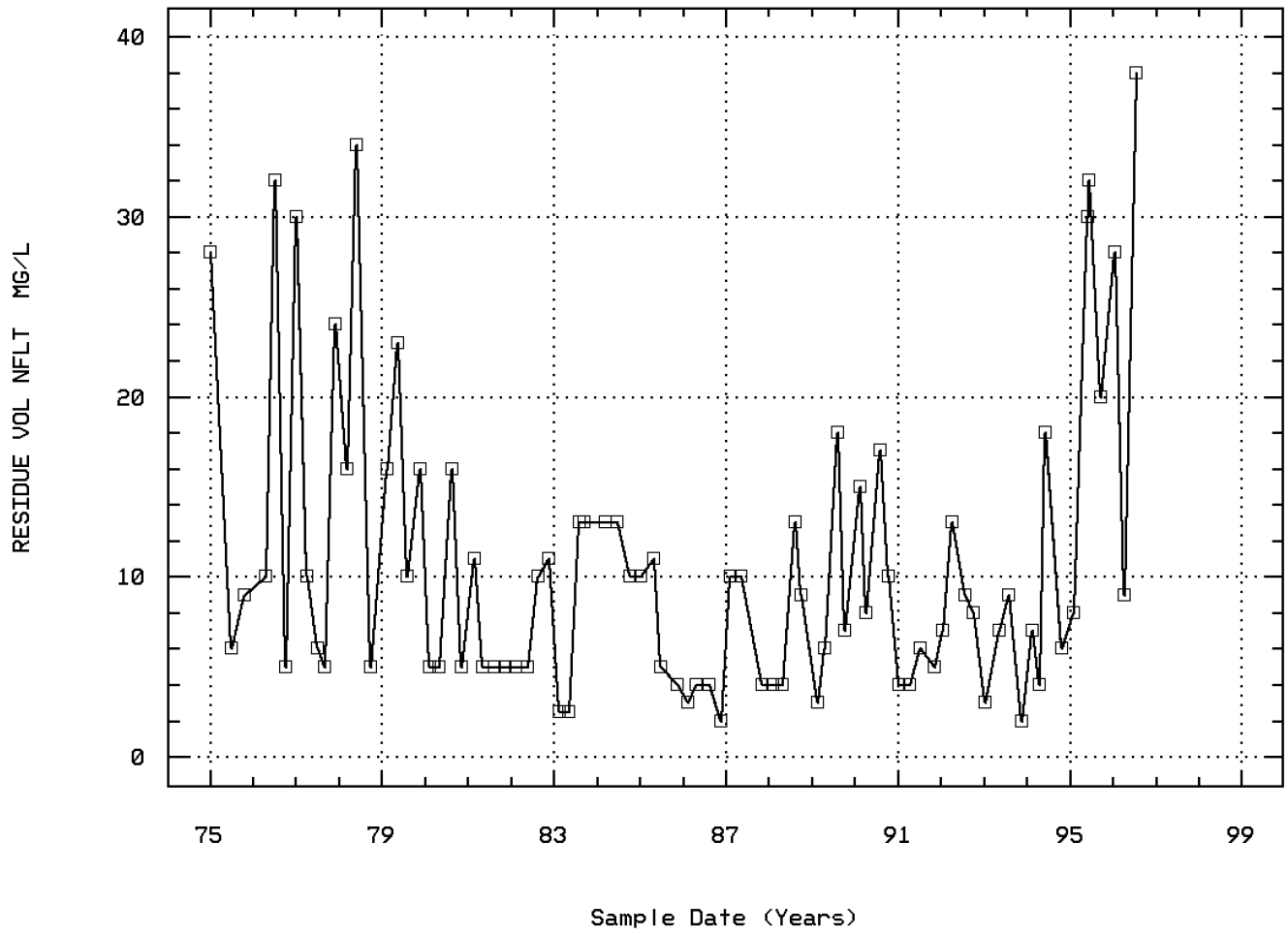
RESIDUE, TOTAL NONFILTRABLE (MG/L)



LAGUNA MADRE ICWW/PADRE I.CSWY

Station: PAIS0255 Parameter Code: 00535

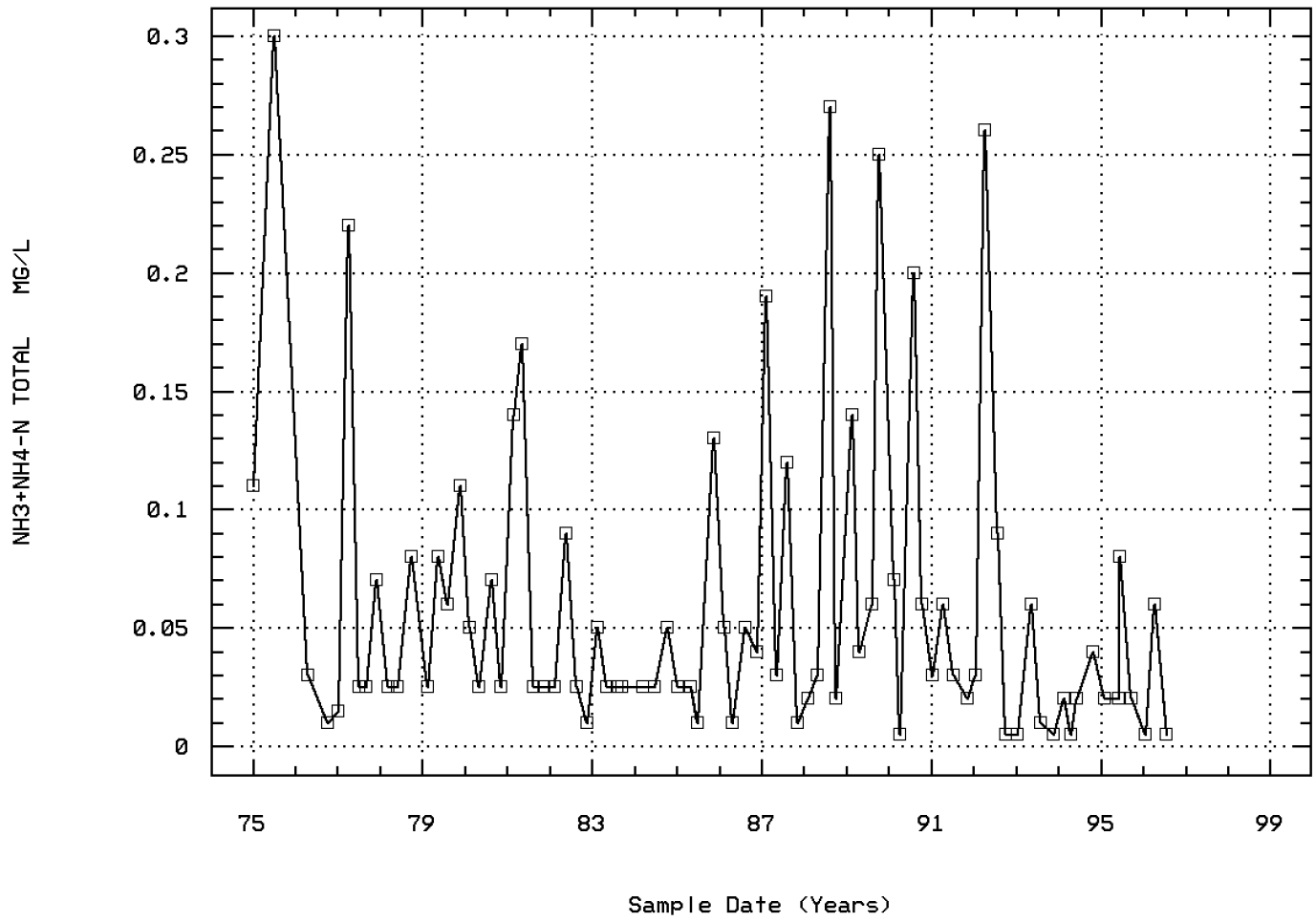
RESIDUE, VOLATILE NONFILTRABLE (MG/L)



LAGUNA MADRE ICWW/PADRE I.CSWY

Station: PAIS0255 Parameter Code: 00610

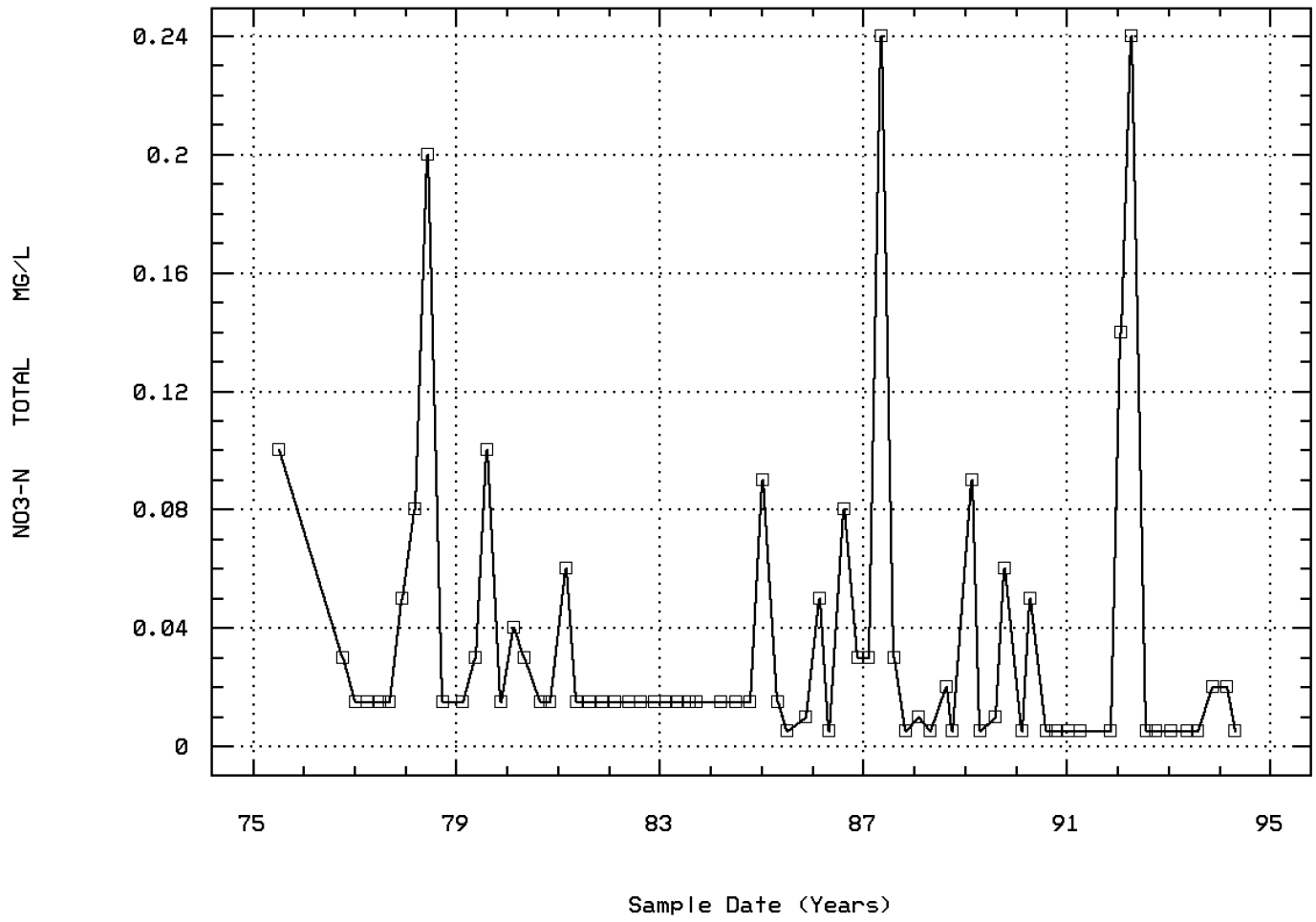
NITROGEN, AMMONIA, TOTAL (MG/L AS N)



LAGUNA MADRE ICWW/PADRE I.CSWY

Station: PAIS0255 Parameter Code: 00620

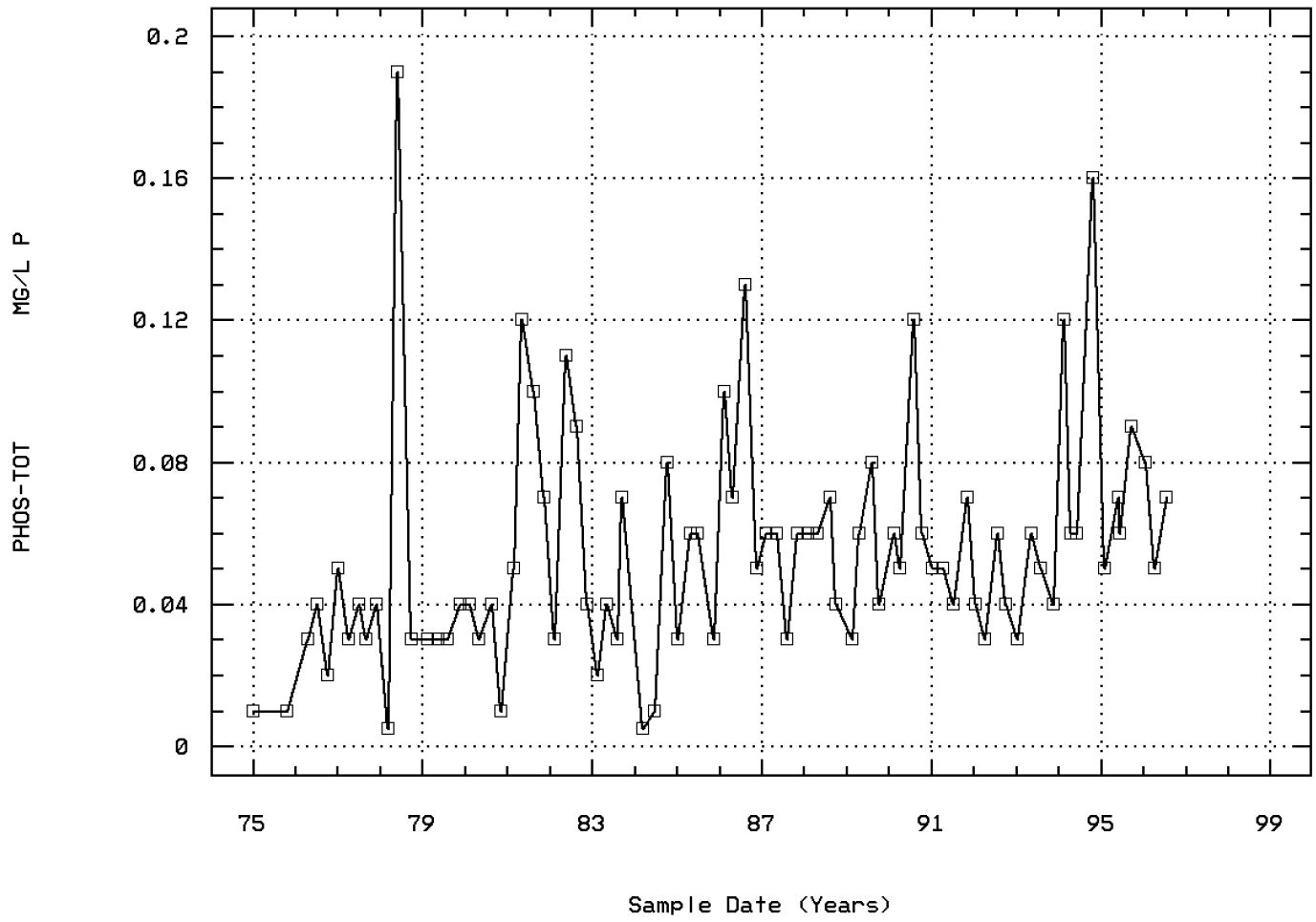
NITRATE NITROGEN, TOTAL (MG/L AS N)



LAGUNA MADRE ICWW/PADRE I.CSWY

Station: PAIS0255 Parameter Code: 00665

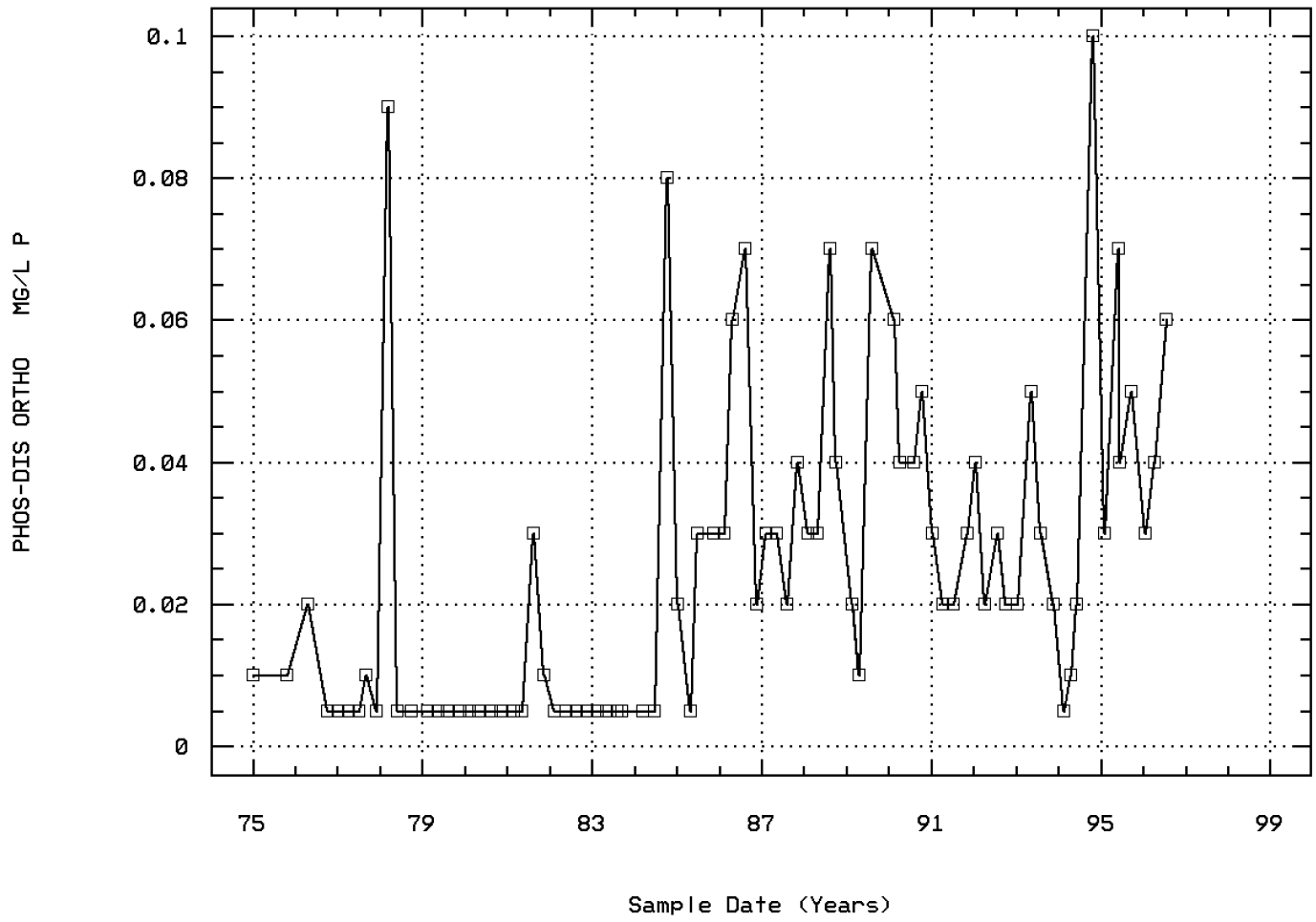
PHOSPHORUS, TOTAL (MG/L AS P)



LAGUNA MADRE ICWW/PADRE I.CSWY

Station: PAIS0255 Parameter Code: 00671

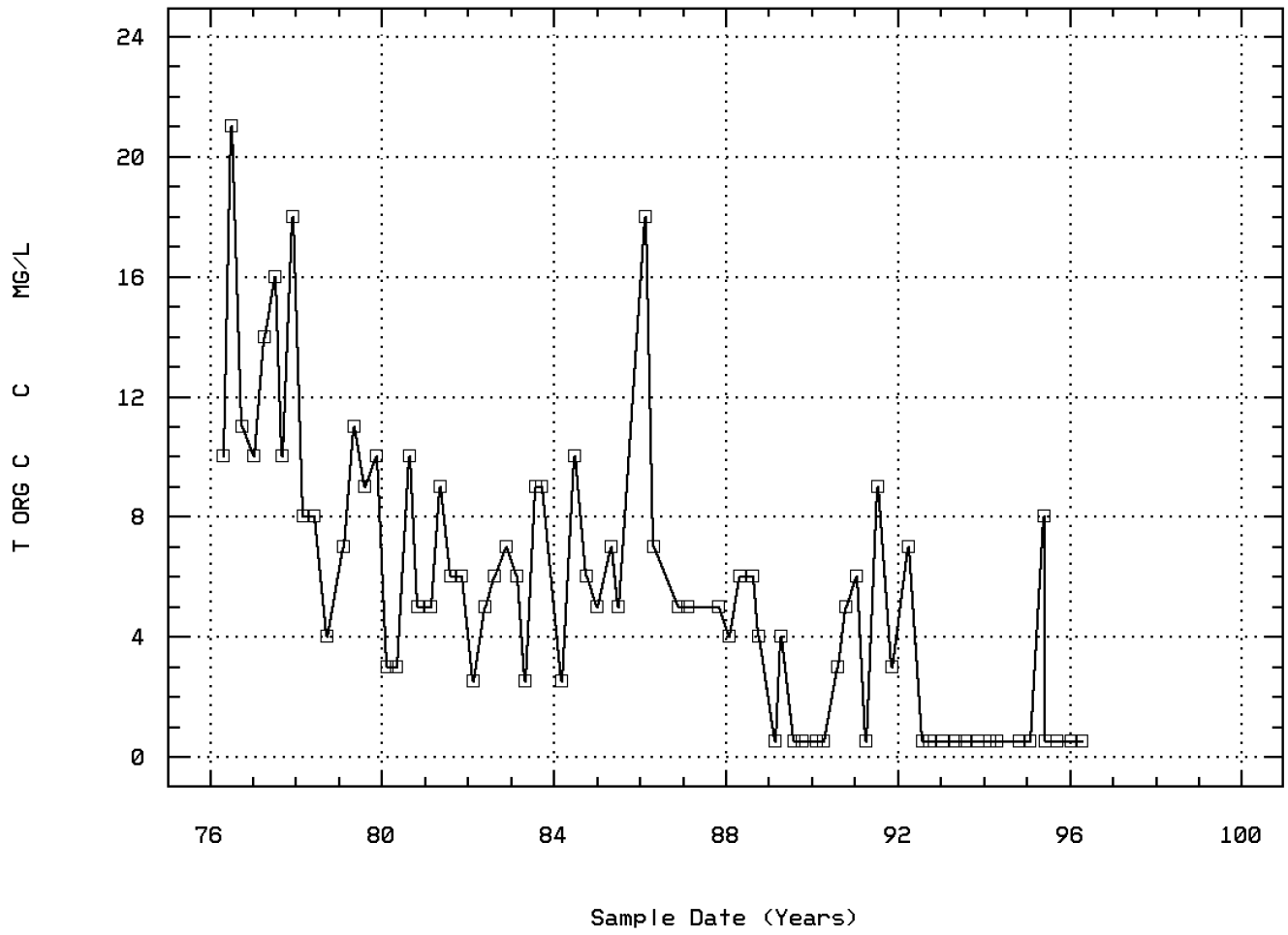
PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (M



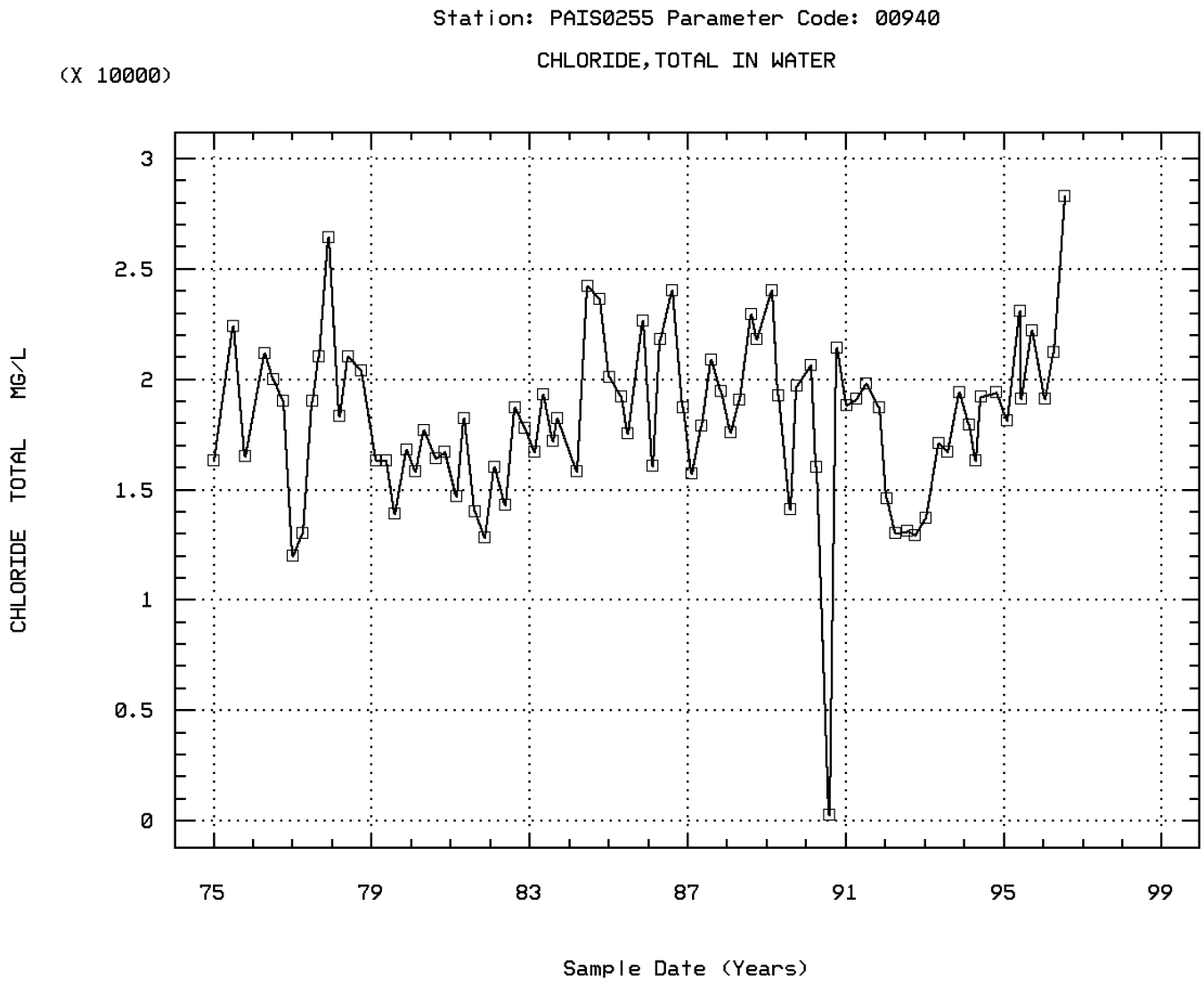
LAGUNA MADRE ICWW/PADRE I.CSWY

Station: PAIS0255 Parameter Code: 00680

CARBON, TOTAL ORGANIC (MG/L AS C)



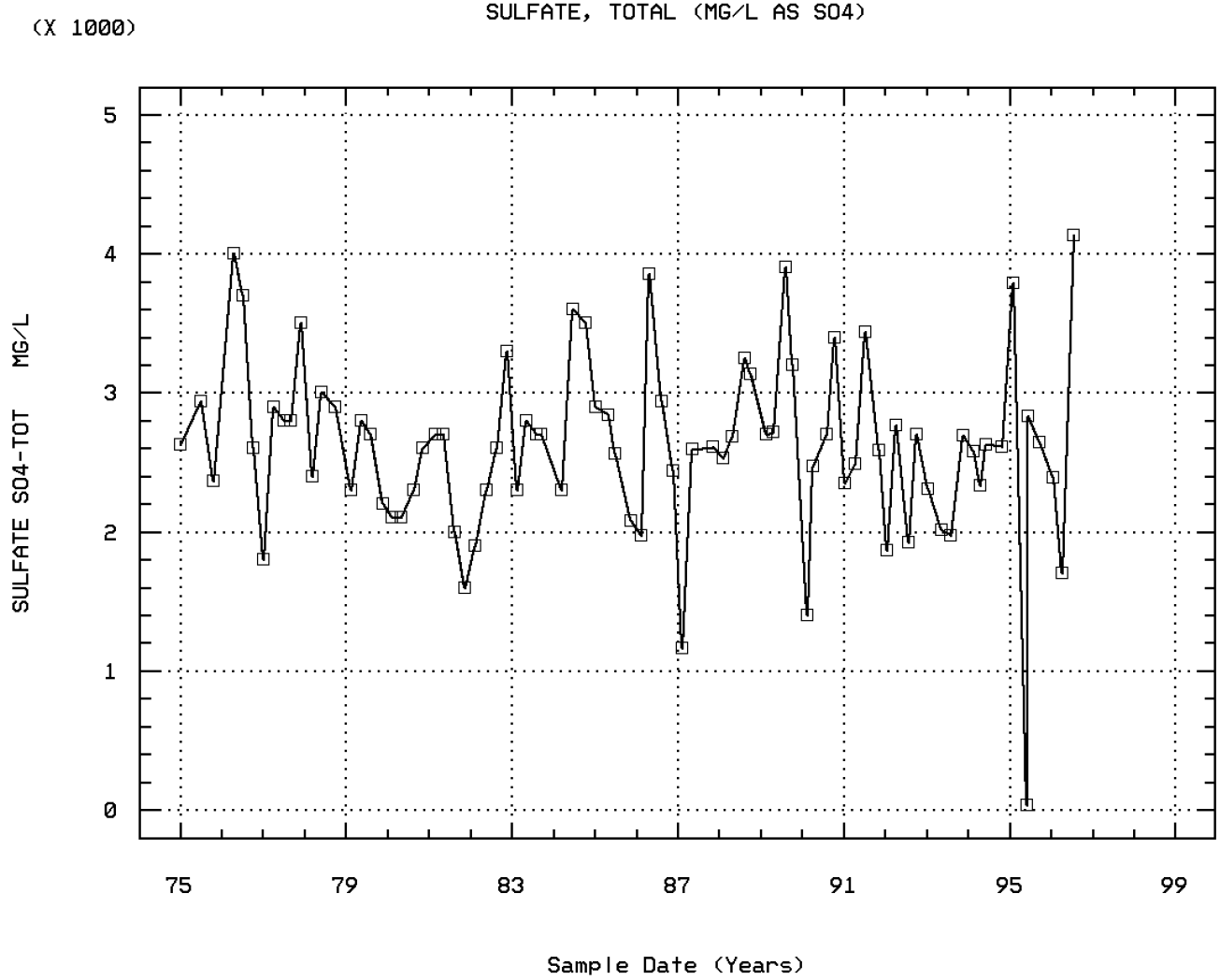
LAGUNA MADRE ICWW/PADRE I.CSWY



LAGUNA MADRE ICWW/PADRE I.CSWY

Station: PAIS0255 Parameter Code: 00945

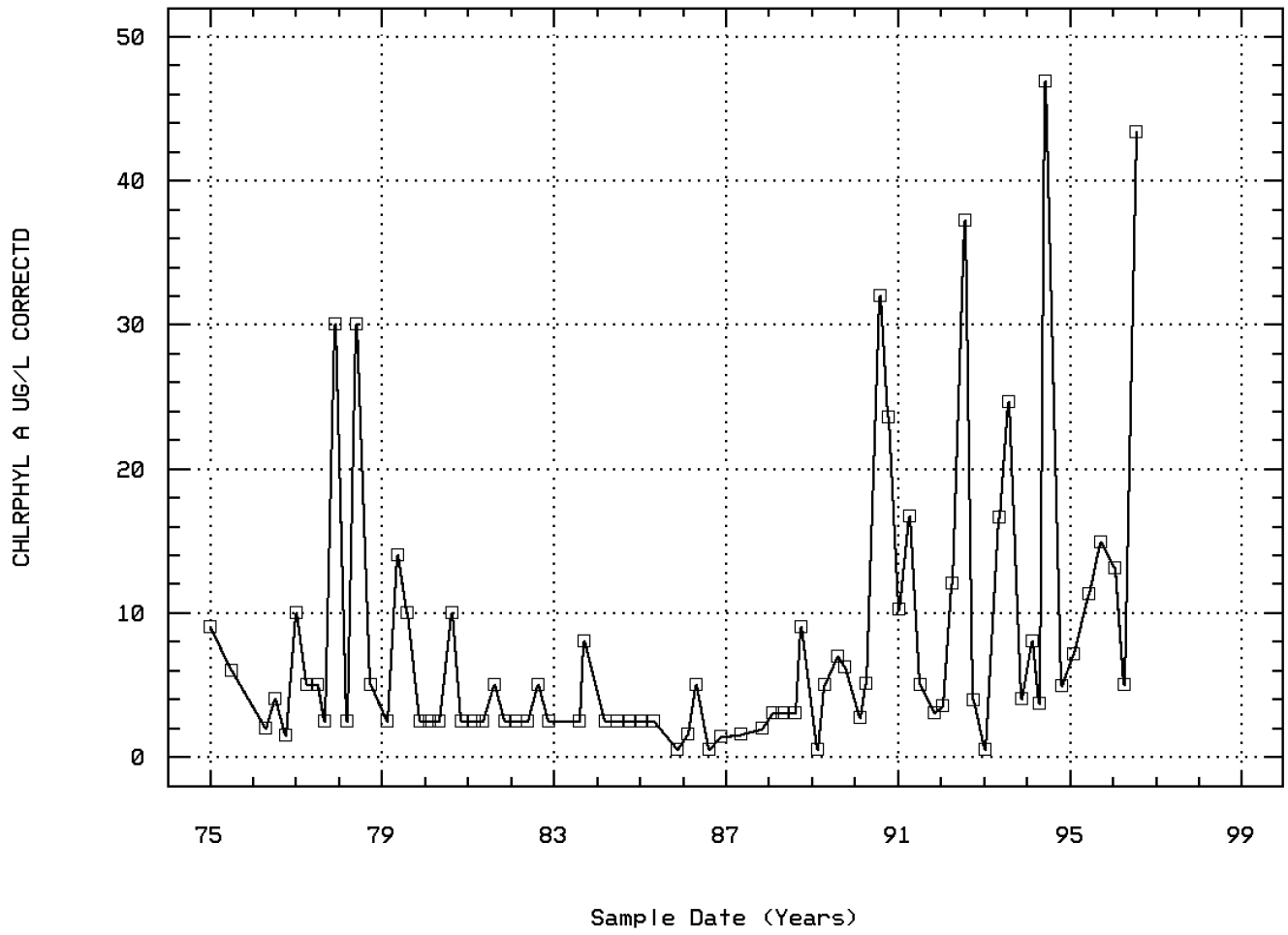
SULFATE, TOTAL (MG/L AS SO4)



LAGUNA MADRE ICWW/PADRE I.CSWY

Station: PAIS0255 Parameter Code: 32211

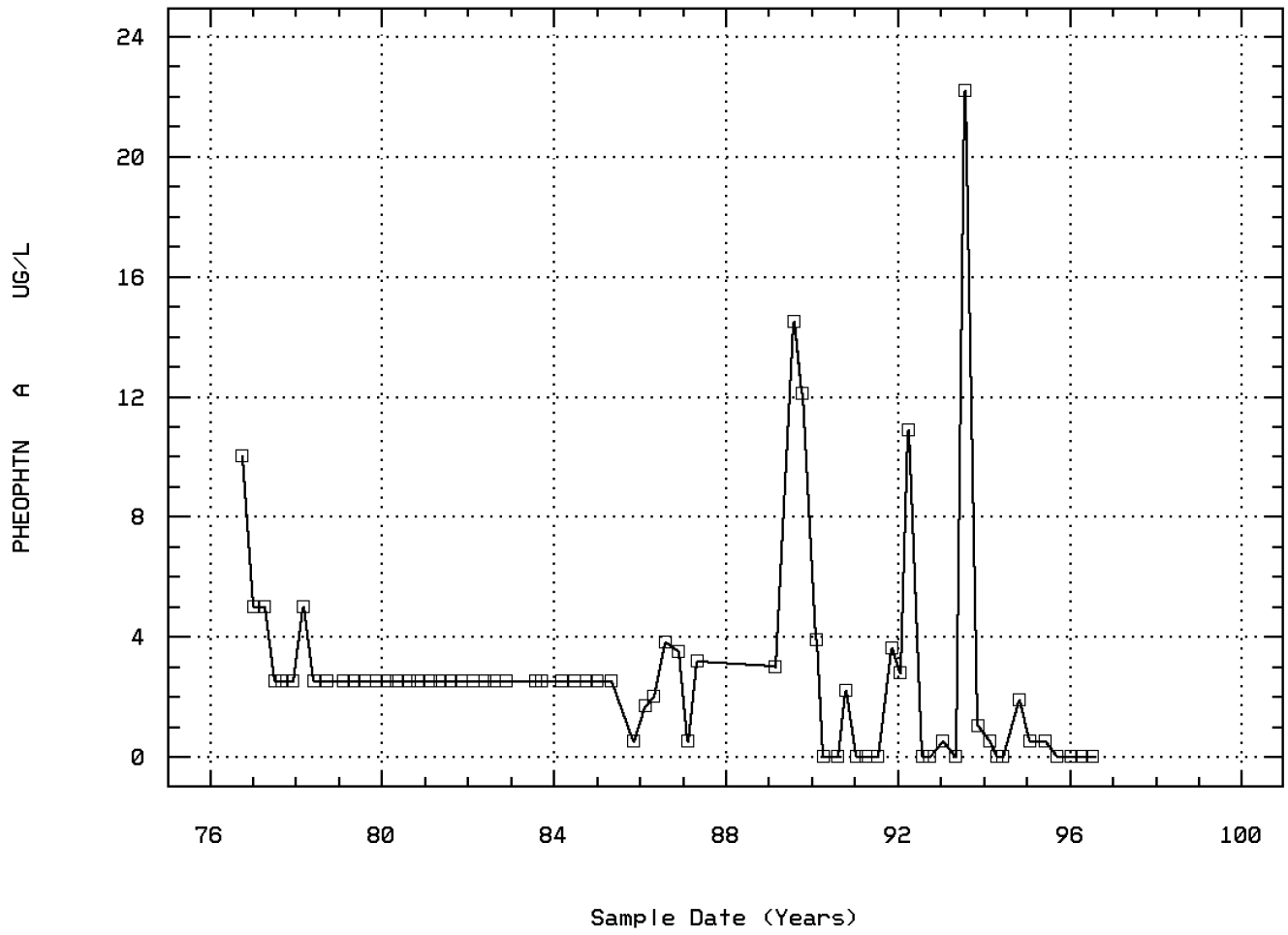
CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC A



LAGUNA MADRE ICWW/PADRE I.CSWY

Station: PAIS0255 Parameter Code: 32218

PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC AC



LAGUNA MADRE ICWW/PADRE I.CSWY

Annual Analysis for 1975 - Station PAIS0255

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	01/06/75-07/16/96	11	10.	7.364	15.	1.	32.655	5.714	1.	1.	12.	15.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/06/75-07/16/96	7	28.	24.357	30.	12.	46.226	6.799	**	**	**	**
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	01/06/75-07/16/96	8	58250.	53500.	60000.	44000.	58214285.714	7629.829	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	01/06/75-07/16/96	7	9.9	9.729	11.7	7.6	2.142	1.464	**	**	**	**
00400p	PH (STANDARD UNITS)	01/06/75-07/16/96	7	8.6	8.543	8.7	8.3	0.033	0.181	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	01/06/75-07/16/96	7	8.6	8.509	8.7	8.3	0.034	0.185	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/06/75-07/16/96	7	0.003	0.003	0.005	0.002	0.	0.001	**	**	**	**

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

Annual Analysis for 1976 - Station PAIS0255

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	01/06/75-07/16/96	7	10.	6.143	10.	1.	23.143	4.811	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/06/75-07/16/96	4	24.5	21.75	27.5	10.5	59.75	7.73	**	**	**	**
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	01/06/75-07/16/96	7	51500.	50785.714	58000.	45000.	29571428.571	5437.962	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	01/06/75-07/16/96	5	8.7	8.28	10.8	6.2	3.357	1.832	**	**	**	**
00400p	PH (STANDARD UNITS)	01/06/75-07/16/96	3	8.6	8.517	8.75	8.2	0.081	0.284	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	01/06/75-07/16/96	3	8.6	8.452	8.75	8.2	0.087	0.295	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/06/75-07/16/96	3	0.003	0.004	0.006	0.002	0.	0.002	**	**	**	**

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

Annual Analysis for 1977 - Station PAIS0255

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	01/06/75-07/16/96	12	5.	5.917	15.	1.	26.629	5.16	1.	1.	10.	14.4
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/06/75-07/16/96	8	22.75	21.375	30.	8.	81.268	9.015	**	**	**	**
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	01/06/75-07/16/96	8	52800.	47862.5	59500.	31500.	131485535.714	11466.714	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	01/06/75-07/16/96	7	7.3	8.029	10.1	5.9	2.809	1.676	**	**	**	**
00400p	PH (STANDARD UNITS)	01/06/75-07/16/96	8	8.375	8.288	8.5	8.05	0.031	0.175	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	01/06/75-07/16/96	8	8.374	8.256	8.5	8.05	0.032	0.178	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/06/75-07/16/96	8	0.004	0.006	0.009	0.003	0.	0.002	**	**	**	**

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

Annual Analysis for 1978 - Station PAIS0255

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	01/06/75-07/16/96	10	7.5	9.1	28.	1.	73.211	8.556	1.	1.	15.	26.7
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/06/75-07/16/96	6	26.5	23.167	29.	14.5	40.967	6.401	**	**	**	**
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	01/06/75-07/16/96	9	54100.	52700.	60000.	46100.	26590000.	5156.549	46100.	46500.	56500.	60000.
00300p	OXYGEN, DISSOLVED MG/L	01/06/75-07/16/96	6	7.8	8.5	10.4	7.3	1.988	1.41	**	**	**	**
00400p	PH (STANDARD UNITS)	01/06/75-07/16/96	7	8.4	8.379	8.5	8.2	0.013	0.115	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	01/06/75-07/16/96	7	8.4	8.365	8.5	8.2	0.013	0.116	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/06/75-07/16/96	7	0.004	0.004	0.006	0.003	0.	0.001	**	**	**	**

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

Annual Analysis for 1979 - Station PAIS0255

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	01/06/75-07/16/96	12	10.	9.5	20.	1.	51.909	7.205	1.	1.	15.	20.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/06/75-07/16/96	8	23.75	23.763	30.3	17.5	21.368	4.623	**	**	**	**
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	01/06/75-07/16/96	8	47500.	47562.5	49000.	46500.	674107.143	821.04	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	01/06/75-07/16/96	7	7.3	7.043	8.3	4.8	1.576	1.255	**	**	**	**
00400p	PH (STANDARD UNITS)	01/06/75-07/16/96	8	8.39	8.404	8.5	8.3	0.008	0.087	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	01/06/75-07/16/96	8	8.39	8.396	8.5	8.3	0.008	0.087	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/06/75-07/16/96	8	0.004	0.004	0.005	0.003	0.	0.001	**	**	**	**

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

Annual Analysis for 1980 - Station PAIS0255

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	01/06/75-07/16/96	11	10.	7.636	20.	1.	41.255	6.423	1.	1.	10.	19.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/06/75-07/16/96	7	26.	23.257	31.	12.9	55.99	7.483	**	**	**	**
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	01/06/75-07/16/96	7	46300.	48128.571	53300.	45200.	11055714.286	3325.013	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	01/06/75-07/16/96	7	6.9	6.871	9.7	4.5	4.829	2.198	**	**	**	**
00400p	PH (STANDARD UNITS)	01/06/75-07/16/96	6	8.	8.025	8.55	7.8	0.076	0.275	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	01/06/75-07/16/96	6	8.	7.968	8.55	7.8	0.08	0.282	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/06/75-07/16/96	6	0.01	0.011	0.016	0.003	0.	0.005	**	**	**	**

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

Annual Analysis for 1981 - Station PAIS0255

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	01/06/75-07/16/96	14	10.	8.857	20.	1.	46.593	6.826	1.	1.	15.	20.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/06/75-07/16/96	8	21.45	22.875	29.8	16.5	36.239	6.02	**	**	**	**
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	01/06/75-07/16/96	9	43800.	45733.333	53800.	37500.	39272500.	6266.777	37500.	40100.	51850.	53800.
00300p	OXYGEN, DISSOLVED MG/L	01/06/75-07/16/96	7	6.9	6.771	7.4	6.2	0.162	0.403	**	**	**	**
00400p	PH (STANDARD UNITS)	01/06/75-07/16/96	8	8.25	8.25	8.4	8.	0.017	0.131	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	01/06/75-07/16/96	8	8.247	8.232	8.4	8.	0.018	0.132	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/06/75-07/16/96	8	0.006	0.006	0.01	0.004	0.	0.002	**	**	**	**

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

Annual Analysis for 1982 - Station PAIS0255

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	01/06/75-07/16/96	13	10.	11.462	30.	1.	101.769	10.088	1.	1.	20.	28.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/06/75-07/16/96	8	24.2	23.2	30.8	17.9	18.497	4.301	**	**	**	**
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	01/06/75-07/16/96	10	51350.	51370.	57700.	41500.	40044555.556	6328.077	41990.	46550.	57625.	57700.
00300p	OXYGEN, DISSOLVED MG/L	01/06/75-07/16/96	8	7.6	7.5	8.7	6.1	0.954	0.977	**	**	**	**
00400p	PH (STANDARD UNITS)	01/06/75-07/16/96	8	8.1	8.131	8.25	8.	0.006	0.08	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	01/06/75-07/16/96	8	8.1	8.125	8.25	8.	0.006	0.08	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/06/75-07/16/96	8	0.008	0.008	0.01	0.006	0.	0.001	**	**	**	**

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

Annual Analysis for 1983 - Station PAIS0255

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	01/06/75-07/16/96	12	7.5	8.667	25.	1.	63.879	7.992	1.	1.	13.75	23.5
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/06/75-07/16/96	7	23.7	24.586	31.5	17.5	33.648	5.801	**	**	**	**
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	01/06/75-07/16/96	7	48200.	47271.429	49000.	44200.	3349047.619	1830.04	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	01/06/75-07/16/96	7	7.2	7.586	10.1	5.9	2.365	1.538	**	**	**	**
00400p	PH (STANDARD UNITS)	01/06/75-07/16/96	7	8.1	8.264	9.	7.7	0.212	0.461	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	01/06/75-07/16/96	7	8.1	8.103	9.	7.7	0.243	0.493	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/06/75-07/16/96	7	0.008	0.008	0.02	0.001	0.	0.006	**	**	**	**

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

Annual Analysis for 1984 - Station PAIS0255

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	01/06/75-07/16/96	12	10.	13.167	30.	1.	113.424	10.65	1.	2.	20.	30.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/06/75-07/16/96	7	28.	25.357	29.5	20.	19.726	4.441	**	**	**	**
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	01/06/75-07/16/96	8	66000.	65250.	81000.	51000.	159357142.857	12623.674	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	01/06/75-07/16/96	8	6.1	6.613	10.9	4.9	3.727	1.931	**	**	**	**
00400p	PH (STANDARD UNITS)	01/06/75-07/16/96	7	8.15	8.186	8.5	7.95	0.054	0.232	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	01/06/75-07/16/96	7	8.15	8.138	8.5	7.95	0.057	0.238	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/06/75-07/16/96	7	0.007	0.007	0.011	0.003	0.	0.003	**	**	**	**

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

Annual Analysis for 1985 - Station PAIS0255

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	01/06/75-07/16/96	17	10.	9.941	25.	1.	56.184	7.496	1.	3.	15.	21.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/06/75-07/16/96	10	28.05	25.37	29.2	14.	34.485	5.872	14.07	23.55	28.925	29.18
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	01/06/75-07/16/96	11	52000.	52127.273	56300.	47400.	12522181.818	3538.669	47480.	48000.	55800.	56260.
00300p	OXYGEN, DISSOLVED MG/L	01/06/75-07/16/96	10	5.4	6.25	9.4	4.3	3.056	1.748	4.37	5.225	7.25	9.38
00400p	PH (STANDARD UNITS)	01/06/75-07/16/96	8	8.4	8.325	8.5	8.1	0.028	0.167	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	01/06/75-07/16/96	8	8.4	8.296	8.5	8.1	0.029	0.17	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/06/75-07/16/96	8	0.004	0.005	0.008	0.003	0.	0.002	**	**	**	**
00480p	SALINITY - PARTS PER THOUSAND	11/14/85-07/16/96	1	40.9	40.9	40.9	40.9	0.	0.	**	**	**	**

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

Annual Analysis for 1986 - Station PAIS0255

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	01/06/75-07/16/96	17	10.	9.059	20.	1.	44.309	6.656	1.	3.	15.	20.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/06/75-07/16/96	10	24.55	22.49	31.1	13.5	47.503	6.892	13.5	13.5	27.35	31.07
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	01/06/75-07/16/96	10	51000.	51860.	63600.	42000.	63647111.111	7977.914	42200.	45500.	61375.	63550.
00300p	OXYGEN, DISSOLVED MG/L	01/06/75-07/16/96	10	7.45	7.16	9.	5.6	1.08	1.039	5.64	6.225	7.9	8.89
00400p	PH (STANDARD UNITS)	01/06/75-07/16/96	11	8.2	8.045	8.6	7.35	0.204	0.452	7.35	7.4	8.3	8.56
00400p	CONVERTED PH (STANDARD UNITS)	01/06/75-07/16/96	11	8.2	7.809	8.6	7.35	0.266	0.516	7.35	7.4	8.3	8.56
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/06/75-07/16/96	11	0.006	0.016	0.045	0.003	0.	0.018	0.003	0.005	0.04	0.045

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

Annual Analysis for 1987 - Station PAIS0255

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	01/06/75-07/16/96	15	10.	9.6	20.	1.	51.543	7.179	1.	1.	15.	20.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/06/75-07/16/96	9	24.	23.689	30.8	17.6	25.171	5.017	17.6	18.2	27.9	30.8
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	01/06/75-07/16/96	10	47550.	49020.	55300.	45200.	16030666.667	4003.831	45200.	45200.	52350.	55290.
00300p	OXYGEN, DISSOLVED MG/L	01/06/75-07/16/96	10	6.4	6.87	8.4	4.7	1.856	1.362	4.8	5.85	8.325	8.4
00400p	PH (STANDARD UNITS)	01/06/75-07/16/96	8	8.3	8.175	8.5	7.7	0.091	0.301	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	01/06/75-07/16/96	8	8.3	8.08	8.5	7.7	0.101	0.318	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/06/75-07/16/96	8	0.005	0.008	0.02	0.003	0.	0.006	**	**	**	**

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

Annual Analysis for 1988 - Station PAIS0255

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	01/06/75-07/16/96	16	7.5	7.75	15.	1.	29.533	5.434	1.	2.	13.75	15.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/06/75-07/16/96	8	25.75	25.425	30.8	18.6	21.014	4.584	**	**	**	**
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	01/06/75-07/16/96	12	56300.	55850.	63500.	47900.	33015454.545	5745.908	48050.	49400.	60650.	63140.
00300p	OXYGEN, DISSOLVED MG/L	01/06/75-07/16/96	11	6.4	6.755	10.4	3.3	4.413	2.101	3.58	5.1	8.7	10.08
00400p	PH (STANDARD UNITS)	01/06/75-07/16/96	9	8.31	8.358	8.82	7.95	0.125	0.354	7.95	7.97	8.75	8.82
00400p	CONVERTED PH (STANDARD UNITS)	01/06/75-07/16/96	9	8.31	8.241	8.82	7.95	0.141	0.375	7.95	7.97	8.75	8.82
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/06/75-07/16/96	9	0.005	0.006	0.011	0.002	0.	0.004	0.002	0.002	0.011	0.011
00480p	SALINITY - PARTS PER THOUSAND	11/14/85-07/16/96	2	40.15	40.15	40.3	40.	0.045	0.212	**	**	**	**

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

Annual Analysis for 1989 - Station PAIS0255

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	01/06/75-07/16/96	10	7.5	8.9	25.	1.	76.322	8.736	1.	1.	16.25	24.5
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/06/75-07/16/96	6	25.7	23.2	29.1	15.9	30.636	5.535	**	**	**	**
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	01/06/75-07/16/96	7	53200.	54842.857	62500.	51500.	14736190.476	3838.775	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	01/06/75-07/16/96	7	8.2	8.371	9.6	7.	0.842	0.918	**	**	**	**
00400p	PH (STANDARD UNITS)	01/06/75-07/16/96	6	8.35	8.36	8.7	8.04	0.076	0.275	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	01/06/75-07/16/96	6	8.325	8.291	8.7	8.04	0.081	0.285	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/06/75-07/16/96	6	0.005	0.005	0.009	0.002	0.	0.003	**	**	**	**
00480p	SALINITY - PARTS PER THOUSAND	11/14/85-07/16/96	5	37.3	36.2	37.5	34.3	2.71	1.646	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 PAIS0255

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	01/06/75-07/16/96	17	10.	12.	25.	1.	81.625	9.035	1.	3.	20.	25.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/06/75-07/16/96	9	20.5	23.356	30.2	19.5	19.943	4.466	19.5	19.75	27.75	30.2
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	01/06/75-07/16/96	11	59500.	59563.636	72400.	49500.	56092545.455	7489.496	49860.	51500.	63600.	72160.
00300p	OXYGEN, DISSOLVED MG/L	01/06/75-07/16/96	10	6.85	6.87	8.8	4.4	1.393	1.18	4.58	6.275	7.7	8.72
00400p	PH (STANDARD UNITS)	01/06/75-07/16/96	10	8.5	8.5	8.8	8.1	0.049	0.221	8.12	8.3	8.65	8.8
00400p	CONVERTED PH (STANDARD UNITS)	01/06/75-07/16/96	10	8.5	8.448	8.8	8.1	0.052	0.228	8.12	8.3	8.65	8.8
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/06/75-07/16/96	10	0.003	0.004	0.008	0.002	0.	0.002	0.002	0.002	0.005	0.008
00480p	SALINITY - PARTS PER THOUSAND	11/14/85-07/16/96	10	39.	39.3	49.6	32.5	31.284	5.593	32.62	33.775	42.25	49.33

** - 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

Annual Analysis for 1991 - Station PAIS0255

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	01/06/75-07/16/96	17	10.	12.294	30.	1.	91.221	9.551	1.	3.	20.	26.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/06/75-07/16/96	10	20.15	22.15	31.	15.2	41.561	6.447	15.28	16.975	30.3	30.96
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	01/06/75-07/16/96	12	52550.	52375.	55000.	49500.	5002045.455	2236.525	49530.	49750.	54625.	54940.
00300p	OXYGEN, DISSOLVED MG/L	01/06/75-07/16/96	9	8.1	6.944	8.6	3.8	3.888	1.972	3.8	4.7	8.4	8.6
00400p	PH (STANDARD UNITS)	01/06/75-07/16/96	10	8.45	8.42	8.5	8.2	0.011	0.103	8.21	8.375	8.5	8.5
00400p	CONVERTED PH (STANDARD UNITS)	01/06/75-07/16/96	10	8.447	8.408	8.5	8.2	0.011	0.104	8.21	8.375	8.5	8.5
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/06/75-07/16/96	10	0.004	0.004	0.006	0.003	0.	0.001	0.003	0.003	0.004	0.006
00480p	SALINITY - PARTS PER THOUSAND	11/14/85-07/16/96	9	34.6	34.367	36.3	32.4	2.777	1.667	32.4	32.4	36.15	36.3

** - 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 1992 - Station PAIS0255

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	01/06/75-07/16/96	17	10.	11.765	30.	1.	82.941	9.107	1.	3.	20.	26.8
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/06/75-07/16/96	9	22.4	20.289	30.	11.1	56.756	7.534	11.1	11.25	26.7	30.
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	01/06/75-07/16/96	11	39700.	42418.182	52300.	35600.	43051636.364	6561.375	35640.	35800.	51500.	52240.
00300p	OXYGEN, DISSOLVED MG/L	01/06/75-07/16/96	11	9.	8.664	11.2	5.4	3.469	1.862	5.48	7.5	10.3	11.08
00400p	PH (STANDARD UNITS)	01/06/75-07/16/96	10	8.4	8.46	8.6	8.4	0.007	0.084	8.4	8.4	8.525	8.6
00400p	CONVERTED PH (STANDARD UNITS)	01/06/75-07/16/96	10	8.4	8.453	8.6	8.4	0.007	0.085	8.4	8.4	8.525	8.6
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/06/75-07/16/96	10	0.004	0.004	0.004	0.003	0.	0.001	0.003	0.003	0.004	0.004
00480p	SALINITY - PARTS PER THOUSAND	11/14/85-07/16/96	9	25.4	27.289	34.4	22.5	19.909	4.462	22.5	23.8	31.6	34.4

** - 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 1993 - Station PAIS0255

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	01/06/75-07/16/96	19	15.	15.158	30.	1.	114.14	10.684	1.	5.	25.	30.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/06/75-07/16/96	10	16.3	19.61	30.6	11.8	47.69	6.906	11.82	15.	25.125	30.57
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	01/06/75-07/16/96	13	45300.	42507.692	48000.	36700.	24697435.897	4969.651	36820.	37100.	47500.	47880.
00300p	OXYGEN, DISSOLVED MG/L	01/06/75-07/16/96	13	7.4	6.785	8.9	3.5	3.395	1.842	3.66	5.2	8.1	8.9
00400p	PH (STANDARD UNITS)	01/06/75-07/16/96	11	8.1	8.209	8.5	8.	0.045	0.212	8.	8.	8.4	8.5
00400p	CONVERTED PH (STANDARD UNITS)	01/06/75-07/16/96	11	8.1	8.165	8.5	8.	0.047	0.217	8.	8.	8.4	8.5
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/06/75-07/16/96	11	0.008	0.007	0.01	0.003	0.	0.003	0.003	0.004	0.01	0.01
00480p	SALINITY - PARTS PER THOUSAND	11/14/85-07/16/96	10	29.55	27.91	31.2	23.3	12.417	3.524	23.32	23.95	31.1	31.19

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

Annual Analysis for 1994 - Station PAIS0255

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	01/06/75-07/16/96	13	10.	13.154	27.	1.	102.974	10.148	1.	1.	22.	26.6
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/06/75-07/16/96	7	23.8	23.971	29.8	18.7	19.199	4.382	**	**	**	**
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	01/06/75-07/16/96	10	45350.	48740.	56600.	42900.	35736000.	5977.96	42930.	43200.	55500.	56550.
00300p	OXYGEN, DISSOLVED MG/L	01/06/75-07/16/96	9	6.4	6.078	6.9	4.6	0.617	0.785	4.6	5.4	6.7	6.9
00400p	PH (STANDARD UNITS)	01/06/75-07/16/96	8	8.25	8.2	8.6	7.8	0.1	0.316	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	01/06/75-07/16/96	8	8.247	8.103	8.6	7.8	0.111	0.333	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/06/75-07/16/96	8	0.006	0.008	0.016	0.003	0.	0.005	**	**	**	**
00480p	SALINITY - PARTS PER THOUSAND	11/14/85-07/16/96	7	29.5	32.157	37.7	27.6	20.593	4.538	**	**	**	**

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

Annual Analysis for 1995 - Station PAIS0255

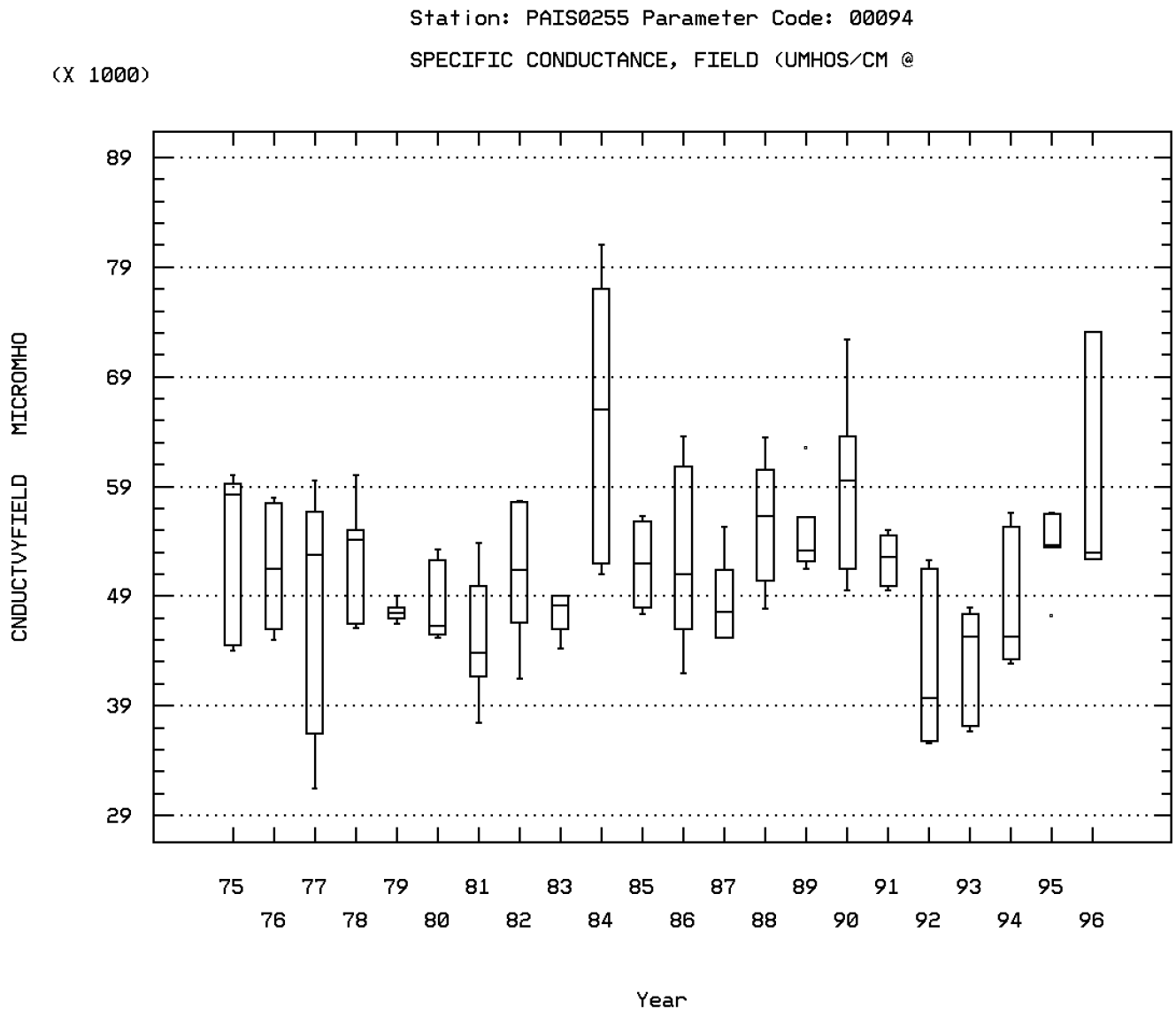
Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	01/06/75-07/16/96	7	1.	5.	20.	1.	55.	7.416	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/06/75-07/16/96	5	28.1	23.62	32.	14.7	65.857	8.115	**	**	**	**
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	01/06/75-07/16/96	5	53700.	53500.	56600.	47200.	14585000.	3819.031	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	01/06/75-07/16/96	5	7.5	6.9	8.2	5.3	1.945	1.395	**	**	**	**
00400p	PH (STANDARD UNITS)	01/06/75-07/16/96	5	8.06	8.066	8.24	7.9	0.026	0.163	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	01/06/75-07/16/96	5	8.06	8.042	8.24	7.9	0.027	0.165	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/06/75-07/16/96	5	0.009	0.009	0.013	0.006	0.	0.003	**	**	**	**
00480p	SALINITY - PARTS PER THOUSAND	11/14/85-07/16/96	5	35.5	35.32	37.7	30.8	7.992	2.827	**	**	**	**

** - 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 1996 - Station PAIS0255

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	01/06/75-07/16/96	3	1.	1.	1.	1.	0.	0.	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/06/75-07/16/96	3	21.8	23.067	30.	17.4	40.893	6.395	**	**	**	**
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	01/06/75-07/16/96	3	53000.	59500.	73100.	52400.	138810000.	11781.766	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	01/06/75-07/16/96	3	6.1	5.967	6.9	4.9	1.013	1.007	**	**	**	**
00400p	PH (STANDARD UNITS)	01/06/75-07/16/96	3	8.22	8.387	8.94	8.	0.242	0.492	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	01/06/75-07/16/96	3	8.22	8.242	8.94	8.	0.273	0.523	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/06/75-07/16/96	3	0.006	0.006	0.01	0.001	0.	0.004	**	**	**	**
00480p	SALINITY - PARTS PER THOUSAND	11/14/85-07/16/96	3	35.	39.933	50.2	34.6	79.093	8.893	**	**	**	**

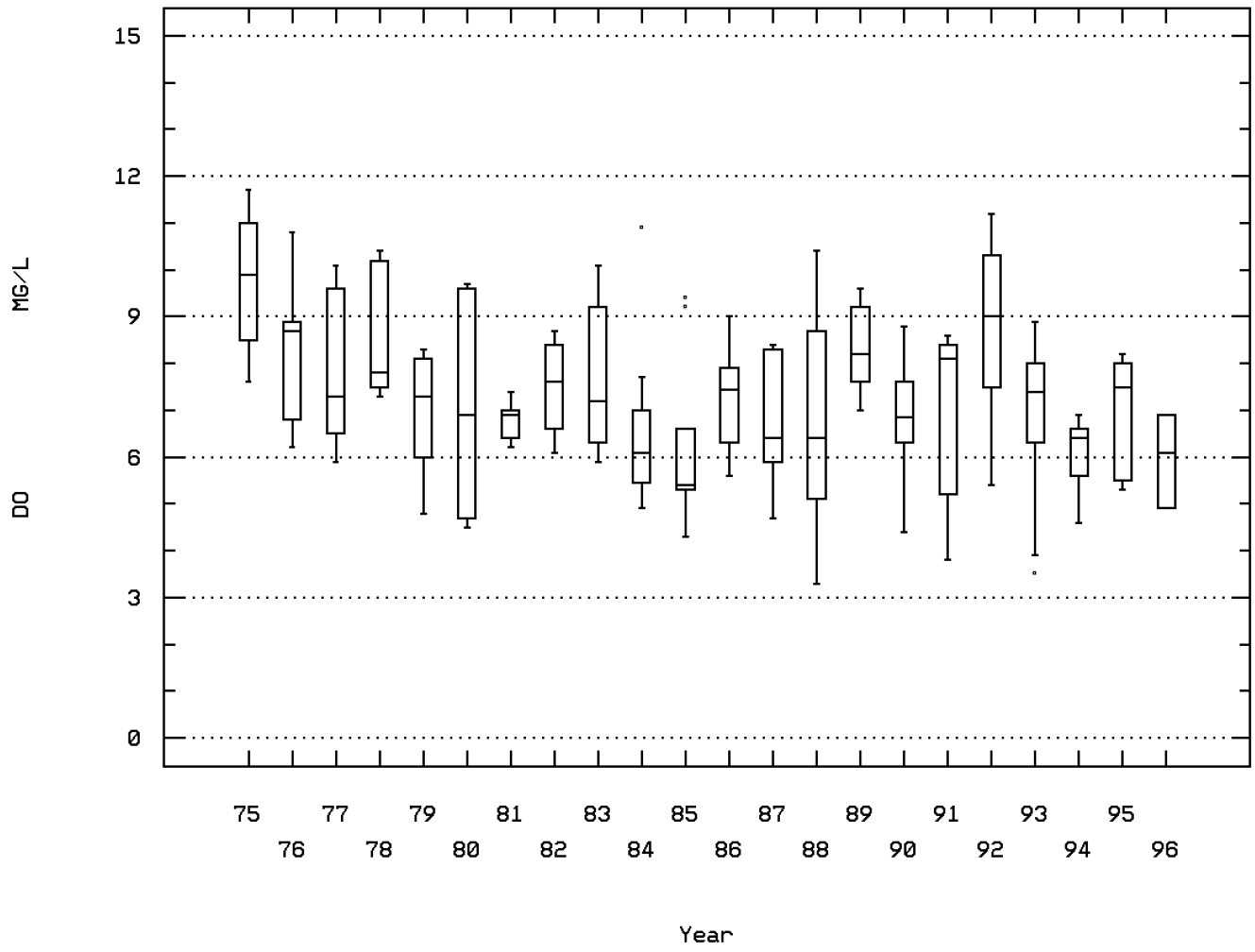
** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot



LAGUNA MADRE ICWW/PADRE I.CSWY

Station: PAIS0255 Parameter Code: 00300

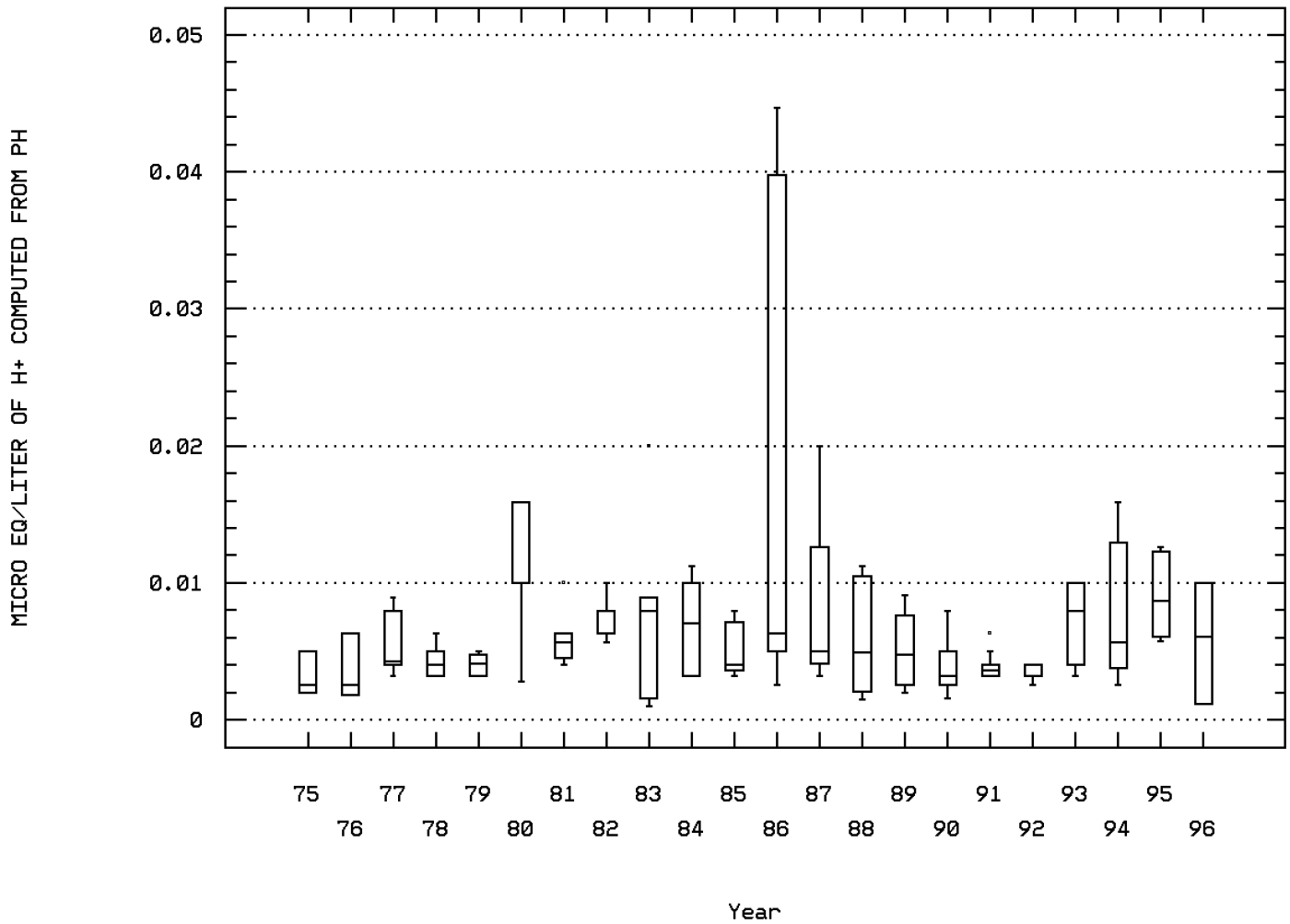
OXYGEN, DISSOLVED (MG/L)



LAGUNA MADRE ICWW/PADRE I.CSWY

Station: PAIS0255 Parameter Code: 00400

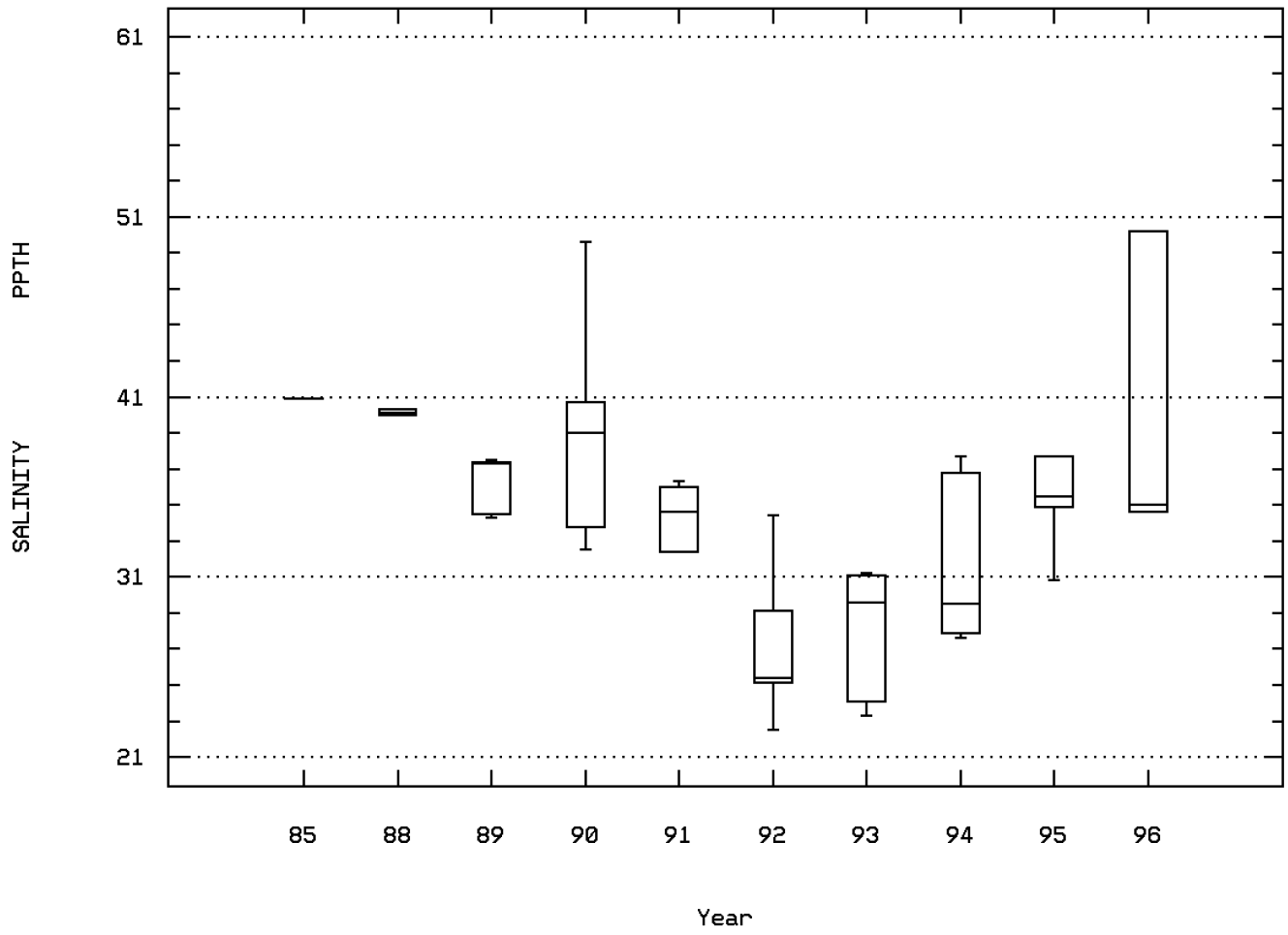
MICRO EQ/LITER OF H+ COMPUTED FROM PH



LAGUNA MADRE ICWW/PADRE I.CSWY

Station: PAIS0255 Parameter Code: 00480

SALINITY - PARTS PER THOUSAND



LAGUNA MADRE ICWW/PADRE I.CSWY

Seasonal Analysis for Season #1: 5/01 to 10/31 - Station PAIS0255

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	01/06/75-07/16/96	131	10.	9.779	30.	1.	70.635	8.404	1.	1.	15.	20.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/06/75-07/16/96	78	29.05	27.887	32.	20.5	8.142	2.853	23.39	25.775	30.025	30.8
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/06/75-11/14/85	43	83.5	81.758	88.7	68.9	24.503	4.95	73.92	78.8	85.1	86.98
00077	TRANSPARENCY, SECCHI DISC (INCHES)	01/11/77-04/17/89	15	36.	39.	60.	20.	101.143	10.057	26.	33.	45.	56.4
00078	TRANSPARENCY, SECCHI DISC (METERS)	02/12/90-07/16/96	12	0.5	0.618	1.8	0.1	0.203	0.45	0.154	0.325	0.815	1.56
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	01/06/75-07/16/96	93	53900.	53322.581	81000.	36700.	82926115.007	9106.378	42120.	46500.	58250.	63560.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/09/78-02/02/88	18	48350.	49566.611	68992.	39200.	54494914.252	7382.067	40370.	45450.	52626.	62789.2
00300p	OXYGEN, DISSOLVED MG/L	01/06/75-07/16/96	83	6.6	6.72	11.7	3.3	3.3	1.817	4.54	5.3	7.6	9.12
00400p	PH (STANDARD UNITS)	01/06/75-07/16/96	81	8.4	8.39	9.	7.7	0.07	0.265	8.	8.2	8.55	8.74
00400p	CONVERTED PH (STANDARD UNITS)	01/06/75-07/16/96	81	8.4	8.308	9.	7.7	0.077	0.277	8.	8.2	8.55	8.74
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/06/75-07/16/96	81	0.004	0.005	0.02	0.001	0.	0.003	0.002	0.003	0.006	0.01
00403	PH, LAB, STANDARD UNITS SU	01/06/75-02/02/88	24	8.3	8.279	8.7	7.1	0.105	0.324	8.	8.2	8.475	8.7
00403	CONVERTED PH, LAB, STANDARD UNITS	01/06/75-02/02/88	24	8.3	8.082	8.7	7.1	0.146	0.382	8.	8.2	8.475	8.7
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/06/75-02/02/88	24	0.005	0.008	0.079	0.002	0.	0.015	0.002	0.003	0.006	0.01
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/07/76-07/16/96	40	131.	132.2	173.	86.	308.164	17.555	112.2	119.25	145.75	155.6
00480	SALINITY - PARTS PER THOUSAND	11/14/85-07/16/96	26	37.05	35.669	50.2	23.3	52.551	7.249	23.92	30.375	38.55	47.71
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/06/75-07/16/96	43	27.	35.077	134.	0.3	887.853	29.797	10.2	16.	35.	81.4
00535p	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	01/06/75-07/16/96	43	9.	12.105	38.	1.	83.804	9.154	5.	5.	16.	31.2
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	01/06/75-07/16/96	41	0.03	0.064	0.3	0.005	0.005	0.073	0.01	0.025	0.08	0.194
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/07/76-06/08/94	23 ##	0.015	0.018	0.04	0.005	0.	0.008	0.01	0.015	0.02	0.03
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/07/75-04/21/94	34 ##	0.015	0.035	0.24	0.005	0.003	0.053	0.005	0.009	0.03	0.1
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	01/06/75-11/14/85	22	0.12	0.169	0.58	0.	0.019	0.138	0.03	0.09	0.25	0.361
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	01/06/75-11/14/85	21 ##	0.015	0.036	0.24	0.015	0.003	0.052	0.015	0.015	0.03	0.09
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	01/06/75-07/16/96	42	0.06	0.063	0.19	0.01	0.002	0.039	0.03	0.038	0.08	0.12
00671p	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	01/06/75-07/16/96	40	0.02	0.028	0.1	0.005	0.001	0.026	0.005	0.005	0.048	0.07
00680p	CARBON, TOTAL ORGANIC (MG/L AS C)	04/26/76-07/16/96	38	5.5	5.763	21.	0.5	22.659	4.76	0.5	0.875	9.	11.
00940p	CHLORIDE,TOTAL IN WATER MG/L	01/06/75-07/16/96	43	19100.	18646.047	28300.	257.	18976819.236	4356.239	13940.	16700.	21000.	23400.
00945p	SULFATE, TOTAL (MG/L AS SO4)	01/06/75-07/16/96	42	2700.	2745.976	4130.	32.	439677.78	663.082	2003.	2585.25	3033.5	3570.
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	01/06/75-05/01/85	15 ##	5.	670.8	10000.	0.	6660773.707	2580.847	0.	0.5	5.	4006.6
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	01/06/75-05/01/85	15 ##	0.699	0.735	4.	-0.301	1.004	1.002	0.	-0.301	0.699	2.225
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			5.438								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	03/13/84-07/16/96	13 ##	1.5	86.269	1080.	1.	89163.359	298.602	1.	1.5	7.	653.2
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	03/13/84-07/16/96	13 ##	0.176	0.57	3.033	0.	0.671	0.819	0.	0.176	0.801	2.266
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			3.714								
32211p	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	01/06/75-07/16/96	38	5.	10.924	46.9	0.5	150.069	12.25	2.41	2.5	14.225	32.52
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	10/07/76-07/16/96	36 ##	2.5	3.191	22.2	0.	20.699	4.55	0.	0.625	2.5	10.63
72053	DAYS SINCE PRECIPITATION EVENT DAYS	10/12/89-07/16/96	12	5.	3.417	5.	1.	3.902	1.975	1.	1.	5.	5.

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

Seasonal Analysis for Season #2: 11/01 to 4/30 - Station PAIS0255

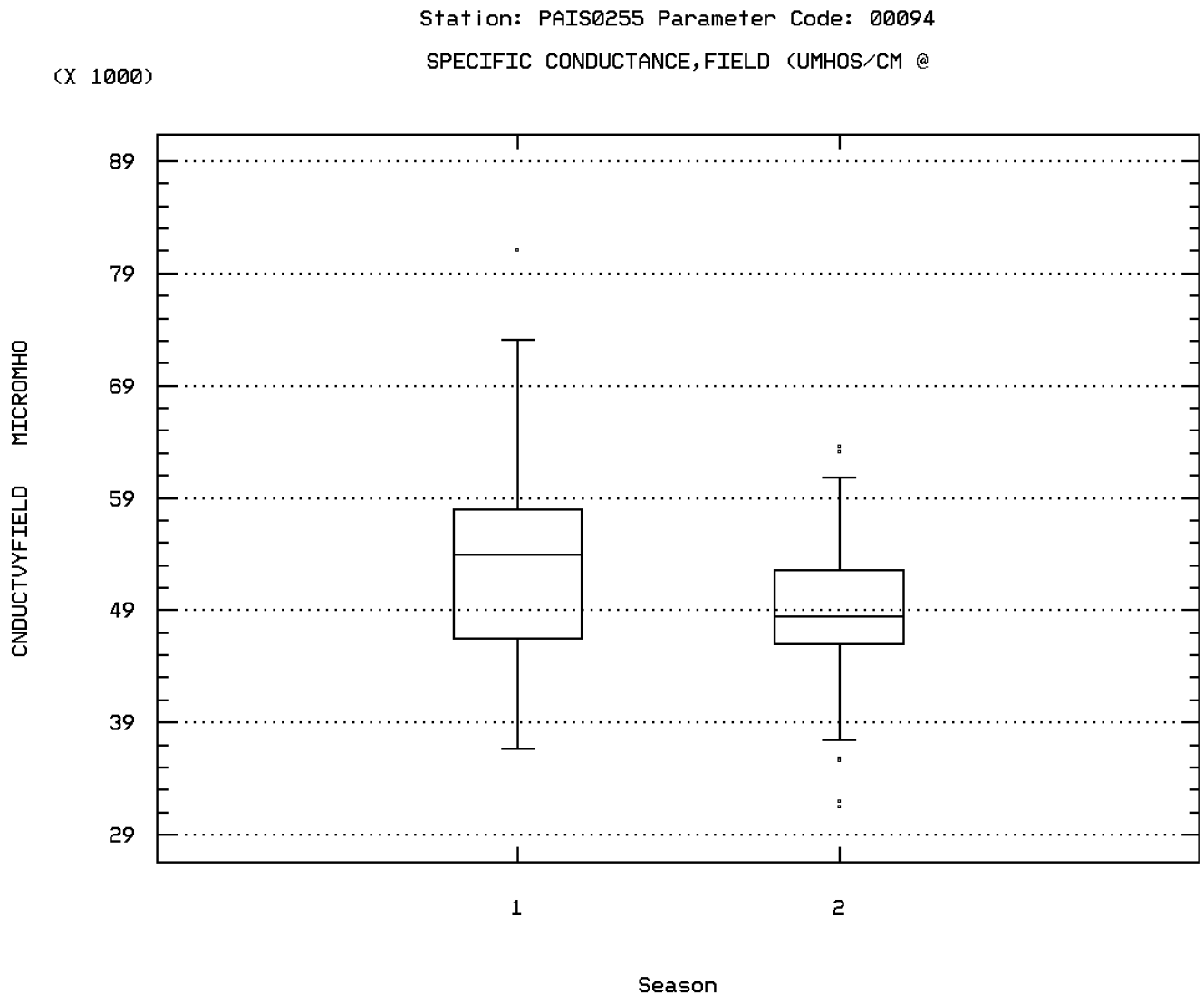
Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	01/06/75-07/16/96	151	10.	10.119	30.	1.	67.826	8.236	1.	1.	15.	20.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/06/75-07/16/96	88	18.65	18.901	28.3	8.	22.74	4.769	12.	15.925	22.875	25.63
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/06/75-11/14/85	35	65.3	64.957	81.9	46.4	76.546	8.749	52.52	58.5	70.7	76.66
00077	TRANSPARENCY, SECCHI DISC (INCHES)	01/11/77-04/17/89	21	44.	43.857	72.	24.	150.329	12.261	27.6	35.5	50.	60.
00078	TRANSPARENCY, SECCHI DISC (METERS)	02/12/90-07/16/96	14	0.855	0.886	1.8	0.3	0.202	0.449	0.3	0.508	1.04	1.75
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	01/06/75-07/16/96	103	48400.	49028.155	63600.	31500.	38870081.858	6234.588	40220.	46000.	52600.	57620.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/09/78-02/02/88	16	43693.	49159.625	89320.	35920.	172565511.05	13136.419	40106.	42469.5	52018.5	75482.4
00300p	OXYGEN, DISSOLVED MG/L	01/06/75-07/16/96	94	7.75	7.736	11.2	4.3	2.125	1.458	5.9	6.5	8.825	9.6
00400p	PH (STANDARD UNITS)	01/06/75-07/16/96	87	8.2	8.199	8.69	7.35	0.069	0.263	7.9	8.05	8.4	8.5
00400p	CONVERTED PH (STANDARD UNITS)	01/06/75-07/16/96	87	8.2	8.101	8.69	7.35	0.079	0.281	7.9	8.05	8.4	8.5
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/06/75-07/16/96	87	0.006	0.008	0.045	0.002	0.	0.008	0.003	0.004	0.009	0.013
00403	PH, LAB, STANDARD UNITS SU	01/06/75-02/02/88	22	8.2	8.273	8.7	8.	0.034	0.183	8.03	8.175	8.4	8.57
00403	CONVERTED PH, LAB, STANDARD UNITS	01/06/75-02/02/88	22	8.2	8.239	8.7	8.	0.035	0.186	8.03	8.175	8.4	8.57
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/06/75-02/02/88	22	0.006	0.006	0.01	0.002	0.	0.002	0.003	0.004	0.007	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

Seasonal Analysis for Season #2: 11/01 to 4/30 - Station PAIS0255

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/07/76-07/16/96	39	144.	145.103	197.	114.	367.621	19.173	120.	133.	156.	173.
00480	SALINITY - PARTS PER THOUSAND	11/14/85-07/16/96	35	32.4	32.094	40.9	22.5	21.469	4.634	25.1	29.3	34.9	38.56
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/06/75-07/16/96	41	25.	31.22	126.	5.	561.326	23.692	8.2	13.5	43.5	64.4
00535p	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	01/06/75-07/16/96	41	7.	9.232	30.	2.	54.001	7.349	3.	4.	12.	22.4
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	01/06/75-07/16/96	41	0.03	0.055	0.26	0.005	0.004	0.061	0.005	0.02	0.065	0.14
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/07/76-06/08/94	23 ##	0.015	0.012	0.03	0.005	0.	0.006	0.005	0.005	0.015	0.015
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/07/75-04/21/94	36 ##	0.015	0.034	0.24	0.005	0.002	0.047	0.005	0.005	0.048	0.09
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	01/06/75-11/14/85	18	0.09	0.093	0.21	0.015	0.003	0.052	0.015	0.053	0.12	0.156
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	01/06/75-11/14/85	18 ##	0.015	0.041	0.28	0.015	0.004	0.063	0.015	0.015	0.038	0.1
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	01/06/75-07/16/96	41	0.05	0.046	0.12	0.005	0.001	0.023	0.012	0.03	0.06	0.07
00671p	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	01/06/75-07/16/96	41	0.02	0.022	0.09	0.005	0.	0.019	0.005	0.005	0.03	0.04
00680p	CARBON, TOTAL ORGANIC (MG/L AS C)	04/26/76-07/16/96	39	5.	5.013	18.	0.5	20.638	4.543	0.5	0.5	7.	10.
00940p	CHLORIDE,TOTAL IN WATER MG/L	01/06/75-07/16/96	41	17800.	17740.	26400.	12000.	9418300.7	3068.925	13140.	15900.	19316.	21688.
00945p	SULFATE, TOTAL (MG/L AS SO4)	01/06/75-07/16/96	41	2470.	2485.512	4000.	1160.	366909.956	605.731	1720.	2150.	2700.	3460.
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	01/06/75-05/01/85	14 ##	5.	6.536	21.	0.	49.479	7.034	0.	0.375	7.5	20.5
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	01/06/75-05/01/85	14 ##	0.699	0.599	1.322	-0.301	0.254	0.504	0.	-0.226	0.818	1.312
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			3.975								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	03/13/84-07/16/96	18 ##	1.5	4.722	30.	1.	50.33	7.094	1.	1.5	4.25	14.7
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	03/13/84-07/16/96	18 ##	0.176	0.43	1.477	0.	0.17	0.412	0.	0.176	0.626	1.15
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			2.689								
32211p	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	01/06/75-07/16/96	40	2.85	5.027	30.	0.5	29.957	5.473	1.04	2.5	5.075	11.82
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	10/07/76-07/16/96	38 ##	2.5	2.143	10.9	0.	4.284	2.07	0.	0.5	2.575	5.
72053	DAYS SINCE PRECIPITATION EVENT DAYS	10/12/89-07/16/96	13	3.	3.346	5.	1.	2.974	1.725	1.	1.5	5.	5.

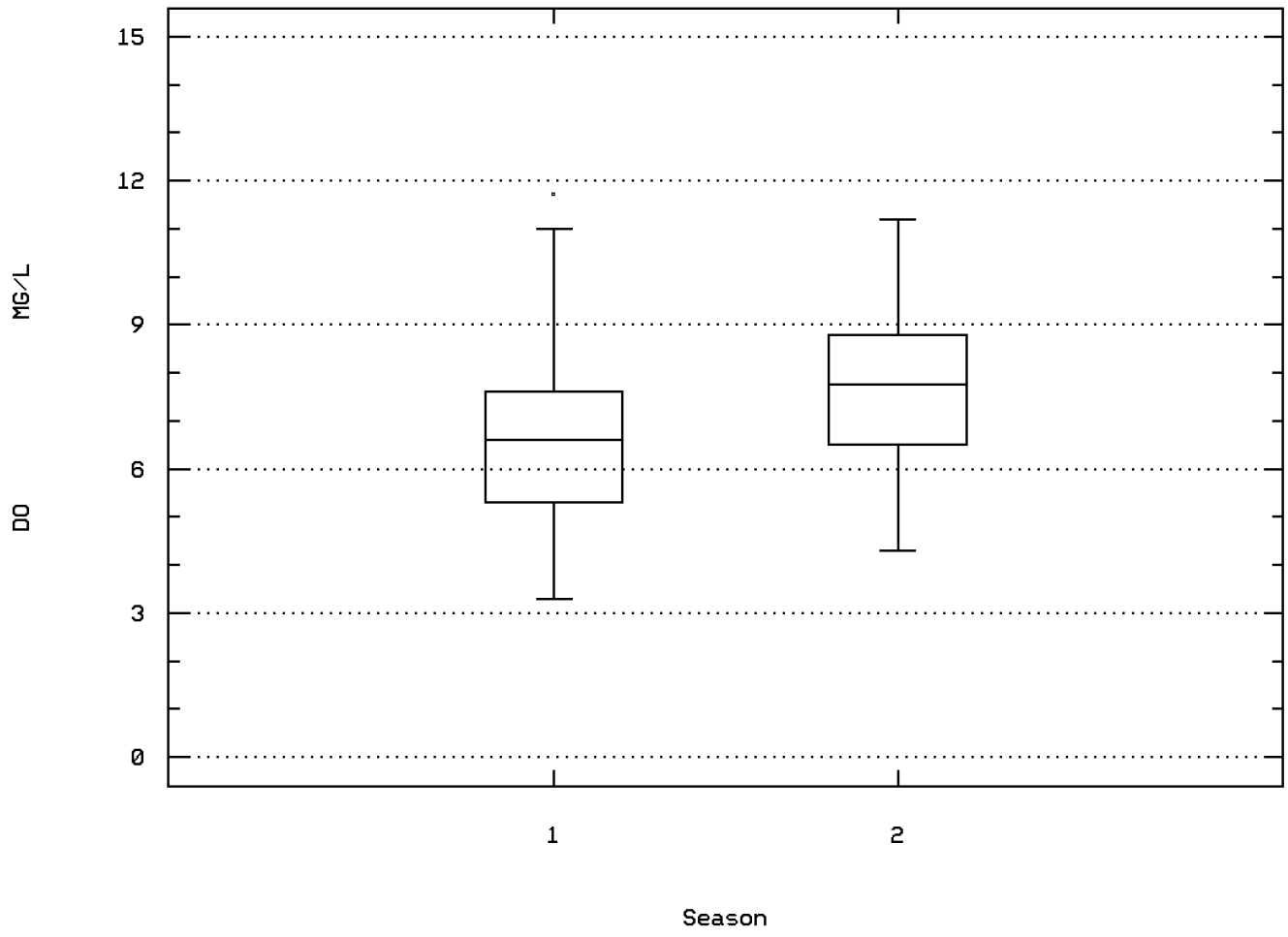
** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot



LAGUNA MADRE ICWW/PADRE I.CSWY

Station: PAIS0255 Parameter Code: 00300

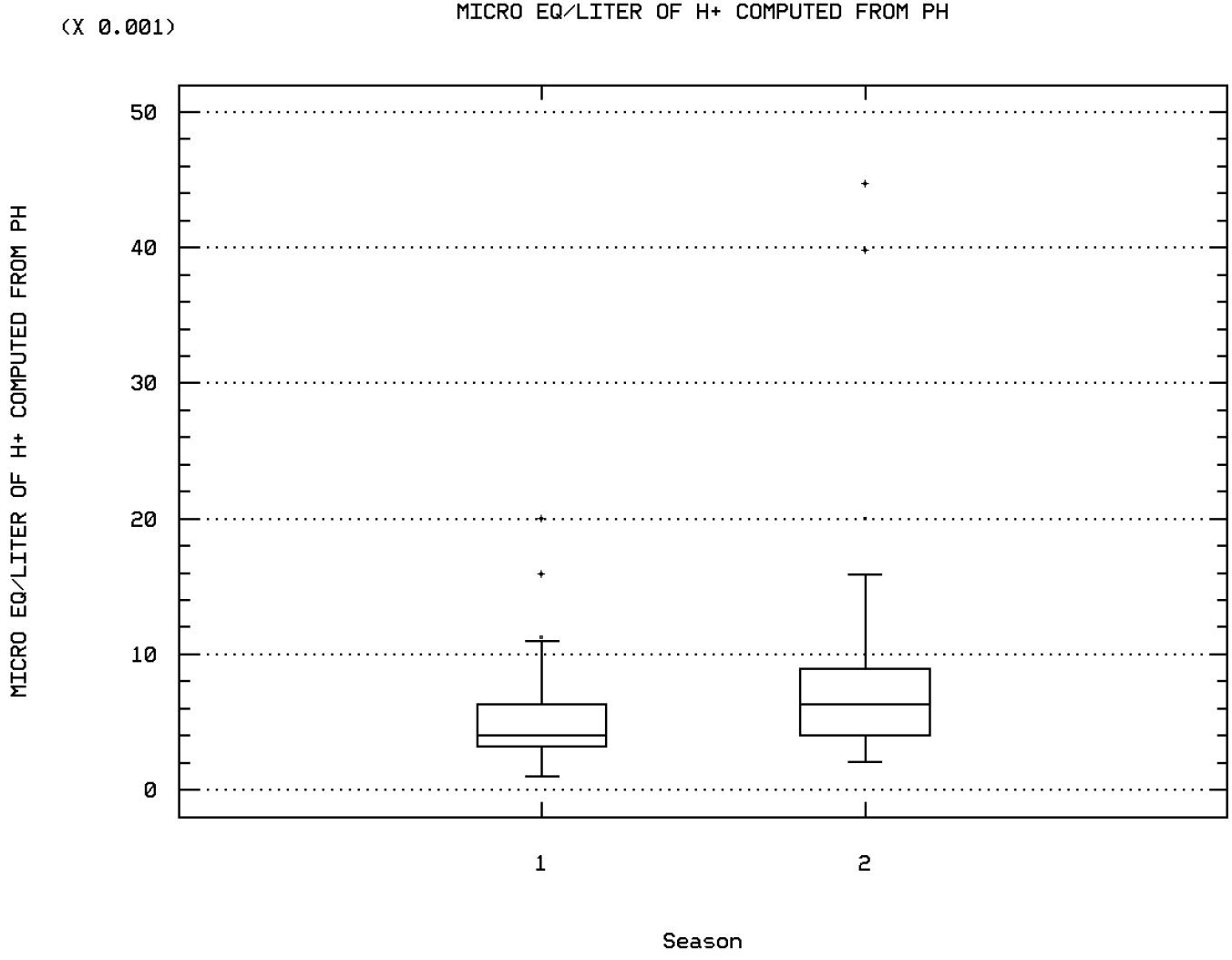
OXYGEN, DISSOLVED



LAGUNA MADRE ICWW/PADRE I.CSWY

Station: PAIS0255 Parameter Code: 00400

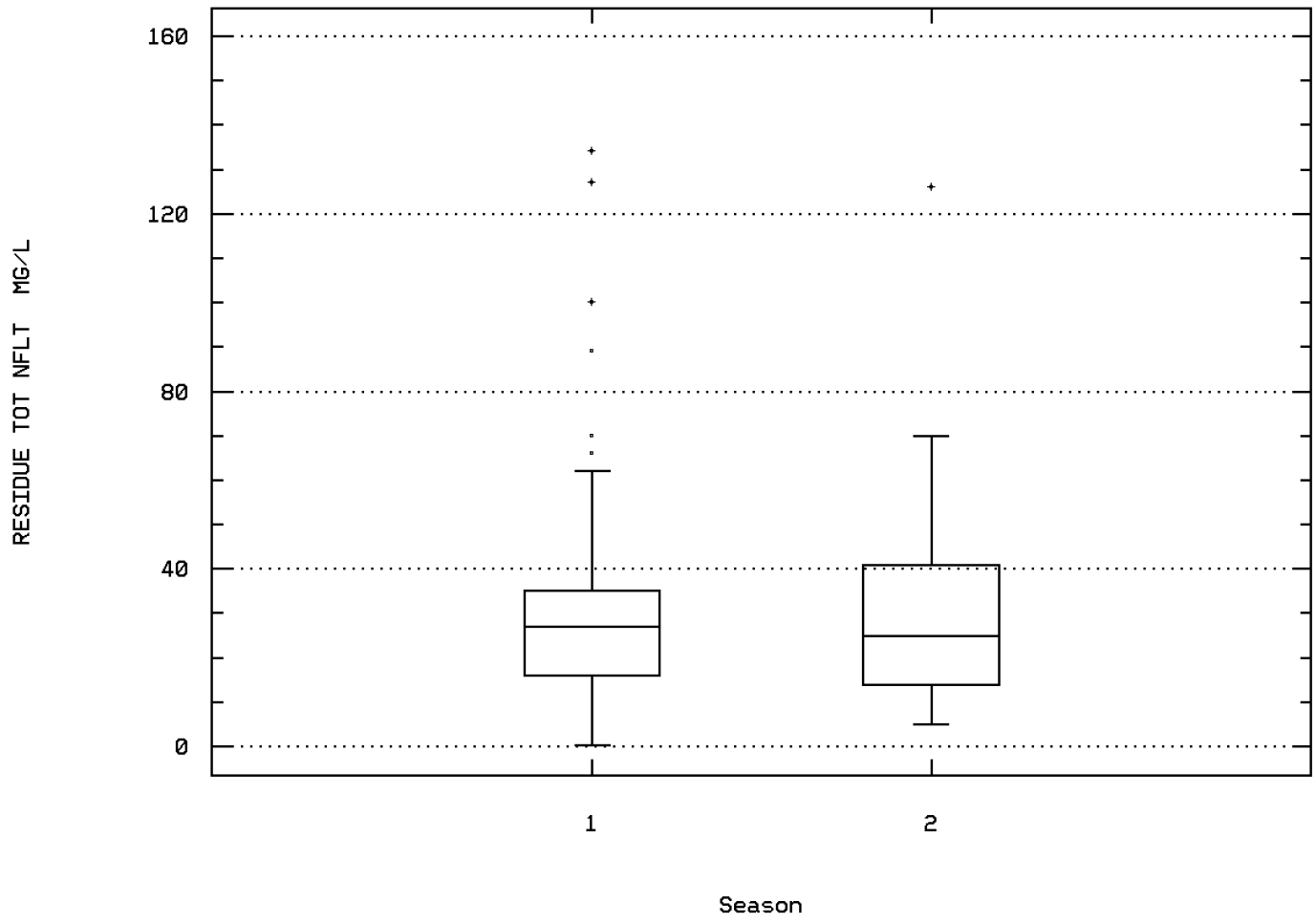
MICRO EQ/LITER OF H+ COMPUTED FROM PH



LAGUNA MADRE ICWW/PADRE I.CSWY

Station: PAIS0255 Parameter Code: 00530

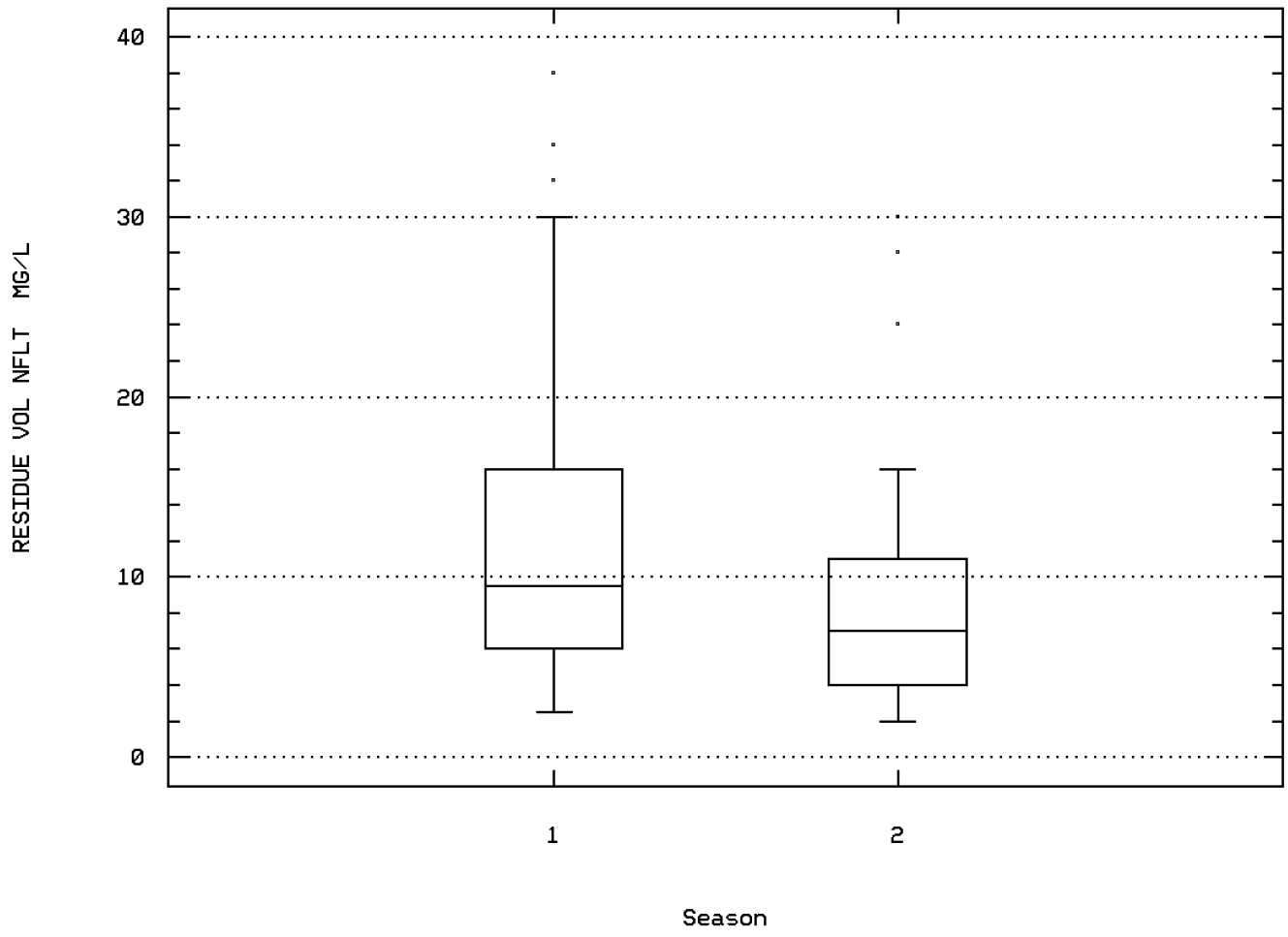
RESIDUE, TOTAL NONFILTRABLE (MG/L)



LAGUNA MADRE ICWW/PADRE I.CSWY

Station: PAIS0255 Parameter Code: 00535

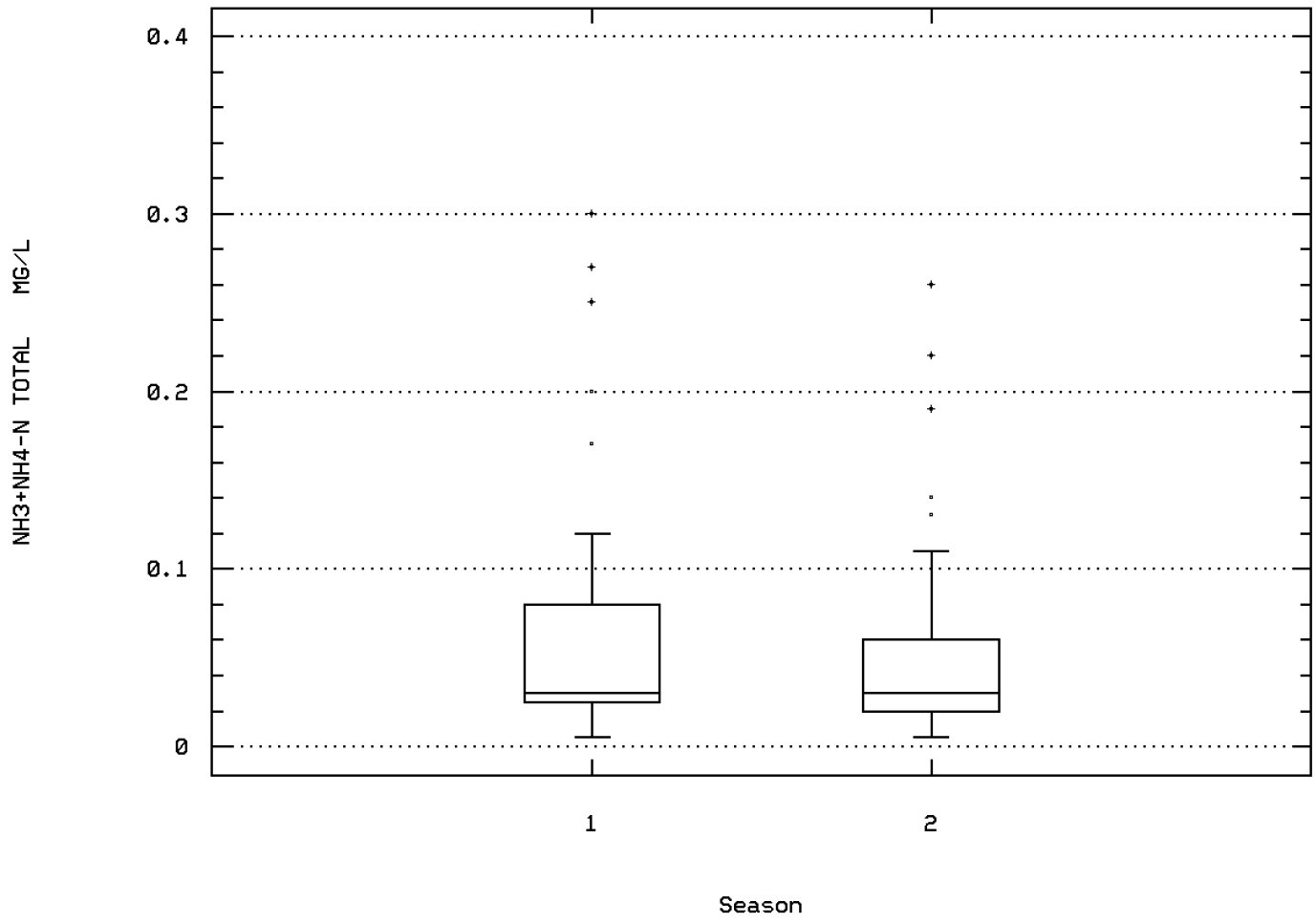
RESIDUE, VOLATILE NONFILTRABLE (MG/L)



LAGUNA MADRE ICWW/PADRE I.CSWY

Station: PAIS0255 Parameter Code: 00610

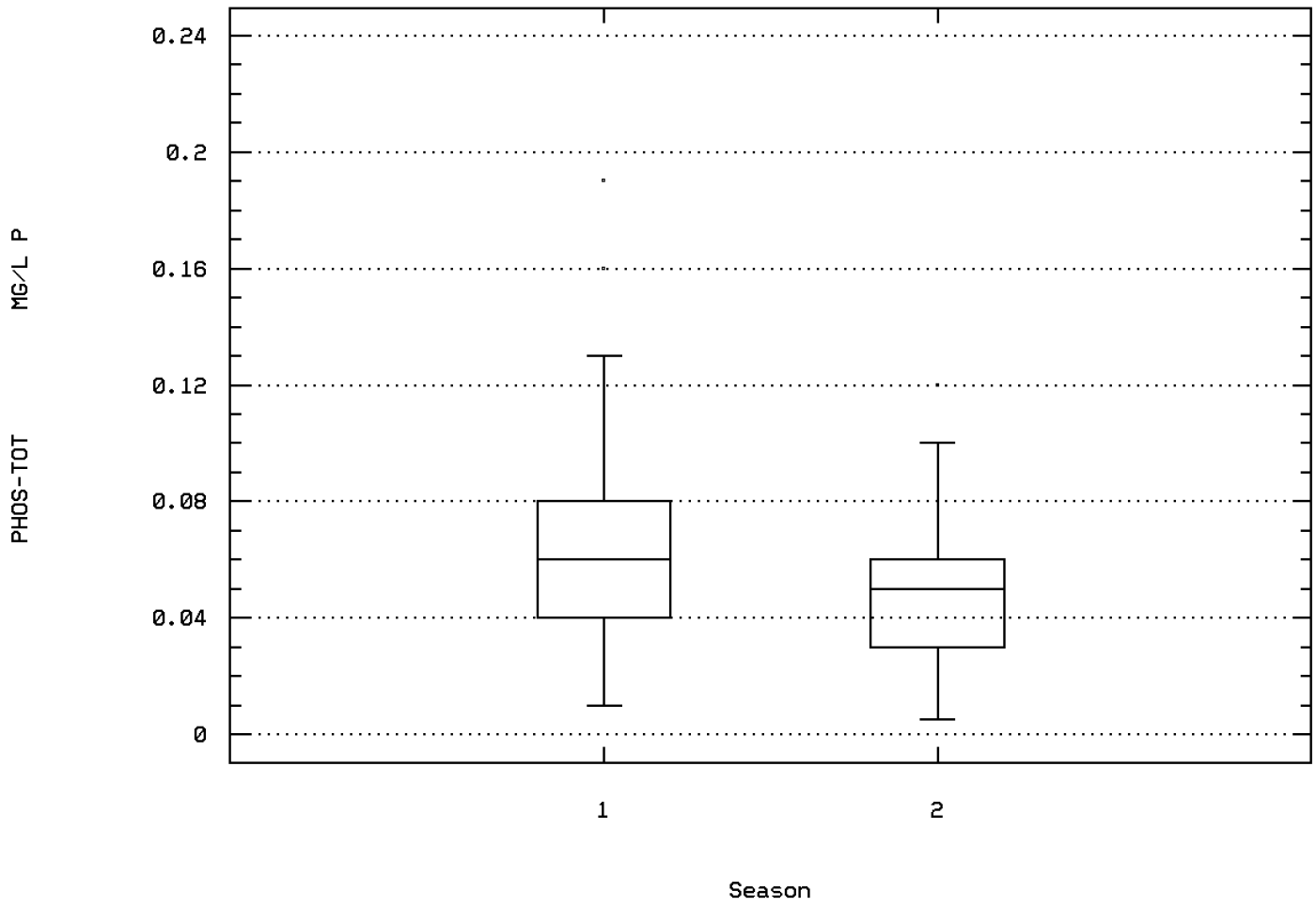
NITROGEN, AMMONIA, TOTAL (MG/L AS N)



LAGUNA MADRE ICWW/PADRE I.CSWY

Station: PAIS0255 Parameter Code: 00665

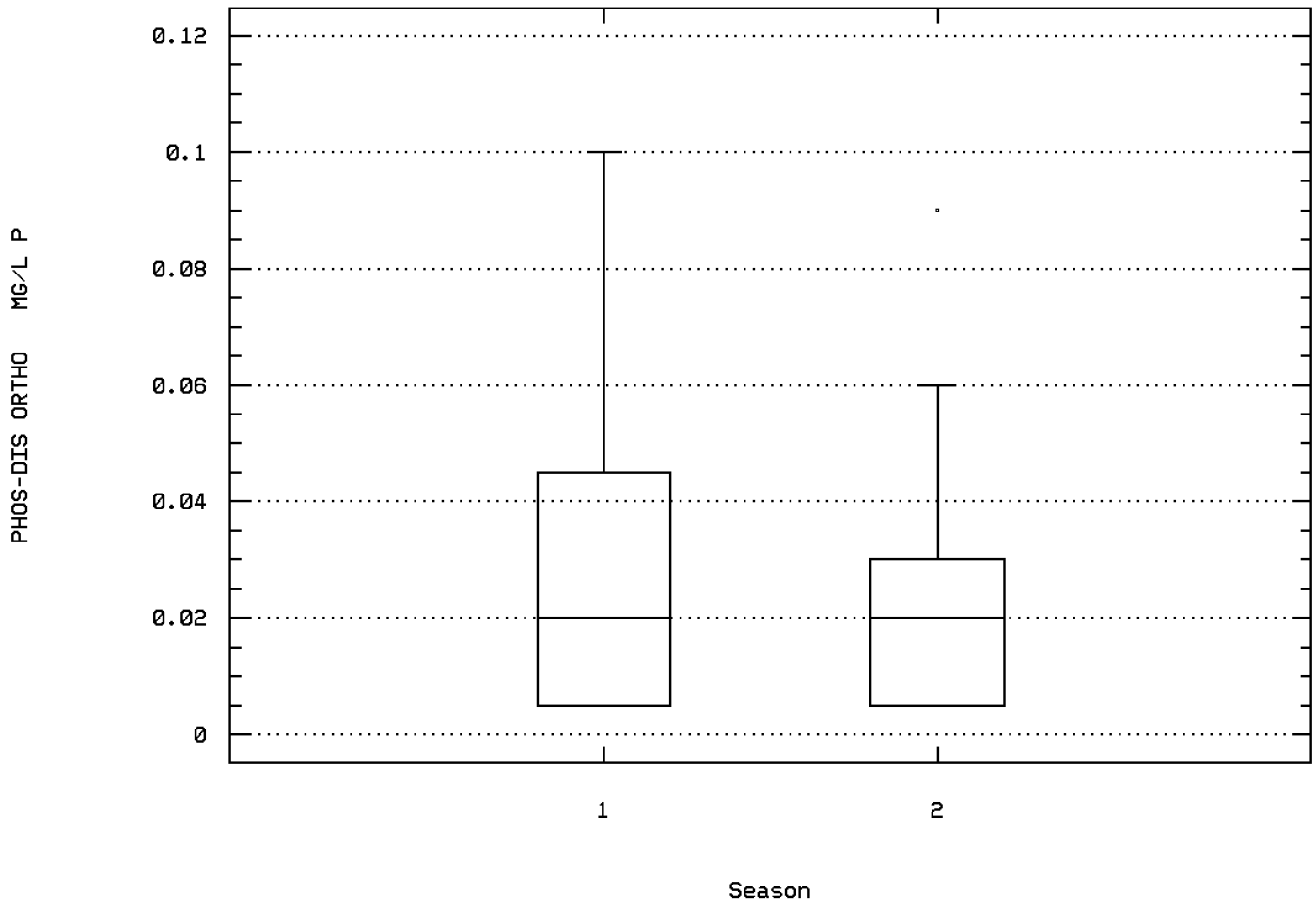
PHOSPHORUS, TOTAL (MG/L AS P)



LAGUNA MADRE ICWW/PADRE I.CSWY

Station: PAIS0255 Parameter Code: 00671

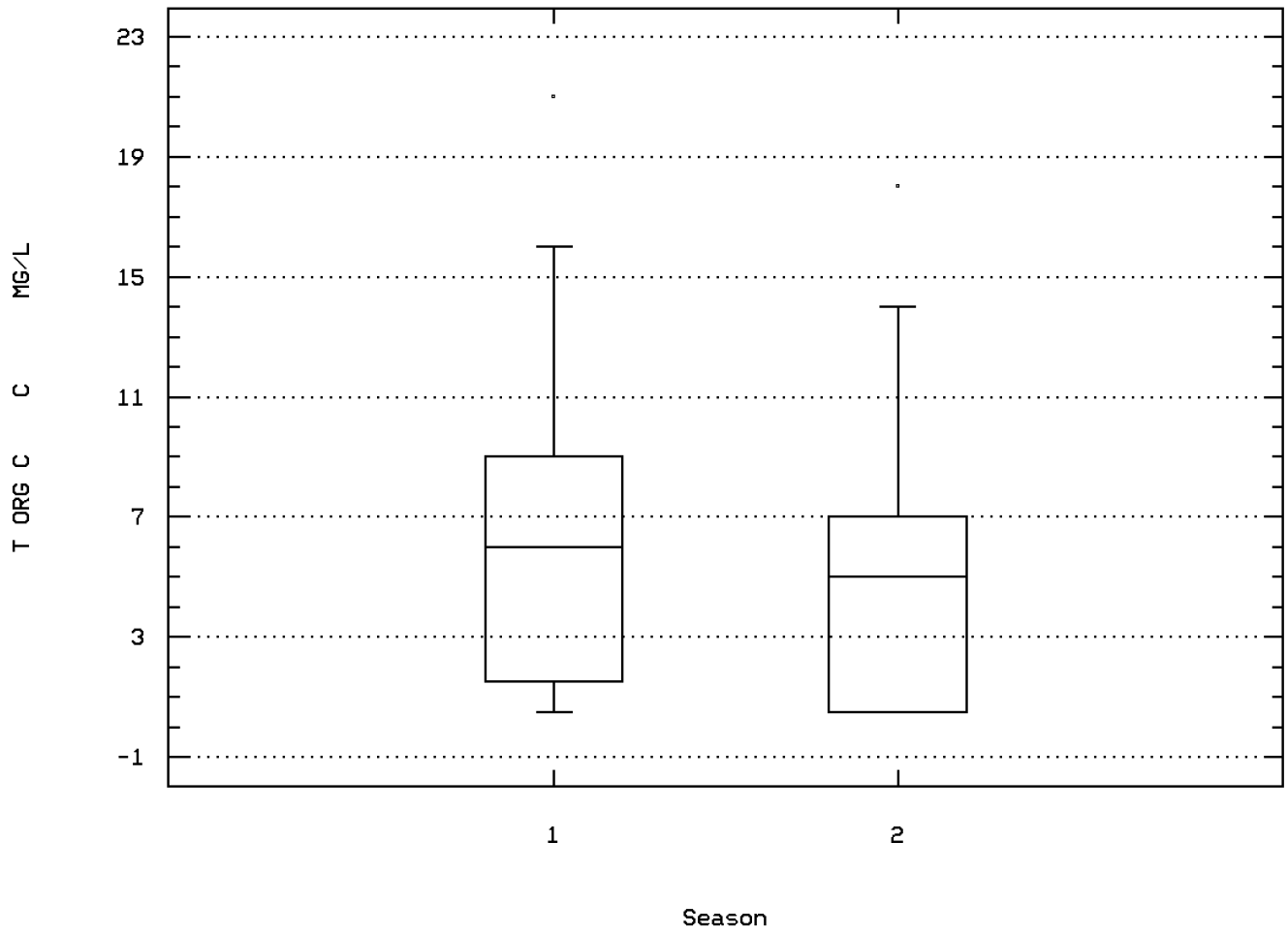
PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (M



LAGUNA MADRE ICWW/PADRE I.CSWY

Station: PAIS0255 Parameter Code: 00680

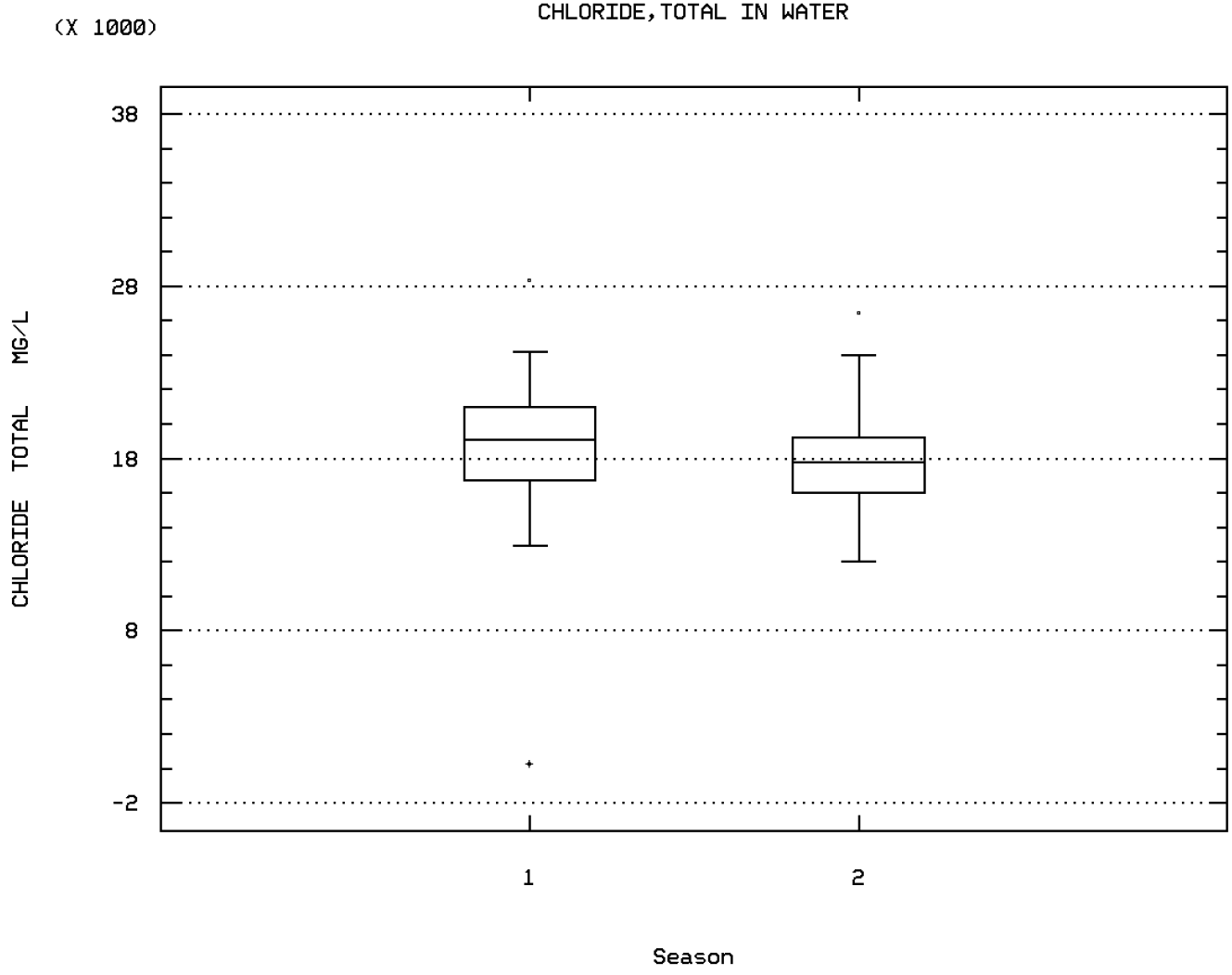
CARBON, TOTAL ORGANIC (MG/L AS C)



LAGUNA MADRE ICWW/PADRE I.CSWY

Station: PAIS0255 Parameter Code: 00940

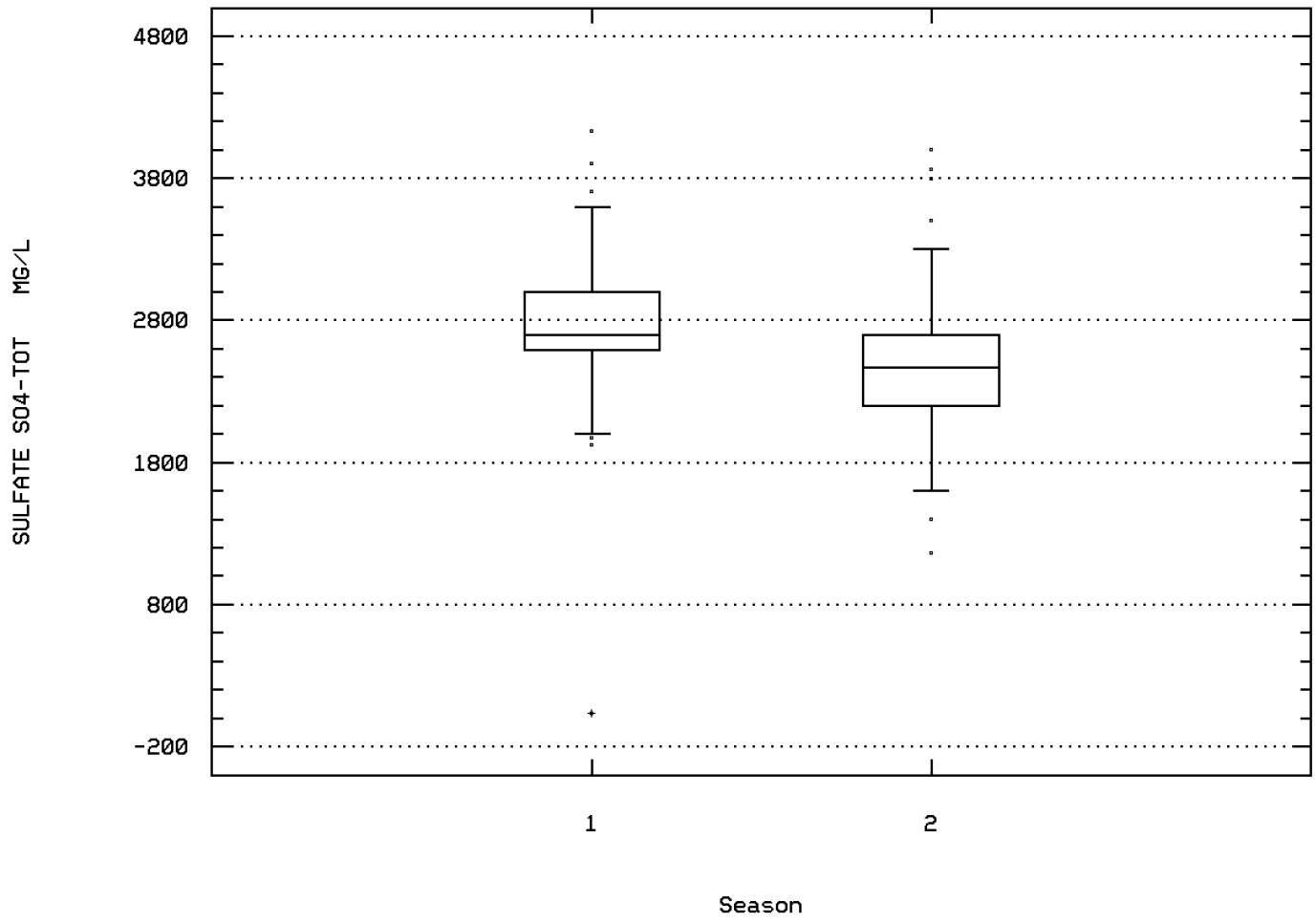
CHLORIDE,TOTAL IN WATER



LAGUNA MADRE ICWW/PADRE I.CSWY

Station: PAIS0255 Parameter Code: 00945

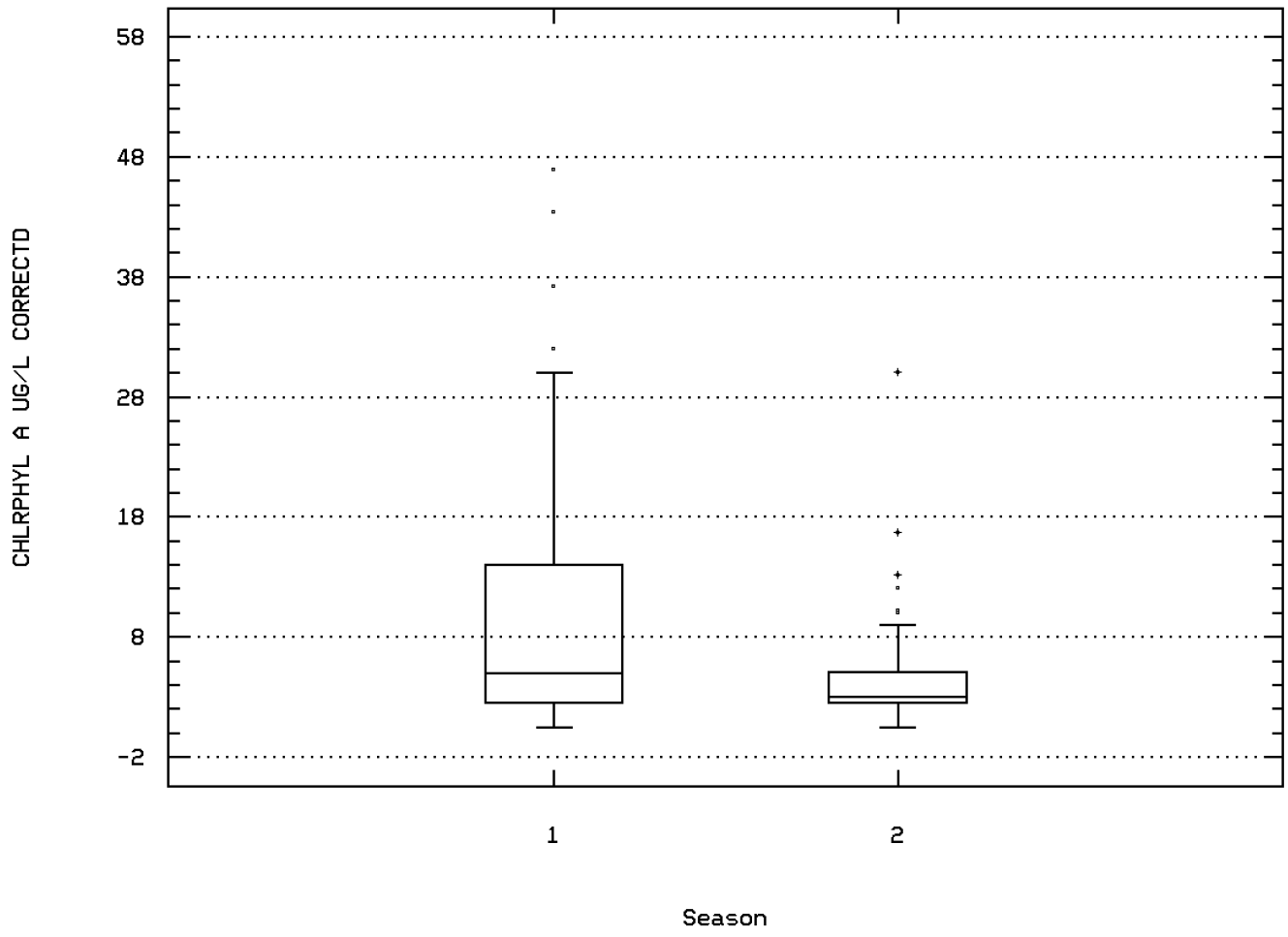
SULFATE, TOTAL (MG/L AS SO4)



LAGUNA MADRE ICWW/PADRE I.CSWY

Station: PAIS0255 Parameter Code: 32211

CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC A



LAGUNA MADRE ICWW/PADRE I.CSWY

Station Inventory for Station: PAIS0256

NPS Station ID: PAIS0256
LAT/LON: 27.601476/ -97.248392
Agency: 11NPSWRD
Date Created: 04/17/99
Location: INLAND OF UTILITY COMPLEX ISLAND
FIPS State/County: 48355 TEXAS/NUECES
Station Type: /TYPA/AMBNT/ESTURY
STORET Station ID(s): PAIS_CEM_13
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 12110203
Depth of Water: 0
Aquifer:
Major Basin: WESTERN GULF
Elevation: 0
Water Body Id:
Minor Basin: NUECES RIVER
ECO Region:
RF1 Index: 12110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 12110208252000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.29
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE CRANE ISLANDS SW TEXAS 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARIES. THIS SITE IS AT A CANAL INLAND OF THE UTILITY COMPLEX ISLAND IN THE PADRE ISLES HOUSING DEVELOPMENT ON THE NORTH END OF NORTH PADRE ISLAND. DATA ARE FROM A REPORT BY COASTAL ECOSYSTEMS MANAGEMENT; "CONTINUING ASSESSMENT OF THE EFFECTS OF PADRE ISLES DEVELOPMENT ON ECOLOGY;" SEPTEMBER 1974. THE PURPOSE OF THIS REPORT WAS TO SURVEY THE GENERAL ENVIRONMENTAL HEALTH OF PADRE ISLES IN ORDER TO ASSESS THE IMPACTS OF DEVELOPMENT. DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0256

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	01/15/73-08/15/74	4	12.	9.75	13.	2.	26.917	5.188	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/15/73-08/15/74	7	19.5	20.686	30.	10.	75.091	8.666	**	**	**	**
00090	OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	01/15/73-09/15/73	4	405.	400.	590.	200.	45800.	214.009	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/15/73-08/15/74	7	43000.	41500.	57000.	33000.	67583333.333	8220.908	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	01/15/73-08/15/74	7	5.6	5.414	8.7	1.5	7.768	2.787	**	**	**	**
00400	PH (STANDARD UNITS)	01/15/73-08/15/74	7	7.9	8.114	8.6	7.8	0.135	0.367	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	01/15/73-08/15/74	7	7.9	8.001	8.6	7.8	0.15	0.387	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/15/73-08/15/74	7	0.013	0.01	0.016	0.003	0.	0.006	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	01/15/73-08/15/74	7	28.2	26.929	38.	20.5	36.059	6.005	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/15/73-08/15/74	8	3.75	3.37	5.	0.47	2.021	1.422	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	01/15/73-08/15/74	8	0.175	0.769	5.	0.02	2.937	1.714	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	01/15/73-08/15/74	8	190.	190.5	287.	99.	4905.429	70.039	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	01/15/73-08/15/74	8	1324.	1480.	2133.	1030.	174238.	417.418	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	01/15/73-08/15/74	7	15600.	14871.429	21000.	11300.	11072380.952	3327.519	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	09/15/73-08/15/74	6	1000.	963.333	2500.	81.	785659.067	886.374	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	09/15/73-08/15/74	4	274.5	323.75	700.	46.	108420.25	329.272	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	09/15/73-08/15/74	4	141.	143.	200.	90.	3622.667	60.189	**	**	**	**
71875	HYDROGEN SULFIDE (MG/L)	01/15/73-01/15/73	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
82537	TURBIDITY,FORWARD SCATTER JTU	01/15/73-08/15/74	5	15.	13.	18.	5.	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 time series plot

EPA Water Quality Criteria Analysis for Station: PAIS0256

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------5/01-10/31---------- Obs	Exceed	Prop.	----------11/01-4/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	7	2	0.29	3	2	0.67	4	0	0.00						
00400	PH	Marine Chronic	8.5	7	2	0.29	3	0	0.00	4	2	0.50						
		Other-Lo Lim.	6.5	7	0	0.00	3	0	0.00	4	0	0.00						
01042	COPPER, TOTAL	Marine Acute	2.9	6	6	1.00	4	4	1.00	2	2	1.00						
01092	ZINC, TOTAL	Marine Acute	95.	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: PAIS0257

NPS Station ID: PAIS0257 LAT/LON: 27.602198/ -97.225003 Agency: 11NPSWRD Date Created: 04/17/99
Location: CANAL BETWEEN GOLF COURSE AND ROAD FIPS State/County: 48355 TEXAS/NUECES
Station Type: /TYPA/AMBNT/ESTURY STORET Station ID(s): PAIS_CEM_04
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 12110203 Depth of Water: 0 Aquifer:
Major Basin: WESTERN GULF Elevation: 0 Water Body Id:
Minor Basin: NUECES RIVER ECO Region:
RF1 Index: 12110203 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 12110208252000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.29 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE CRANE ISLANDS SW; TEXAS 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS OUTSIDE THE PADRE ISLAND NATIONAL SEASHORE BOUNDARIES. THIS SITE IS AT A DREDGED AREA IN A CANAL LOCATED BETWEEN THE GOLF COURSE AND THE UTILITY COMPLEX ROAD IN THE PADRE ISLES HOUSING DEVELOPMENT ON THE NORTH END OF NORTH PADRE ISLAND. DATA ARE FROM A REPORT BY COASTAL ECOSYSTEMS MANAGEMENT; "CONTINUING ASSESSMENT OF THE EFFECTS OF PADRE ISLES DEVELOPMENT ON ECOLOGY;" SEPTEMBER 1974. THE PURPOSE OF THIS REPORT WAS TO SURVEY THE GENERAL ENVIRONMENTAL HEALTH OF PADRE ISLES IN ORDER TO ASSESS THE IMPACTS OF DEVELOPMENT. DATA WERE PROCESSED AND UPLOADED TO STORET BY RONDA BURNS; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: PAIS0257

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/15/74-08/15/74	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/15/73-08/15/74	2	20.9	20.9	29.	12.8	131.22	11.455	**	**	**	**
00090	OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	01/15/73-01/15/73	1	400.	400.	400.	400.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/15/73-08/15/74	2	27950.	27950.	51000.	4900.	1062605000.	32597.623	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	01/15/73-08/15/74	2	7.35	7.35	8.9	5.8	4.805	2.192	**	**	**	**
00400	PH (STANDARD UNITS)	01/15/73-08/15/74	2	8.5	8.5	8.7	8.3	0.08	0.283	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	01/15/73-08/15/74	2	8.455	8.455	8.7	8.3	0.084	0.29	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/15/73-08/15/74	2	0.004	0.004	0.005	0.002	0.	0.002	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	01/15/73-08/15/74	2	18.05	18.05	33.5	2.6	477.405	21.85	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/15/73-08/15/74	3	3.08	3.407	4.5	2.64	0.945	0.972	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	01/15/73-08/15/74	3	0.25	0.363	0.61	0.23	0.046	0.214	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	01/15/73-08/15/74	3	175.	151.667	188.	92.	2712.333	52.08	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	01/15/73-08/15/74	3	1940.	1365.333	2020.	136.	1135045.333	1065.385	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	01/15/73-08/15/74	2	9850.	9850.	18500.	1200.	149645000.	12232.947	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	08/15/74-08/15/74	2	1150.	1150.	1200.	1100.	5000.	70.711	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	08/15/74-08/15/74	2	150.	150.	200.	100.	5000.	70.711	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	08/15/74-08/15/74	2	135.	135.	160.	110.	1250.	35.355	**	**	**	**
71875	HYDROGEN SULFIDE (MG/L)	01/15/73-01/15/73	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
82537	TURBIDITY,FORWARD SCATTER JTU	01/15/73-08/15/74	3	12.	18.333	35.	8.	212.333	14.572	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: PAIS0257

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------5/01-10/31---------- Obs	Exceed	Prop.	----------11/01-4/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	2	0	0.00	1	0	0.00	1	0	0.00						
00400	PH	Marine Chronic	8.5	2	1	0.50	1	0	0.00	1	1	1.00						
		Other-Lo Lim.	6.5	2	0	0.00	1	0	0.00	1	0	0.00						
01042	COPPER, TOTAL	Marine Acute	2.9	2	2	1.00	2	2	1.00									
01092	ZINC, TOTAL	Marine Acute	95.	2	2	1.00	2	2	1.00									

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

EPA Water Quality Criteria Analysis for Entire PAIS Study Area

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	5/01-10/31 Obs	5/01-10/31 Exceed	5/01-10/31 Prop.	11/01-4/30 Obs	11/01-4/30 Exceed	11/01-4/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	626 &	93	0.15	350	61	0.17	276	32	0.12						
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	36	13	0.36	18	7	0.39	18	6	0.33						
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	37510 &	4442	0.12	20233	4180	0.21	17277	262	0.02						
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	2291 &	68	0.03	1373	62	0.05	918	6	0.01						
00400	PH	Marine Chronic	8.5	2185	549	0.25	1297	429	0.33	888	120	0.14						
		Other-Lo Lim.	6.5	2185	2	0.00	1297	2	0.00	888	0	0.00						
00403	PH, LAB	Marine Chronic	8.5	314	58	0.18	158	42	0.27	156	16	0.10						
		Other-Lo Lim.	6.5	314	0	0.00	158	0	0.00	156	0	0.00						
00406	PH, FIELD	Fresh Chronic	9.	46	4	0.09	26	4	0.15	20	0	0.00						
		Marine Chronic	8.5	9531	3109	0.33	5564	2942	0.53	3967	167	0.04						
		Other-Lo Lim.	6.5	9577	0	0.00	5590	0	0.00	3987	0	0.00						
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	7	0	0.00	7	0	0.00									
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	7	0	0.00	7	0	0.00									
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	6	1	0.17	3	1	0.33	3	0	0.00						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	2	0	0.00	1	0	0.00	1	0	0.00						
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						
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	7	4	0.57	7	4	0.57									
		Drinking Water	250.	7	6	0.86	7	6	0.86									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	2	0	0.00	1	0	0.00	1	0	0.00						
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	3	0	0.00	3	0	0.00									
		Drinking Water	50.	3	0	0.00	3	0	0.00									
		Marine Acute	69.	8	0	0.00	8	0	0.00									
01002	ARSENIC, TOTAL	Marine Acute	69.	10	0	0.00	10	0	0.00									
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	1 &	1	1.00	1	1	1.00									
		Drinking Water	5.	1 &	1	1.00	1	1	1.00									
		Marine Acute	43.	22	0	0.00	22	0	0.00									
01027	CADMIUM, TOTAL	Marine Acute	43.	12	0	0.00	12	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	3	0	0.00	3	0	0.00									
01032	CHROMIUM, HEXAVALENT	Marine Acute	1100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	3	1	0.33	3	1	0.33									
		Drinking Water	1300.	3	0	0.00	3	0	0.00									
		Marine Acute	2.9	22	22	1.00	22	22	1.00									
01042	COPPER, TOTAL	Marine Acute	2.9	26 &	26	1.00	21	21	1.00	5	5	1.00						
01049	LEAD, DISSOLVED	Fresh Acute	82.	3	0	0.00	3	0	0.00									
		Drinking Water	15.	3	0	0.00	3	0	0.00									
		Marine Acute	220.	22	0	0.00	22	0	0.00									
01051	LEAD, TOTAL	Marine Acute	220.	12	0	0.00	12	0	0.00									
01065	NICKEL, DISSOLVED	Marine Acute	75.	7	0	0.00	7	0	0.00									
01067	NICKEL, TOTAL	Marine Acute	75.	8	5	0.63	8	5	0.63									
01077	SILVER, TOTAL	Marine Acute	0.12	8	8	1.00	8	8	1.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	3	1	0.33	3	1	0.33									
		Drinking Water	5000.	3	0	0.00	3	0	0.00									
		Marine Acute	95.	32	1	0.03	32	1	0.03									
01092	ZINC, TOTAL	Marine Acute	95.	24	16	0.67	24	16	0.67									
01147	SELENIUM, TOTAL	Marine Acute	300.	4	0	0.00	4	0	0.00									
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	198	1	0.01	119	1	0.01	79	0	0.00						
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	19	1	0.05	13	1	0.08	6	0	0.00						
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	274	1	0.00	147	1	0.01	127	0	0.00						
39330	ALDRIN IN WHOLE WATER SAMPLE	Marine Acute	1.3	8	0	0.00	8	0	0.00									
39340	GAMMA-BHC(LINDANE), WHOLE WATER	Marine Acute	0.16	6	0	0.00	6	0	0.00									
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATE	Marine Acute	0.09	6	0	0.00	6	0	0.00									
39360	DDD IN WHOLE WATER SAMPLE	Marine Acute	3.6	8	0	0.00	8	0	0.00									
39365	DDE IN WHOLE WATER SAMPLE	Marine Acute	14.	8	0	0.00	8	0	0.00									
39370	DDT IN WHOLE WATER SAMPLE	Marine Acute	0.13	8	0	0.00	8	0	0.00									
39380	DIELDRIN IN WHOLE WATER SAMPLE	Marine Acute	0.71	8	0	0.00	8	0	0.00									
39390	ENDRIN IN WHOLE WATER SAMPLE	Marine Acute	0.037	8	0	0.00	8	0	0.00									
39400	TOXAPHENE IN WHOLE WATER SAMPLE	Marine Acute	0.21	3	0	0.00	3	0	0.00									
39410	HEPTACHLOR IN WHOLE WATER SAMPLE	Marine Acute	0.053	8	0	0.00	8	0	0.00									
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE	Marine Acute	0.053	8	0	0.00	8	0	0.00									
39782	LINDANE IN WHOLE WATER SAMPLE	Marine Acute	0.16	3	0	0.00	3	0	0.00									

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

EPA Water Quality Criteria Analysis for Entire PAIS Study Area

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------5/01-10/31---------- Obs	Exceed	Prop.	----------11/01-4/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	3	0	0.00	3	0	0.00									
		Drinking Water	2.	3	0	0.00	3	0	0.00									
		Marine Acute	2.1	7	0	0.00	7	0	0.00									
71900	MERCURY, TOTAL	Marine Acute	2.1	12	1	0.08	12	1	0.08									

& - 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 PAIS 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 PAIS Study Area Exist for These Groups:

Alkalinity		Total Obs.	01/01/85 to 09/23/98	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	456	215	211	30	28
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	2	2	0	0	2
00440	BICARBONATE ION (MG/L AS HCO3)	83	0	38	45	26
00445	CARBONATE ION (MG/L AS CO3)	34	0	30	4	13
		575	217	279	79	69 (38)[1]

pH		Total Obs.	01/01/85 to 09/23/98	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00400	PH (STANDARD UNITS)	2188	510	864	814	62
00403	PH, LAB (STANDARD UNITS)	353	52	195	106	14
00406	PH, FIELD (STANDARD UNITS)	9577	9316	7	254	40
		12118	9878	1066	1174	116(107)[1]

Conductivity		Total Obs.	01/01/85 to 09/23/98	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	45483	44721	450	312	49
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	1482	49	664	769	59
00480	SALINITY - PARTS PER THOUSAND	45223	44497	125	601	148
		92188	89267	1239	1682	256(222)[1]

Dissolved Oxygen		Total Obs.	01/01/85 to 09/23/98	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE (MG/L)	37514	37209	47	258	34
00300	OXYGEN, DISSOLVED (MG/L)	2295	575	846	874	70
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION	1367	0	472	895	60
		41176	37784	1365	2027	164(103)[1]

Water Temperature		Total Obs.	01/01/85 to 09/23/98	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	46846	44657	1032	1157	188
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	566	41	410	115	16
		47412	44698	1442	1272	204(193)[1]

Flow		Total Obs.	01/01/85 to 09/23/98	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00061	FLOW, STREAM, INSTANTANEOUS CFS	1	1	0	0	1
		1	1	0	0	1 (1)[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 09/23/98	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00070	TURBIDITY, (JACKSON CANDLE UNITS)	670	0	201	469	48
00076	TURBIDITY, HACH TURBIDIMETER (FORMAZIN TURB UNIT)	36	36	0	0	3
00077	TRANSPARENCY, SECCHI DISC (INCHES)	199	89	110	0	6
00078	TRANSPARENCY, SECCHI DISC (METERS)	530	157	152	221	61
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	475	215	194	66	8
		1910	497	657	756	126 (87)[1]

Nitrate/Nitrogen		Total Obs.	01/01/85 to 09/23/98	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00600	NITROGEN, TOTAL (MG/L AS N)	97	0	87	10	15
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	103	0	93	10	15
00607	NITROGEN, ORGANIC, DISSOLVED (MG/L AS N)	6	0	6	0	6
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	7	0	7	0	7
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	710	215	310	185	39
00612	AMMONIA, UNIONZED (MG/L AS N)	37	0	0	37	4
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	7	0	7	0	7
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	715	180	290	245	49
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	6	0	6	0	6
00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	175	66	99	10	26
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	170	35	101	34	25
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	49	0	32	17	16
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	17	0	0	17	9
71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	17	0	0	17	9
		2116	496	1038	582	233 (68)[1]

Phosphate/Phosphorus		Total Obs.	01/01/85 to 09/23/98	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	351	27	203	121	29
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	359	21	185	153	39
00665	PHOSPHORUS, TOTAL (MG/L AS P)	731	215	307	209	44
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	543	211	184	148	41
70505	PHOSPHORUS, TOTAL, COLORIMETRIC METHOD (MG/L AS P)	5	0	5	0	3
70507	PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	5	0	5	0	3
		1994	474	889	631	159 (63)[1]

Chlorophyll		Total Obs.	01/01/85 to 09/23/98	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
32211	CHLOROPHYLL A (UG/L) SPECTROPHOTOMETRIC ACID METH.	425	193	184	48	6
32217	CHLOROPHYLL A (UG/L) FLUOROMETRIC UNCORRECTED	2	2	0	0	2
32230	CHLOROPHYLL A (MG/L)	48	0	9	39	12
		475	195	193	87	20 (20)[1]

Sulfates/Total Dissolved Solids/Hardness		Total Obs.	01/01/85 to 09/23/98	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00900	HARDNESS, TOTAL (MG/L AS CACO3)	79	0	46	33	13
00945	SULFATE, TOTAL (MG/L AS SO4)	560	215	240	105	32
00946	SULFATE, DISSOLVED (MG/L AS SO4)	2	0	0	2	2
70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), (MG/L)	84	50	34	0	15
		725	265	320	140	62 (39)[1]

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

Bacteria		Total Obs.	01/01/85 to 09/23/98	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
31501	COLIFORM, TOT, MEMBRANE FILTER,IMMED.M-ENDOMED,35C	198	3	156	39	31
31505	COLIFORM, TOT, MPN, CONFIRMED TEST,35C(TUBE 31506)	19	0	0	19	4
31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5C	274	197	44	33	29
31673	FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR	1	0	1	0	1
61215	FECAL COLIFORM, GENERAL #/100ML	3	3	0	0	1
		495	203	201	91	66 (33)[1]

Toxic Elements		Total Obs.	01/01/85 to 09/23/98	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
01000	ARSENIC, DISSOLVED (UG/L AS AS)	11	3	1	7	9
01002	ARSENIC, TOTAL (UG/L AS AS)	10	0	3	7	9
01025	CADMIUM, DISSOLVED (UG/L AS CD)	25	3	1	21	17
01027	CADMIUM, TOTAL (UG/L AS CD)	12	0	3	9	9
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	23	3	1	19	17
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	1	0	0	1	1
01034	CHROMIUM, TOTAL (UG/L AS CR)	10	0	3	7	9
01040	COPPER, DISSOLVED (UG/L AS CU)	25	3	1	21	17
01042	COPPER, TOTAL (UG/L AS CU)	29	0	3	26	13
01049	LEAD, DISSOLVED (UG/L AS PB)	25	3	1	21	17
01051	LEAD, TOTAL (UG/L AS PB)	12	0	3	9	9
71890	MERCURY, DISSOLVED (UG/L AS HG)	10	3	1	6	9
71900	MERCURY, TOTAL (UG/L AS HG)	12	0	3	9	9
01065	NICKEL, DISSOLVED (UG/L AS NI)	7	0	1	6	6
01067	NICKEL, TOTAL (UG/L AS NI)	8	0	3	5	7
01147	SELENIUM, TOTAL (UG/L AS SE)	4	0	0	4	4
01077	SILVER, TOTAL (UG/L AS AG)	8	0	3	5	7
01090	ZINC, DISSOLVED (UG/L AS ZN)	35	3	1	31	22
01092	ZINC, TOTAL (UG/L AS ZN)	24	0	3	21	13
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	8	0	0	8	7
39340	GAMMA-BHC(LINDANE), WHOLE WATER (UG/L)	6	0	0	6	5
39782	LINDANE IN WHOLE WATER SAMPLE (UG/L)	3	0	0	3	3
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATER (UG/L)	6	0	0	6	5
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	8	0	0	8	7
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	8	0	0	8	7
39360	DDD IN WHOLE WATER SAMPLE (UG/L)	8	0	0	8	7
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	8	0	0	8	7
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	8	0	0	8	7
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	8	0	0	8	7
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	8	0	0	8	7
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	3	0	0	3	3
		373	21	35	317	276 (34)[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	575	217	37.7	38	15.0	15.1	08/20/68-07/21/98	19.2
pH	12118	9878	81.5	107	42.3	113.3	08/20/68-07/21/98	405.0
Conductivity	92188	89267	96.8	222	87.7	415.3	05/01/41-09/23/98	1606.1
Dissolved Oxygen	41176	37784	91.8	103	40.7	399.8	10/03/67-08/25/98	1332.7
Water Temperature	47412	44698	94.3	193	76.3	245.7	08/01/57-09/23/98	1152.3
Flow	1	1	100.0	1	0.4	1.0	02/12/90-02/12/90	1.0[1]
Clarity/Turbidity	1910	497	26.0	87	34.4	22.0	08/20/68-07/21/98	63.8
Nitrate/Nitrogen	2116	496	23.4	68	26.9	31.1	08/20/68-07/21/98	70.7
Phosphate/Phosphorus	1994	474	23.8	63	24.9	31.7	08/20/68-07/21/98	66.6
Chlorophyll	475	195	41.1	20	7.9	23.8	02/23/72-07/21/98	18.0
Sulfates/Total Dissolved Solids/Hardness	725	265	36.6	39	15.4	18.6	08/20/68-07/21/98	24.2
Bacteria	495	203	41.0	33	13.0	15.0	10/07/70-07/29/96	19.2
Toxic Elements	373	21	5.6	34	13.4	11.0	08/20/68-09/15/89	17.7

[1]Period of record for this parameter group was less than one year. Value shown is the total observations.

Water Quality Observations
Outside STORET Edit Criteria for PAIS^

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
PAIS0003	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	680822	1435	61000.0000000	11NPSWRD	PAIS_TWDB_20-1	
PAIS0003	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	680822	1435	61000.0000000	11NPSWRD	PAIS_TWDB_20-1	
PAIS0004	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	680822	1435	61000.0000000	112WRD	263115097213100	
PAIS0004	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	680822	1436	61000.0000000	112WRD	263115097213100	
PAIS0006	00480	SALINITY - PARTS PER THOUSAND	540815		42.0000000	11NPSWRD	PAIS_BREU_22	
PAIS0006	00480	SALINITY - PARTS PER THOUSAND	541215		41.1000000	11NPSWRD	PAIS_BREU_22	
PAIS0006	00480	SALINITY - PARTS PER THOUSAND	550515		46.0000000	11NPSWRD	PAIS_BREU_22	
PAIS0006	00480	SALINITY - PARTS PER THOUSAND	550615		44.6000000	11NPSWRD	PAIS_BREU_22	
PAIS0006	00480	SALINITY - PARTS PER THOUSAND	550815		45.2000000	11NPSWRD	PAIS_BREU_22	
PAIS0006	00480	SALINITY - PARTS PER THOUSAND	560615		40.6000000	11NPSWRD	PAIS_BREU_22	
PAIS0006	00480	SALINITY - PARTS PER THOUSAND	560815		47.5000000	11NPSWRD	PAIS_BREU_22	
PAIS0006	00480	SALINITY - PARTS PER THOUSAND	560915		46.6000000	11NPSWRD	PAIS_BREU_22	
PAIS0007	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	680820	1525	61000.0000000	11NPSWRD	PAIS_TWDB_19-4	
PAIS0007	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	680820	1525	61000.0000000	11NPSWRD	PAIS_TWDB_19-4	
PAIS0007	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690911	0920	63000.0000000	11NPSWRD	PAIS_TWDB_19-4	
PAIS0007	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690911	0920	66000.0000000	11NPSWRD	PAIS_TWDB_19-4	
PAIS0007	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	680820	1525	1360.0000000	11NPSWRD	PAIS_TWDB_19-4	
PAIS0007	00940	CHLORIDE,TOTAL IN WATER MG/L	680820	1525	22500.0000000	11NPSWRD	PAIS_TWDB_19-4	
PAIS0007	00945	SULFATE, TOTAL (MG/L AS SO4)	680820	1525	3180.0000000	11NPSWRD	PAIS_TWDB_19-4	
PAIS0009	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690911	0945	63000.0000000	11NPSWRD	PAIS_TWDB_19-3	
PAIS0009	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690911	0945	63000.0000000	11NPSWRD	PAIS_TWDB_19-3	
PAIS0009	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690911	0945	64000.0000000	11NPSWRD	PAIS_TWDB_19-3	
PAIS0009	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690911	0945	66000.0000000	11NPSWRD	PAIS_TWDB_19-3	
PAIS0010	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690911	0945	63000.0000000	112WRD	263331097242100	
PAIS0010	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690911	0946	63000.0000000	112WRD	263331097242100	
PAIS0010	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690911	0947	64000.0000000	112WRD	263331097242100	
PAIS0010	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690911	0948	66000.0000000	112WRD	263331097242100	
PAIS0011	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	680820	1630	64000.0000000	11NPSWRD	PAIS_TWDB_19-2	
PAIS0011	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	680820	1630	64000.0000000	11NPSWRD	PAIS_TWDB_19-2	
PAIS0011	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	680820	1630	64000.0000000	11NPSWRD	PAIS_TWDB_19-2	
PAIS0011	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	680820	1630	64000.0000000	11NPSWRD	PAIS_TWDB_19-2	
PAIS0011	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690911	1110	62000.0000000	11NPSWRD	PAIS_TWDB_19-2	
PAIS0011	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	680820	1630	65000.0000000	11NPSWRD	PAIS_TWDB_19-2	
PAIS0011	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	680820	1630	1680.0000000	11NPSWRD	PAIS_TWDB_19-2	
PAIS0011	00940	CHLORIDE,TOTAL IN WATER MG/L	680820	1630	24400.0000000	11NPSWRD	PAIS_TWDB_19-2	
PAIS0011	00945	SULFATE, TOTAL (MG/L AS SO4)	680820	1630	3360.0000000	11NPSWRD	PAIS_TWDB_19-2	
PAIS0012	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	680820	1630	64000.0000000	112WRD	263344097200500	
PAIS0012	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	680820	1631	64000.0000000	112WRD	263344097200500	

^To conserve paper, this table does not include 18,083 observations for Specific Conductance and Salinity collected at an estuary station in Bird Island Basin (PAIS 0191) that was equipped with a data logging instrument. All 18,083 observations were retained and appear in other tables in the report. Refer to the PAISBAD.ALL file compressed in PAISTABS.ZIP to view all observations in the PAIS study area that were outside the STORET Edit Criteria.

Water Quality Observations
Outside STORET Edit Criteria for PAIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
PAIS0012	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	680820	1632	64000.0000000	112WRD	263344097200500	
PAIS0012	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	680820	1633	64000.0000000	112WRD	263344097200500	
PAIS0012	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690911	1113	62000.0000000	112WRD	263344097200500	
PAIS0012	00900	HARDNESS, TOTAL (MG/L AS CACO3)	680820	1633	8200.0000000	112WRD	263344097200500	
PAIS0012	00900	HARDNESS, TOTAL (MG/L AS CACO3)	760210	1440	6100.0000000	112WRD	263344097200500	
PAIS0012	00900	HARDNESS, TOTAL (MG/L AS CACO3)	760825	1445	6500.0000000	112WRD	263344097200500	
PAIS0012	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	680820	1633	1680.0000000	112WRD	263344097200500	
PAIS0012	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	760210	1440	1200.0000000	112WRD	263344097200500	
PAIS0012	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	760825	1445	1300.0000000	112WRD	263344097200500	
PAIS0012	00930	SODIUM, DISSOLVED (MG/L AS NA)	751030	0825	7900.0000000	112WRD	263344097200500	
PAIS0012	00930	SODIUM, DISSOLVED (MG/L AS NA)	760210	1440	11000.0000000	112WRD	263344097200500	
PAIS0012	00930	SODIUM, DISSOLVED (MG/L AS NA)	760825	1445	12000.0000000	112WRD	263344097200500	
PAIS0012	00931	SODIUM ADSORPTION RATIO	751030	0825	55.0000000	112WRD	263344097200500	
PAIS0012	00931	SODIUM ADSORPTION RATIO	760210	1440	61.0000000	112WRD	263344097200500	
PAIS0012	00931	SODIUM ADSORPTION RATIO	760825	1445	65.0000000	112WRD	263344097200500	
PAIS0012	00935	POTASSIUM, DISSOLVED (MG/L AS K)	751030	0825	310.0000000	112WRD	263344097200500	
PAIS0012	00935	POTASSIUM, DISSOLVED (MG/L AS K)	760210	1440	440.0000000	112WRD	263344097200500	
PAIS0012	00935	POTASSIUM, DISSOLVED (MG/L AS K)	760825	1445	420.0000000	112WRD	263344097200500	
PAIS0012	00940	CHLORIDE,TOTAL IN WATER MG/L	680820	1633	24400.0000000	112WRD	263344097200500	
PAIS0012	00945	SULFATE, TOTAL (MG/L AS SO4)	680820	1633	3360.0000000	112WRD	263344097200500	
PAIS0012	00945	SULFATE, TOTAL (MG/L AS SO4)	760210	1440	2800.0000000	112WRD	263344097200500	
PAIS0012	00945	SULFATE, TOTAL (MG/L AS SO4)	760825	1445	2900.0000000	112WRD	263344097200500	
PAIS0013	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	690911	1020	1320.0000000	11NPSWRD	PAIS_TWDB_19-1	
PAIS0013	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	701007	0905	1300.0000000	11NPSWRD	PAIS_TWDB_19-1	
PAIS0013	00945	SULFATE, TOTAL (MG/L AS SO4)	690911	1020	2700.0000000	11NPSWRD	PAIS_TWDB_19-1	
PAIS0015	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	720609		63112.0000000	11NPSWRD	PAIS_2491_500	
PAIS0015	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	720912		85176.0000000	11NPSWRD	PAIS_2491_500	
PAIS0015	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	721220		71232.0000000	11NPSWRD	PAIS_2491_500	
PAIS0015	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	730911		68096.0000000	11NPSWRD	PAIS_2491_500	
PAIS0015	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	740325		62720.0000000	11NPSWRD	PAIS_2491_500	
PAIS0015	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	740619		68544.0000000	11NPSWRD	PAIS_2491_500	
PAIS0015	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	740917		79296.0000000	11NPSWRD	PAIS_2491_500	
PAIS0016	00900	HARDNESS, TOTAL (MG/L AS CACO3)	690911	1024	6400.0000000	112WRD	263354097163300	
PAIS0016	00900	HARDNESS, TOTAL (MG/L AS CACO3)	701007	0908	6300.0000000	112WRD	263354097163300	
PAIS0016	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	690911	1024	1320.0000000	112WRD	263354097163300	
PAIS0016	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	701007	0908	1300.0000000	112WRD	263354097163300	
PAIS0016	00945	SULFATE, TOTAL (MG/L AS SO4)	690911	1024	2700.0000000	112WRD	263354097163300	
PAIS0018	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	730911	1100	64260.0000000	21TXWQB	13469	
PAIS0018	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690909	1100	72576.0000000	21TXWQB	13469	
PAIS0018	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	700113	1530	65464.0000000	21TXWQB	13469	
PAIS0018	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	700429	0730	82656.0000000	21TXWQB	13469	
PAIS0018	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	700723	1000	76608.0000000	21TXWQB	13469	
PAIS0018	00095	SPECIFIC CONDUCTANCE (UMHOS/CM 25C)	710511	1200	78120.0000000	21TXWQB	13469	

Water Quality Observations
Outside STORET Edit Criteria for PAIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
PAIS0018	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	710818	0930	78400.0000000	21TXWQB	13469	
PAIS0018	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	711126	1450	67032.0000000	21TXWQB	13469	
PAIS0018	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	720223	1000	71344.0000000	21TXWQB	13469	
PAIS0018	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	720608	1600	72520.0000000	21TXWQB	13469	
PAIS0018	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	720912	1700	77952.0000000	21TXWQB	13469	
PAIS0018	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	721220	1300	66752.0000000	21TXWQB	13469	
PAIS0018	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	730321	1020	67200.0000000	21TXWQB	13469	
PAIS0018	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	730711	1330	76608.0000000	21TXWQB	13469	
PAIS0018	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	730911	1100	62720.0000000	21TXWQB	13469	
PAIS0018	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	740619	1035	76160.0000000	21TXWQB	13469	
PAIS0018	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	740917	1215	79291.0000000	21TXWQB	13469	
PAIS0018	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	741204	1225	66304.0000000	21TXWQB	13469	
PAIS0018	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	750626	1045	76608.0000000	21TXWQB	13469	
PAIS0018	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	751204	1240	68600.0000000	21TXWQB	13469	
PAIS0018	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	760329	1100	65464.0000000	21TXWQB	13469	
PAIS0018	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	760628	1010	76608.0000000	21TXWQB	13469	
PAIS0018	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	780206	1500	65464.0000000	21TXWQB	13469	
PAIS0018	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	780606	1025	71680.0000000	21TXWQB	13469	
PAIS0018	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	780818	0930	80136.0000000	21TXWQB	13469	
PAIS0018	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	780906	1550	75264.0000000	21TXWQB	13469	
PAIS0018	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	781213	1505	70336.0000000	21TXWQB	13469	
PAIS0018	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	790213	0750	69440.0000000	21TXWQB	13469	
PAIS0018	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	790912	1115	64512.0000000	21TXWQB	13469	
PAIS0018	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	800212	1045	62720.0000000	21TXWQB	13469	
PAIS0018	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	800513	1430	78120.0000000	21TXWQB	13469	
PAIS0018	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	800805	1005	79632.0000000	21TXWQB	13469	
PAIS0018	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	801120	1235	69888.0000000	21TXWQB	13469	
PAIS0018	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	830419	0910	75600.0000000	21TXWQB	13469	
PAIS0018	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	830726	1100	77000.0000000	21TXWQB	13469	
PAIS0018	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	831013	0839	64512.0000000	21TXWQB	13469	
PAIS0018	00945	SULFATE, TOTAL (MG/L AS SO4)	700723	1000	2730.0000000	21TXWQB	13469	
PAIS0018	00945	SULFATE, TOTAL (MG/L AS SO4)	710511	1200	2640.0000000	21TXWQB	13469	
PAIS0018	00945	SULFATE, TOTAL (MG/L AS SO4)	710818	0930	2640.0000000	21TXWQB	13469	
PAIS0018	00945	SULFATE, TOTAL (MG/L AS SO4)	721220	1300	2520.0000000	21TXWQB	13469	
PAIS0018	00945	SULFATE, TOTAL (MG/L AS SO4)	730711	1330	2760.0000000	21TXWQB	13469	
PAIS0018	00945	SULFATE, TOTAL (MG/L AS SO4)	740619	1035	2760.0000000	21TXWQB	13469	
PAIS0018	00945	SULFATE, TOTAL (MG/L AS SO4)	740917	1215	2950.0000000	21TXWQB	13469	
PAIS0018	00945	SULFATE, TOTAL (MG/L AS SO4)	750626	1045	2690.0000000	21TXWQB	13469	
PAIS0018	00945	SULFATE, TOTAL (MG/L AS SO4)	751204	1240	2570.0000000	21TXWQB	13469	
PAIS0018	00945	SULFATE, TOTAL (MG/L AS SO4)	760628	1010	2800.0000000	21TXWQB	13469	
PAIS0018	00945	SULFATE, TOTAL (MG/L AS SO4)	780606	1025	2780.0000000	21TXWQB	13469	
PAIS0018	00945	SULFATE, TOTAL (MG/L AS SO4)	780818	0930	3070.0000000	21TXWQB	13469	

Water Quality Observations
Outside STORET Edit Criteria for PAIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
PAIS0018	00945	SULFATE, TOTAL (MG/L AS SO4)	780906	1550	2990.0000000	21TXWQB	13469	
PAIS0018	00945	SULFATE, TOTAL (MG/L AS SO4)	781213	1505	2550.0000000	21TXWQB	13469	
PAIS0018	00945	SULFATE, TOTAL (MG/L AS SO4)	800513	1430	2920.0000000	21TXWQB	13469	
PAIS0018	00945	SULFATE, TOTAL (MG/L AS SO4)	800805	1005	2890.0000000	21TXWQB	13469	
PAIS0018	00945	SULFATE, TOTAL (MG/L AS SO4)	820714	0920	2700.0000000	21TXWQB	13469	
PAIS0018	00945	SULFATE, TOTAL (MG/L AS SO4)	830419	0910	2600.0000000	21TXWQB	13469	
PAIS0018	00945	SULFATE, TOTAL (MG/L AS SO4)	830726	1100	2688.0000000	21TXWQB	13469	
PAIS0018	00945	SULFATE, TOTAL (MG/L AS SO4)	840411	0900	2700.0000000	21TXWQB	13469	
PAIS0018	00945	SULFATE, TOTAL (MG/L AS SO4)	840814	1000	2800.0000000	21TXWQB	13469	
PAIS0018	00945	SULFATE, TOTAL (MG/L AS SO4)	850219	1005	2700.0000000	21TXWQB	13469	
PAIS0018	00945	SULFATE, TOTAL (MG/L AS SO4)	861009	1500	2880.0000000	21TXWQB	13469	
PAIS0018	00945	SULFATE, TOTAL (MG/L AS SO4)	880720	0710	2820.0000000	21TXWQB	13469	
PAIS0018	00945	SULFATE, TOTAL (MG/L AS SO4)	890817	0745	3210.0000000	21TXWQB	13469	
PAIS0018	00945	SULFATE, TOTAL (MG/L AS SO4)	900531	0820	2653.0000000	21TXWQB	13469	
PAIS0018	00945	SULFATE, TOTAL (MG/L AS SO4)	900823	0820	2950.0000000	21TXWQB	13469	
PAIS0018	00945	SULFATE, TOTAL (MG/L AS SO4)	910515	0745	23500.0000000	21TXWQB	13469	
PAIS0018	00945	SULFATE, TOTAL (MG/L AS SO4)	910814	0700	2900.0000000	21TXWQB	13469	
PAIS0018	00945	SULFATE, TOTAL (MG/L AS SO4)	920520	0820	2790.0000000	21TXWQB	13469	
PAIS0018	00945	SULFATE, TOTAL (MG/L AS SO4)	930527	0800	2740.0000000	21TXWQB	13469	
PAIS0018	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	780206	1500	32500.0000000	21TXWQB	13469	
PAIS0018	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	780606	1025	34900.0000000	21TXWQB	13469	
PAIS0018	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	780906	1550	35500.0000000	21TXWQB	13469	
PAIS0018	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	781213	1505	33900.0000000	21TXWQB	13469	
PAIS0018	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	790213	0750	34100.0000000	21TXWQB	13469	
PAIS0018	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	790912	1115	30320.0000000	21TXWQB	13469	
PAIS0018	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	940830	1137	42000.0000000	21TXWQB	13469	
PAIS0019	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	800805	1040	60500.0000000	21TXWQB	13448	
PAIS0019	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	800805	1040	64000.0000000	21TXWQB	13448	
PAIS0019	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	850710	1400	63500.0000000	21TXWQB	13448	
PAIS0019	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	860708	1230	60700.0000000	21TXWQB	13448	
PAIS0019	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	860708	1230	65500.0000000	21TXWQB	13448	
PAIS0019	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	861009	1600	60800.0000000	21TXWQB	13448	
PAIS0019	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	861009	1600	61100.0000000	21TXWQB	13448	
PAIS0019	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	861009	1600	61500.0000000	21TXWQB	13448	
PAIS0019	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	861016	1900	61300.0000000	21TXWQB	13448	
PAIS0019	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	900124	0655	63800.0000000	21TXWQB	13448	
PAIS0019	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	900124	0655	64400.0000000	21TXWQB	13448	
PAIS0019	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	901016	0745	60700.0000000	21TXWQB	13448	
PAIS0019	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	901016	0745	63900.0000000	21TXWQB	13448	
PAIS0019	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	960716	1020	60220.0000000	21TXWQB	13448	
PAIS0019	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM 25C)	960716	1020	60775.0000000	21TXWQB	13448	

Water Quality Observations
Outside STORET Edit Criteria for PAIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
PAIS0019	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690909	1200	85680.0000000	21TXWQB	13448	
PAIS0019	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	700113	1600	67424.0000000	21TXWQB	13448	
PAIS0019	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	700429	0700	75600.0000000	21TXWQB	13448	
PAIS0019	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	700723	1150	76160.0000000	21TXWQB	13448	
PAIS0019	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	701007	0945	61992.0000000	21TXWQB	13448	
PAIS0019	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	710511	1300	81144.0000000	21TXWQB	13448	
PAIS0019	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	710818	1100	81648.0000000	21TXWQB	13448	
PAIS0019	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	720609	1300	63112.0000000	21TXWQB	13448	
PAIS0019	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	720912	1530	85176.0000000	21TXWQB	13448	
PAIS0019	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	721220	1500	71232.0000000	21TXWQB	13448	
PAIS0019	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	730911	1520	68096.0000000	21TXWQB	13448	
PAIS0019	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	740325	1345	62720.0000000	21TXWQB	13448	
PAIS0019	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	740619	1315	68544.0000000	21TXWQB	13448	
PAIS0019	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	740917	1240	79296.0000000	21TXWQB	13448	
PAIS0019	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	741204	1300	64680.0000000	21TXWQB	13448	
PAIS0019	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	750317	1310	76160.0000000	21TXWQB	13448	
PAIS0019	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	750626	1135	68544.0000000	21TXWQB	13448	
PAIS0019	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	760329	1100	66640.0000000	21TXWQB	13448	
PAIS0019	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	760628	1130	74368.0000000	21TXWQB	13448	
PAIS0019	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	780206	1420	77952.0000000	21TXWQB	13448	
PAIS0019	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	780606	1055	72576.0000000	21TXWQB	13448	
PAIS0019	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	780906	1505	76160.0000000	21TXWQB	13448	
PAIS0019	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	781213	1530	64512.0000000	21TXWQB	13448	
PAIS0019	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	790213	0850	65072.0000000	21TXWQB	13448	
PAIS0019	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	790912	0945	66024.0000000	21TXWQB	13448	
PAIS0019	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	800212	1110	68376.0000000	21TXWQB	13448	
PAIS0019	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	800513	1400	72576.0000000	21TXWQB	13448	
PAIS0019	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	800805	1040	91280.0000000	21TXWQB	13448	
PAIS0019	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	801120	1210	74592.0000000	21TXWQB	13448	
PAIS0019	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	810805	1440	77112.0000000	21TXWQB	13448	
PAIS0019	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	830419	0710	67536.0000000	21TXWQB	13448	
PAIS0019	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	831013	0805	66304.0000000	21TXWQB	13448	
PAIS0019	00480	SALINITY - PARTS PER THOUSAND	900124	0655	42.1000000	21TXWQB	13448	
PAIS0019	00480	SALINITY - PARTS PER THOUSAND	900124	0655	43.5000000	21TXWQB	13448	
PAIS0019	00480	SALINITY - PARTS PER THOUSAND	901016	0745	40.8000000	21TXWQB	13448	
PAIS0019	00480	SALINITY - PARTS PER THOUSAND	901016	0745	43.2000000	21TXWQB	13448	
PAIS0019	00480	SALINITY - PARTS PER THOUSAND	960716	1020	40.7000000	21TXWQB	13448	
PAIS0019	00940	CHLORIDE,TOTAL IN WATER MG/L	720912	1530	22600.0000000	21TXWQB	13448	
PAIS0019	00940	CHLORIDE,TOTAL IN WATER MG/L	800805	1040	23700.0000000	21TXWQB	13448	
PAIS0019	00940	CHLORIDE,TOTAL IN WATER MG/L	840814	1025	22100.0000000	21TXWQB	13448	
PAIS0019	00940	CHLORIDE,TOTAL IN WATER MG/L	850710	1400	25396.0000000	21TXWQB	13448	

Water Quality Observations
Outside STORET Edit Criteria for PAIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
PAIS0019	00940	CHLORIDE,TOTAL IN WATER MG/L	880720	0640	23233.0000000	21TXWQB	13448	
PAIS0019	00940	CHLORIDE,TOTAL IN WATER MG/L	881206	1330	27500.0000000	21TXWQB	13448	
PAIS0019	00940	CHLORIDE,TOTAL IN WATER MG/L	900124	0655	30100.0000000	21TXWQB	13448	
PAIS0019	00940	CHLORIDE,TOTAL IN WATER MG/L	930823	0930	29800.0000000	21TXWQB	13448	
PAIS0019	00940	CHLORIDE,TOTAL IN WATER MG/L	941128	1540	37000.0000000	21TXWQB	13448	
PAIS0019	00945	SULFATE, TOTAL (MG/L AS SO4)	700723	1150	2760.0000000	21TXWQB	13448	
PAIS0019	00945	SULFATE, TOTAL (MG/L AS SO4)	710511	1300	2910.0000000	21TXWQB	13448	
PAIS0019	00945	SULFATE, TOTAL (MG/L AS SO4)	710818	1100	2740.0000000	21TXWQB	13448	
PAIS0019	00945	SULFATE, TOTAL (MG/L AS SO4)	720912	1530	2760.0000000	21TXWQB	13448	
PAIS0019	00945	SULFATE, TOTAL (MG/L AS SO4)	721220	1500	2630.0000000	21TXWQB	13448	
PAIS0019	00945	SULFATE, TOTAL (MG/L AS SO4)	730911	1520	2580.0000000	21TXWQB	13448	
PAIS0019	00945	SULFATE, TOTAL (MG/L AS SO4)	740325	1345	2510.0000000	21TXWQB	13448	
PAIS0019	00945	SULFATE, TOTAL (MG/L AS SO4)	740619	1315	2760.0000000	21TXWQB	13448	
PAIS0019	00945	SULFATE, TOTAL (MG/L AS SO4)	740917	1240	3280.0000000	21TXWQB	13448	
PAIS0019	00945	SULFATE, TOTAL (MG/L AS SO4)	750317	1310	2660.0000000	21TXWQB	13448	
PAIS0019	00945	SULFATE, TOTAL (MG/L AS SO4)	760329	1100	2630.0000000	21TXWQB	13448	
PAIS0019	00945	SULFATE, TOTAL (MG/L AS SO4)	760628	1130	2880.0000000	21TXWQB	13448	
PAIS0019	00945	SULFATE, TOTAL (MG/L AS SO4)	780206	1420	2890.0000000	21TXWQB	13448	
PAIS0019	00945	SULFATE, TOTAL (MG/L AS SO4)	780606	1055	2910.0000000	21TXWQB	13448	
PAIS0019	00945	SULFATE, TOTAL (MG/L AS SO4)	780906	1505	3240.0000000	21TXWQB	13448	
PAIS0019	00945	SULFATE, TOTAL (MG/L AS SO4)	781213	1530	2520.0000000	21TXWQB	13448	
PAIS0019	00945	SULFATE, TOTAL (MG/L AS SO4)	790213	0850	2590.0000000	21TXWQB	13448	
PAIS0019	00945	SULFATE, TOTAL (MG/L AS SO4)	800212	1110	2560.0000000	21TXWQB	13448	
PAIS0019	00945	SULFATE, TOTAL (MG/L AS SO4)	800513	1400	2920.0000000	21TXWQB	13448	
PAIS0019	00945	SULFATE, TOTAL (MG/L AS SO4)	800805	1040	3370.0000000	21TXWQB	13448	
PAIS0019	00945	SULFATE, TOTAL (MG/L AS SO4)	801120	1210	2780.0000000	21TXWQB	13448	
PAIS0019	00945	SULFATE, TOTAL (MG/L AS SO4)	810805	1440	3230.0000000	21TXWQB	13448	
PAIS0019	00945	SULFATE, TOTAL (MG/L AS SO4)	820714	0955	2900.0000000	21TXWQB	13448	
PAIS0019	00945	SULFATE, TOTAL (MG/L AS SO4)	821014	1015	3200.0000000	21TXWQB	13448	
PAIS0019	00945	SULFATE, TOTAL (MG/L AS SO4)	821222	0900	2800.0000000	21TXWQB	13448	
PAIS0019	00945	SULFATE, TOTAL (MG/L AS SO4)	830419	0710	2520.0000000	21TXWQB	13448	
PAIS0019	00945	SULFATE, TOTAL (MG/L AS SO4)	831013	0805	2509.0000000	21TXWQB	13448	
PAIS0019	00945	SULFATE, TOTAL (MG/L AS SO4)	840411	0700	2700.0000000	21TXWQB	13448	
PAIS0019	00945	SULFATE, TOTAL (MG/L AS SO4)	840814	1025	2900.0000000	21TXWQB	13448	
PAIS0019	00945	SULFATE, TOTAL (MG/L AS SO4)	850219	1020	3300.0000000	21TXWQB	13448	
PAIS0019	00945	SULFATE, TOTAL (MG/L AS SO4)	850415	1010	2770.0000000	21TXWQB	13448	
PAIS0019	00945	SULFATE, TOTAL (MG/L AS SO4)	850710	1400	3400.0000000	21TXWQB	13448	
PAIS0019	00945	SULFATE, TOTAL (MG/L AS SO4)	860218	1210	2820.0000000	21TXWQB	13448	
PAIS0019	00945	SULFATE, TOTAL (MG/L AS SO4)	860519	1210	3000.0000000	21TXWQB	13448	
PAIS0019	00945	SULFATE, TOTAL (MG/L AS SO4)	861009	1600	2680.0000000	21TXWQB	13448	
PAIS0019	00945	SULFATE, TOTAL (MG/L AS SO4)	870923	1315	3053.0000000	21TXWQB	13448	

Water Quality Observations
Outside STORET Edit Criteria for PAIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
PAIS0019	00945	SULFATE, TOTAL (MG/L AS SO4)	880112	1100	2907.0000000	21TXWQB	13448	
PAIS0019	00945	SULFATE, TOTAL (MG/L AS SO4)	880427	0835	2703.0000000	21TXWQB	13448	
PAIS0019	00945	SULFATE, TOTAL (MG/L AS SO4)	880720	0640	3399.0000000	21TXWQB	13448	
PAIS0019	00945	SULFATE, TOTAL (MG/L AS SO4)	881206	1330	3000.0000000	21TXWQB	13448	
PAIS0019	00945	SULFATE, TOTAL (MG/L AS SO4)	890817	0700	3000.0000000	21TXWQB	13448	
PAIS0019	00945	SULFATE, TOTAL (MG/L AS SO4)	900124	0655	3200.0000000	21TXWQB	13448	
PAIS0019	00945	SULFATE, TOTAL (MG/L AS SO4)	900531	0730	2656.0000000	21TXWQB	13448	
PAIS0019	00945	SULFATE, TOTAL (MG/L AS SO4)	901016	0745	2900.0000000	21TXWQB	13448	
PAIS0019	00945	SULFATE, TOTAL (MG/L AS SO4)	930527	0730	2540.0000000	21TXWQB	13448	
PAIS0019	00945	SULFATE, TOTAL (MG/L AS SO4)	930823	0930	2960.0000000	21TXWQB	13448	
PAIS0019	00945	SULFATE, TOTAL (MG/L AS SO4)	931130	1045	2930.0000000	21TXWQB	13448	
PAIS0019	00945	SULFATE, TOTAL (MG/L AS SO4)	941128	1540	2520.0000000	21TXWQB	13448	
PAIS0019	00945	SULFATE, TOTAL (MG/L AS SO4)	950315	1039	3780.0000000	21TXWQB	13448	
PAIS0019	00945	SULFATE, TOTAL (MG/L AS SO4)	960213	0830	2510.0000000	21TXWQB	13448	
PAIS0019	00945	SULFATE, TOTAL (MG/L AS SO4)	960515	0745	2970.0000000	21TXWQB	13448	
PAIS0019	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	780206	1420	38300.0000000	21TXWQB	13448	
PAIS0019	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	780606	1055	35900.0000000	21TXWQB	13448	
PAIS0019	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	780906	1505	35850.0000000	21TXWQB	13448	
PAIS0019	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	781213	1530	31100.0000000	21TXWQB	13448	
PAIS0019	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	790213	0850	31600.0000000	21TXWQB	13448	
PAIS0019	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	790912	0945	31700.0000000	21TXWQB	13448	
PAIS0019	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	880720	0640	41660.0000000	21TXWQB	13448	
PAIS0019	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	940524	0900	30200.0000000	21TXWQB	13448	
PAIS0019	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	941128	1540	31900.0000000	21TXWQB	13448	
PAIS0019	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	950315	1039	39800.0000000	21TXWQB	13448	
PAIS0019	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	950621	1037	66600.0000000	21TXWQB	13448	
PAIS0019	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	960213	0830	38100.0000000	21TXWQB	13448	
PAIS0019	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	960404	0952	26000.0000000	21TXWQB	13448	
PAIS0019	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	960515	0745	44800.0000000	21TXWQB	13448	
PAIS0020	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	800716	0732	61000.0000000	112WRD	263415097144000	
PAIS0022	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	720927	1013	61000.0000000	112WRD	263516097252300	
PAIS0022	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	741023	1008	61000.0000000	112WRD	263516097252300	
PAIS0022	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	750204	1710	216.9000000	112WRD	263516097252300	
PAIS0022	00900	HARDNESS, TOTAL (MG/L AS CACO3)	780627	1252	7900.0000000	112WRD	263516097252300	
PAIS0022	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	780627	1252	1700.0000000	112WRD	263516097252300	
PAIS0022	00930	SODIUM, DISSOLVED (MG/L AS NA)	780627	1252	9300.0000000	112WRD	263516097252300	
PAIS0022	00935	POTASSIUM, DISSOLVED (MG/L AS K)	780627	1252	470.0000000	112WRD	263516097252300	
PAIS0022	00945	SULFATE, TOTAL (MG/L AS SO4)	780627	1252	3100.0000000	112WRD	263516097252300	
PAIS0023	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	680822	1524	0.5000000	112WRD	263532097242800	X
PAIS0023	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690911	1145	65000.0000000	112WRD	263532097242800	
PAIS0023	00095	SPECIFIC CONDUCTANCE (UMHOS/CM 25C)	690911	1146	65000.0000000	112WRD	263532097242800	

Water Quality Observations
Outside STORET Edit Criteria for PAIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
PAIS0023	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690911	1147	68000.0000000	112WRD	263532097242800	
PAIS0023	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	750204	1645	214.9000000	112WRD	263532097242800	
PAIS0023	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	750204	1646	203.9000000	112WRD	263532097242800	
PAIS0023	00900	HARDNESS, TOTAL (MG/L AS CACO3)	770621	1650	6000.0000000	112WRD	263532097242800	
PAIS0023	00900	HARDNESS, TOTAL (MG/L AS CACO3)	780301	0732	5700.0000000	112WRD	263532097242800	
PAIS0023	00900	HARDNESS, TOTAL (MG/L AS CACO3)	790411	0755	6000.0000000	112WRD	263532097242800	
PAIS0023	00900	HARDNESS, TOTAL (MG/L AS CACO3)	800716	0845	6900.0000000	112WRD	263532097242800	
PAIS0023	00900	HARDNESS, TOTAL (MG/L AS CACO3)	801118	1450	6100.0000000	112WRD	263532097242800	
PAIS0023	00900	HARDNESS, TOTAL (MG/L AS CACO3)	811215	1350	5100.0000000	112WRD	263532097242800	
PAIS0023	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	770621	1650	1200.0000000	112WRD	263532097242800	
PAIS0023	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	780301	0732	1100.0000000	112WRD	263532097242800	
PAIS0023	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	790411	0755	1200.0000000	112WRD	263532097242800	
PAIS0023	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	800716	0845	1400.0000000	112WRD	263532097242800	
PAIS0023	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	801118	1450	1200.0000000	112WRD	263532097242800	
PAIS0023	00930	SODIUM, DISSOLVED (MG/L AS NA)	770201	1220	8000.0000000	112WRD	263532097242800	
PAIS0023	00930	SODIUM, DISSOLVED (MG/L AS NA)	770621	1650	9800.0000000	112WRD	263532097242800	
PAIS0023	00930	SODIUM, DISSOLVED (MG/L AS NA)	780301	0732	11000.0000000	112WRD	263532097242800	
PAIS0023	00930	SODIUM, DISSOLVED (MG/L AS NA)	790411	0755	9700.0000000	112WRD	263532097242800	
PAIS0023	00930	SODIUM, DISSOLVED (MG/L AS NA)	791010	1724	7800.0000000	112WRD	263532097242800	
PAIS0023	00930	SODIUM, DISSOLVED (MG/L AS NA)	800716	0845	12000.0000000	112WRD	263532097242800	
PAIS0023	00930	SODIUM, DISSOLVED (MG/L AS NA)	801118	1450	10000.0000000	112WRD	263532097242800	
PAIS0023	00930	SODIUM, DISSOLVED (MG/L AS NA)	810324	1433	7900.0000000	112WRD	263532097242800	
PAIS0023	00930	SODIUM, DISSOLVED (MG/L AS NA)	811215	1350	8900.0000000	112WRD	263532097242800	
PAIS0023	00930	SODIUM, DISSOLVED (MG/L AS NA)	820329	1155	6600.0000000	112WRD	263532097242800	
PAIS0023	00931	SODIUM ADSORPTION RATIO	770201	1220	52.0000000	112WRD	263532097242800	
PAIS0023	00931	SODIUM ADSORPTION RATIO	770621	1650	55.0000000	112WRD	263532097242800	
PAIS0023	00931	SODIUM ADSORPTION RATIO	780301	0732	64.0000000	112WRD	263532097242800	
PAIS0023	00931	SODIUM ADSORPTION RATIO	790411	0755	54.0000000	112WRD	263532097242800	
PAIS0023	00931	SODIUM ADSORPTION RATIO	791010	1724	51.0000000	112WRD	263532097242800	
PAIS0023	00931	SODIUM ADSORPTION RATIO	800716	0845	63.0000000	112WRD	263532097242800	
PAIS0023	00931	SODIUM ADSORPTION RATIO	801118	1450	56.0000000	112WRD	263532097242800	
PAIS0023	00931	SODIUM ADSORPTION RATIO	811215	1350	55.0000000	112WRD	263532097242800	
PAIS0023	00935	POTASSIUM, DISSOLVED (MG/L AS K)	770201	1220	300.0000000	112WRD	263532097242800	
PAIS0023	00935	POTASSIUM, DISSOLVED (MG/L AS K)	770621	1650	360.0000000	112WRD	263532097242800	
PAIS0023	00935	POTASSIUM, DISSOLVED (MG/L AS K)	780301	0732	450.0000000	112WRD	263532097242800	
PAIS0023	00935	POTASSIUM, DISSOLVED (MG/L AS K)	790411	0755	420.0000000	112WRD	263532097242800	
PAIS0023	00935	POTASSIUM, DISSOLVED (MG/L AS K)	800716	0845	520.0000000	112WRD	263532097242800	
PAIS0023	00935	POTASSIUM, DISSOLVED (MG/L AS K)	801118	1450	490.0000000	112WRD	263532097242800	
PAIS0023	00935	POTASSIUM, DISSOLVED (MG/L AS K)	810324	1433	260.0000000	112WRD	263532097242800	
PAIS0023	00935	POTASSIUM, DISSOLVED (MG/L AS K)	811215	1350	330.0000000	112WRD	263532097242800	
PAIS0023	00935	POTASSIUM, DISSOLVED (MG/L AS K)	820329	1155	210.0000000	112WRD	263532097242800	

Water Quality Observations
Outside STORET Edit Criteria for PAIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
PAIS0023	00940	CHLORIDE,TOTAL IN WATER MG/L	800716	0845	23000.0000000	112WRD	263532097242800	
PAIS0023	00945	SULFATE, TOTAL (MG/L AS SO4)	780301	0732	2800.0000000	112WRD	263532097242800	
PAIS0023	00945	SULFATE, TOTAL (MG/L AS SO4)	790411	0755	2700.0000000	112WRD	263532097242800	
PAIS0023	00945	SULFATE, TOTAL (MG/L AS SO4)	800716	0845	2900.0000000	112WRD	263532097242800	
PAIS0025	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690911	1145	65000.0000000	11NPSWRD	PAIS_TWDB_18-2	
PAIS0025	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690911	1145	65000.0000000	11NPSWRD	PAIS_TWDB_18-2	
PAIS0025	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690911	1145	68000.0000000	11NPSWRD	PAIS_TWDB_18-2	
PAIS0026	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690911	1155	66000.0000000	11NPSWRD	PAIS_TWDB_18-1	
PAIS0026	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690911	1155	66000.0000000	11NPSWRD	PAIS_TWDB_18-1	
PAIS0026	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690911	1155	66000.0000000	11NPSWRD	PAIS_TWDB_18-1	
PAIS0027	00480	SALINITY - PARTS PER THOUSAND	540815		41.1000000	11NPSWRD	PAIS_BREU_23	
PAIS0027	00480	SALINITY - PARTS PER THOUSAND	541215		45.1000000	11NPSWRD	PAIS_BREU_23	
PAIS0027	00480	SALINITY - PARTS PER THOUSAND	550215		42.8000000	11NPSWRD	PAIS_BREU_23	
PAIS0027	00480	SALINITY - PARTS PER THOUSAND	550515		48.0000000	11NPSWRD	PAIS_BREU_23	
PAIS0027	00480	SALINITY - PARTS PER THOUSAND	550615		44.5000000	11NPSWRD	PAIS_BREU_23	
PAIS0027	00480	SALINITY - PARTS PER THOUSAND	550815		47.2000000	11NPSWRD	PAIS_BREU_23	
PAIS0027	00480	SALINITY - PARTS PER THOUSAND	560615		41.6000000	11NPSWRD	PAIS_BREU_23	
PAIS0028	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690911	1155	66000.0000000	112WRD	263613097220100	
PAIS0028	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690911	1156	66000.0000000	112WRD	263613097220100	
PAIS0028	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690911	1157	66000.0000000	112WRD	263613097220100	
PAIS0029	00480	SALINITY - PARTS PER THOUSAND	540715		40.7000000	11NPSWRD	PAIS_BREU_24	
PAIS0029	00480	SALINITY - PARTS PER THOUSAND	540815		43.7000000	11NPSWRD	PAIS_BREU_24	
PAIS0029	00480	SALINITY - PARTS PER THOUSAND	541015		43.5000000	11NPSWRD	PAIS_BREU_24	
PAIS0029	00480	SALINITY - PARTS PER THOUSAND	541215		48.8000000	11NPSWRD	PAIS_BREU_24	
PAIS0029	00480	SALINITY - PARTS PER THOUSAND	550215		48.7000000	11NPSWRD	PAIS_BREU_24	
PAIS0029	00480	SALINITY - PARTS PER THOUSAND	550515		48.0000000	11NPSWRD	PAIS_BREU_24	
PAIS0029	00480	SALINITY - PARTS PER THOUSAND	550615		44.4000000	11NPSWRD	PAIS_BREU_24	
PAIS0029	00480	SALINITY - PARTS PER THOUSAND	550815		47.4000000	11NPSWRD	PAIS_BREU_24	
PAIS0029	00480	SALINITY - PARTS PER THOUSAND	560615		41.4000000	11NPSWRD	PAIS_BREU_24	
PAIS0030	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690911	1310	66000.0000000	112WRD	264056097271100	
PAIS0030	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690911	1311	66000.0000000	112WRD	264056097271100	
PAIS0030	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690911	1312	66000.0000000	112WRD	264056097271100	
PAIS0030	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	741023	1053	61000.0000000	112WRD	264056097271100	
PAIS0031	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690911	1240	66000.0000000	11NPSWRD	PAIS_TWDB_17-2	
PAIS0031	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690911	1240	68000.0000000	11NPSWRD	PAIS_TWDB_17-2	
PAIS0031	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690911	1240	73000.0000000	11NPSWRD	PAIS_TWDB_17-2	
PAIS0032	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690911	1240	66000.0000000	112WRD	264108097262900	
PAIS0032	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690911	1241	68000.0000000	112WRD	264108097262900	
PAIS0032	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690911	1242	73000.0000000	112WRD	264108097262900	
PAIS0033	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690911	1300	64000.0000000	11NPSWRD	PAIS_TWDB_17-1	
PAIS0033	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM 25C)	690911	1300	64000.0000000	11NPSWRD	PAIS_TWDB_17-1	

Water Quality Observations
Outside STORET Edit Criteria for PAIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
PAIS0034	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690911	1300	64000.0000000	112WRD	264136097245100	
PAIS0034	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690911	1301	64000.0000000	112WRD	264136097245100	
PAIS0035	00480	SALINITY - PARTS PER THOUSAND	540715		42.7000000	11NPSWRD	PAIS_BREU_25	
PAIS0035	00480	SALINITY - PARTS PER THOUSAND	540815		44.3000000	11NPSWRD	PAIS_BREU_25	
PAIS0035	00480	SALINITY - PARTS PER THOUSAND	541015		43.0000000	11NPSWRD	PAIS_BREU_25	
PAIS0035	00480	SALINITY - PARTS PER THOUSAND	541215		51.1000000	11NPSWRD	PAIS_BREU_25	
PAIS0035	00480	SALINITY - PARTS PER THOUSAND	550215		52.1000000	11NPSWRD	PAIS_BREU_25	
PAIS0035	00480	SALINITY - PARTS PER THOUSAND	550515		55.0000000	11NPSWRD	PAIS_BREU_25	
PAIS0035	00480	SALINITY - PARTS PER THOUSAND	550615		45.2000000	11NPSWRD	PAIS_BREU_25	
PAIS0035	00480	SALINITY - PARTS PER THOUSAND	550815		47.8000000	11NPSWRD	PAIS_BREU_25	
PAIS0035	00480	SALINITY - PARTS PER THOUSAND	560315		40.6000000	11NPSWRD	PAIS_BREU_25	
PAIS0035	00480	SALINITY - PARTS PER THOUSAND	560615		42.2000000	11NPSWRD	PAIS_BREU_25	
PAIS0044	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	731116	1000	340000.0000000	21TXWQB	13449	
PAIS0044	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	740917	1325	65000.0000000	21TXWQB	13449	
PAIS0044	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	740917	1325	65000.0000000	21TXWQB	13449	
PAIS0044	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	741204	1040	60800.0000000	21TXWQB	13449	
PAIS0044	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	741204	1040	60900.0000000	21TXWQB	13449	
PAIS0044	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	800805	1230	61500.0000000	21TXWQB	13449	
PAIS0044	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	800805	1230	63000.0000000	21TXWQB	13449	
PAIS0044	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	821014	1300	67300.0000000	21TXWQB	13449	
PAIS0044	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	861009	1025	62800.0000000	21TXWQB	13449	
PAIS0044	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	861009	1025	63200.0000000	21TXWQB	13449	
PAIS0044	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	861009	1025	63400.0000000	21TXWQB	13449	
PAIS0044	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	880112	0900	65100.0000000	21TXWQB	13449	
PAIS0044	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	880112	0900	65200.0000000	21TXWQB	13449	
PAIS0044	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	880720	0820	60200.0000000	21TXWQB	13449	
PAIS0044	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	880720	0820	61400.0000000	21TXWQB	13449	
PAIS0044	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	881206	1000	64700.0000000	21TXWQB	13449	
PAIS0044	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	881206	1000	64800.0000000	21TXWQB	13449	
PAIS0044	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	900124	0930	69300.0000000	21TXWQB	13449	
PAIS0044	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	900124	0930	70200.0000000	21TXWQB	13449	
PAIS0044	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	901016	0835	65100.0000000	21TXWQB	13449	
PAIS0044	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	901016	0835	65600.0000000	21TXWQB	13449	
PAIS0044	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	901016	0835	65800.0000000	21TXWQB	13449	
PAIS0044	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	720913	1800	77504.0000000	21TXWQB	13449	
PAIS0044	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	730628	1530	64288.0000000	21TXWQB	13449	
PAIS0044	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	730911	0940	67200.0000000	21TXWQB	13449	
PAIS0044	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	740619	1145	74368.0000000	21TXWQB	13449	
PAIS0044	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	740917	1325	94080.0000000	21TXWQB	13449	
PAIS0044	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	741204	1040	89040.0000000	21TXWQB	13449	
PAIS0044	00095	SPECIFIC CONDUCTANCE (UMHOS/CM 25C)	750317	1100	69440.0000000	21TXWQB	13449	

Water Quality Observations
Outside STORET Edit Criteria for PAIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
PAIS0044	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	750626	1237	64680.0000000	21TXWQB	13449	
PAIS0044	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	751204	1050	74088.0000000	21TXWQB	13449	
PAIS0044	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	760329	1200	74368.0000000	21TXWQB	13449	
PAIS0044	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	760628	0910	69440.0000000	21TXWQB	13449	
PAIS0044	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	780206	1310	80640.0000000	21TXWQB	13449	
PAIS0044	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	780606	1145	81536.0000000	21TXWQB	13449	
PAIS0044	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	780906	1415	67200.0000000	21TXWQB	13449	
PAIS0044	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	781213	1345	90720.0000000	21TXWQB	13449	
PAIS0044	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	790213	1015	76608.0000000	21TXWQB	13449	
PAIS0044	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	800212	1200	73304.0000000	21TXWQB	13449	
PAIS0044	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	800513	1545	72072.0000000	21TXWQB	13449	
PAIS0044	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	800805	1230	91280.0000000	21TXWQB	13449	
PAIS0044	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	801120	1340	77616.0000000	21TXWQB	13449	
PAIS0044	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	810805	1320	67200.0000000	21TXWQB	13449	
PAIS0044	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	821014	1300	64300.0000000	21TXWQB	13449	
PAIS0044	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	830419	0735	69048.0000000	21TXWQB	13449	
PAIS0044	00480	SALINITY - PARTS PER THOUSAND	880720	0820	41.3000000	21TXWQB	13449	
PAIS0044	00480	SALINITY - PARTS PER THOUSAND	881206	1000	43.8000000	21TXWQB	13449	
PAIS0044	00480	SALINITY - PARTS PER THOUSAND	900124	0930	47.2000000	21TXWQB	13449	
PAIS0044	00480	SALINITY - PARTS PER THOUSAND	900124	0930	47.9000000	21TXWQB	13449	
PAIS0044	00480	SALINITY - PARTS PER THOUSAND	901016	0835	44.2000000	21TXWQB	13449	
PAIS0044	00480	SALINITY - PARTS PER THOUSAND	901016	0835	44.5000000	21TXWQB	13449	
PAIS0044	00940	CHLORIDE,TOTAL IN WATER MG/L	740917	1325	25900.0000000	21TXWQB	13449	
PAIS0044	00940	CHLORIDE,TOTAL IN WATER MG/L	741204	1040	22130.0000000	21TXWQB	13449	
PAIS0044	00940	CHLORIDE,TOTAL IN WATER MG/L	781213	1345	23500.0000000	21TXWQB	13449	
PAIS0044	00940	CHLORIDE,TOTAL IN WATER MG/L	800805	1230	23600.0000000	21TXWQB	13449	
PAIS0044	00940	CHLORIDE,TOTAL IN WATER MG/L	821014	1300	25400.0000000	21TXWQB	13449	
PAIS0044	00940	CHLORIDE,TOTAL IN WATER MG/L	821222	0830	25400.0000000	21TXWQB	13449	
PAIS0044	00940	CHLORIDE,TOTAL IN WATER MG/L	840814	0820	22200.0000000	21TXWQB	13449	
PAIS0044	00940	CHLORIDE,TOTAL IN WATER MG/L	850710	1300	26188.0000000	21TXWQB	13449	
PAIS0044	00940	CHLORIDE,TOTAL IN WATER MG/L	860519	1000	22845.0000000	21TXWQB	13449	
PAIS0044	00940	CHLORIDE,TOTAL IN WATER MG/L	880112	0900	24423.0000000	21TXWQB	13449	
PAIS0044	00940	CHLORIDE,TOTAL IN WATER MG/L	881206	1000	31000.0000000	21TXWQB	13449	
PAIS0044	00940	CHLORIDE,TOTAL IN WATER MG/L	900124	0930	33800.0000000	21TXWQB	13449	
PAIS0044	00940	CHLORIDE,TOTAL IN WATER MG/L	901016	0835	25600.0000000	21TXWQB	13449	
PAIS0044	00940	CHLORIDE,TOTAL IN WATER MG/L	930823	0840	24500.0000000	21TXWQB	13449	
PAIS0044	00940	CHLORIDE,TOTAL IN WATER MG/L	931007	1211	24700.0000000	21TXWQB	13449	
PAIS0044	00945	SULFATE, TOTAL (MG/L AS SO4)	730911	0940	2740.0000000	21TXWQB	13449	
PAIS0044	00945	SULFATE, TOTAL (MG/L AS SO4)	740619	1145	2630.0000000	21TXWQB	13449	
PAIS0044	00945	SULFATE, TOTAL (MG/L AS SO4)	740917	1325	4470.0000000	21TXWQB	13449	
PAIS0044	00945	SULFATE, TOTAL (MG/L AS SO4)	741204	1040	2690.0000000	21TXWQB	13449	

Water Quality Observations
Outside STORET Edit Criteria for PAIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
PAIS0044	00945	SULFATE, TOTAL (MG/L AS SO4)	750317	1100	2710.0000000	21TXWQB	13449	
PAIS0044	00945	SULFATE, TOTAL (MG/L AS SO4)	751204	1050	2880.0000000	21TXWQB	13449	
PAIS0044	00945	SULFATE, TOTAL (MG/L AS SO4)	760329	1200	2830.0000000	21TXWQB	13449	
PAIS0044	00945	SULFATE, TOTAL (MG/L AS SO4)	760628	0910	2730.0000000	21TXWQB	13449	
PAIS0044	00945	SULFATE, TOTAL (MG/L AS SO4)	780206	1310	2890.0000000	21TXWQB	13449	
PAIS0044	00945	SULFATE, TOTAL (MG/L AS SO4)	780606	1145	3200.0000000	21TXWQB	13449	
PAIS0044	00945	SULFATE, TOTAL (MG/L AS SO4)	780906	1415	2770.0000000	21TXWQB	13449	
PAIS0044	00945	SULFATE, TOTAL (MG/L AS SO4)	781213	1345	3390.0000000	21TXWQB	13449	
PAIS0044	00945	SULFATE, TOTAL (MG/L AS SO4)	790213	1015	2600.0000000	21TXWQB	13449	
PAIS0044	00945	SULFATE, TOTAL (MG/L AS SO4)	800212	1200	2690.0000000	21TXWQB	13449	
PAIS0044	00945	SULFATE, TOTAL (MG/L AS SO4)	800513	1545	2970.0000000	21TXWQB	13449	
PAIS0044	00945	SULFATE, TOTAL (MG/L AS SO4)	800805	1230	3390.0000000	21TXWQB	13449	
PAIS0044	00945	SULFATE, TOTAL (MG/L AS SO4)	801120	1340	2870.0000000	21TXWQB	13449	
PAIS0044	00945	SULFATE, TOTAL (MG/L AS SO4)	810805	1320	2910.0000000	21TXWQB	13449	
PAIS0044	00945	SULFATE, TOTAL (MG/L AS SO4)	820714	1038	2700.0000000	21TXWQB	13449	
PAIS0044	00945	SULFATE, TOTAL (MG/L AS SO4)	821014	1300	4000.0000000	21TXWQB	13449	
PAIS0044	00945	SULFATE, TOTAL (MG/L AS SO4)	821222	0830	3000.0000000	21TXWQB	13449	
PAIS0044	00945	SULFATE, TOTAL (MG/L AS SO4)	830419	0735	2550.0000000	21TXWQB	13449	
PAIS0044	00945	SULFATE, TOTAL (MG/L AS SO4)	840411	0735	2700.0000000	21TXWQB	13449	
PAIS0044	00945	SULFATE, TOTAL (MG/L AS SO4)	840814	0820	2900.0000000	21TXWQB	13449	
PAIS0044	00945	SULFATE, TOTAL (MG/L AS SO4)	850219	0910	3800.0000000	21TXWQB	13449	
PAIS0044	00945	SULFATE, TOTAL (MG/L AS SO4)	850415	1045	3020.0000000	21TXWQB	13449	
PAIS0044	00945	SULFATE, TOTAL (MG/L AS SO4)	850710	1300	3420.0000000	21TXWQB	13449	
PAIS0044	00945	SULFATE, TOTAL (MG/L AS SO4)	851009	0850	3042.0000000	21TXWQB	13449	
PAIS0044	00945	SULFATE, TOTAL (MG/L AS SO4)	860219	1130	3110.0000000	21TXWQB	13449	
PAIS0044	00945	SULFATE, TOTAL (MG/L AS SO4)	860519	1000	3112.0000000	21TXWQB	13449	
PAIS0044	00945	SULFATE, TOTAL (MG/L AS SO4)	861009	1025	2980.0000000	21TXWQB	13449	
PAIS0044	00945	SULFATE, TOTAL (MG/L AS SO4)	870429	1030	2822.0000000	21TXWQB	13449	
PAIS0044	00945	SULFATE, TOTAL (MG/L AS SO4)	870923	1005	3226.0000000	21TXWQB	13449	
PAIS0044	00945	SULFATE, TOTAL (MG/L AS SO4)	880112	0900	3432.0000000	21TXWQB	13449	
PAIS0044	00945	SULFATE, TOTAL (MG/L AS SO4)	880427	1112	2964.0000000	21TXWQB	13449	
PAIS0044	00945	SULFATE, TOTAL (MG/L AS SO4)	880720	0820	3346.0000000	21TXWQB	13449	
PAIS0044	00945	SULFATE, TOTAL (MG/L AS SO4)	881206	1000	3110.0000000	21TXWQB	13449	
PAIS0044	00945	SULFATE, TOTAL (MG/L AS SO4)	890817	1230	3350.0000000	21TXWQB	13449	
PAIS0044	00945	SULFATE, TOTAL (MG/L AS SO4)	900124	0930	3350.0000000	21TXWQB	13449	
PAIS0044	00945	SULFATE, TOTAL (MG/L AS SO4)	900531	0915	2773.0000000	21TXWQB	13449	
PAIS0044	00945	SULFATE, TOTAL (MG/L AS SO4)	901016	0835	3700.0000000	21TXWQB	13449	
PAIS0044	00945	SULFATE, TOTAL (MG/L AS SO4)	920826	0930	3330.0000000	21TXWQB	13449	
PAIS0044	00945	SULFATE, TOTAL (MG/L AS SO4)	930823	0840	3010.0000000	21TXWQB	13449	
PAIS0044	00945	SULFATE, TOTAL (MG/L AS SO4)	931007	1211	3240.0000000	21TXWQB	13449	
PAIS0044	00945	SULFATE, TOTAL (MG/L AS SO4)	940421	1145	2870.0000000	21TXWQB	13449	

Water Quality Observations
Outside STORET Edit Criteria for PAIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
PAIS0044	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	780206	1310	39400.0000000	21TXWQB	13449	
PAIS0044	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	780606	1145	40000.0000000	21TXWQB	13449	
PAIS0044	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	780906	1415	31840.0000000	21TXWQB	13449	
PAIS0044	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	781213	1345	43700.0000000	21TXWQB	13449	
PAIS0044	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	790213	1015	37100.0000000	21TXWQB	13449	
PAIS0044	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	790912	1240	18000.0000000	21TXWQB	13449	
PAIS0044	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	880720	0820	39890.0000000	21TXWQB	13449	
PAIS0044	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	940421	1145	37700.0000000	21TXWQB	13449	
PAIS0045	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	740917	1325	64500.0000000	21TEXWR	24910600	
PAIS0048	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690911	1400	62000.0000000	11NPSWRD	PAIS_TWDB_16-2	
PAIS0048	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690911	1400	73000.0000000	11NPSWRD	PAIS_TWDB_16-2	
PAIS0048	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690911	1400	75000.0000000	11NPSWRD	PAIS_TWDB_16-2	
PAIS0048	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	680823	1030	62300.0000000	11NPSWRD	PAIS_TWDB_16-2	
PAIS0048	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	680823	1030	1510.0000000	11NPSWRD	PAIS_TWDB_16-2	
PAIS0048	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	680823	1030	1550.0000000	11NPSWRD	PAIS_TWDB_16-2	
PAIS0048	00940	CHLORIDE,TOTAL IN WATER MG/L	680823	1030	23100.0000000	11NPSWRD	PAIS_TWDB_16-2	
PAIS0048	00945	SULFATE, TOTAL (MG/L AS SO4)	680823	1030	3040.0000000	11NPSWRD	PAIS_TWDB_16-2	
PAIS0048	00945	SULFATE, TOTAL (MG/L AS SO4)	680823	1030	3260.0000000	11NPSWRD	PAIS_TWDB_16-2	
PAIS0049	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690911	1404	62000.0000000	112WRD	264822097281400	
PAIS0049	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690911	1405	73000.0000000	112WRD	264822097281400	
PAIS0049	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690911	1406	75000.0000000	112WRD	264822097281400	
PAIS0049	00900	HARDNESS, TOTAL (MG/L AS CACO3)	680823	1030	7400.0000000	112WRD	264822097281400	
PAIS0049	00900	HARDNESS, TOTAL (MG/L AS CACO3)	680823	1033	7600.0000000	112WRD	264822097281400	
PAIS0049	00900	HARDNESS, TOTAL (MG/L AS CACO3)	730523	0915	6100.0000000	112WRD	264822097281400	
PAIS0049	00900	HARDNESS, TOTAL (MG/L AS CACO3)	740424	0920	6500.0000000	112WRD	264822097281400	
PAIS0049	00900	HARDNESS, TOTAL (MG/L AS CACO3)	740424	0923	6500.0000000	112WRD	264822097281400	
PAIS0049	00900	HARDNESS, TOTAL (MG/L AS CACO3)	741023	1130	7300.0000000	112WRD	264822097281400	
PAIS0049	00900	HARDNESS, TOTAL (MG/L AS CACO3)	741023	1133	7300.0000000	112WRD	264822097281400	
PAIS0049	00900	HARDNESS, TOTAL (MG/L AS CACO3)	750205	0950	6100.0000000	112WRD	264822097281400	
PAIS0049	00900	HARDNESS, TOTAL (MG/L AS CACO3)	750604	1102	5100.0000000	112WRD	264822097281400	
PAIS0049	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	680823	1030	1510.0000000	112WRD	264822097281400	
PAIS0049	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	680823	1033	1550.0000000	112WRD	264822097281400	
PAIS0049	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	730523	0915	1200.0000000	112WRD	264822097281400	
PAIS0049	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	740424	0920	1300.0000000	112WRD	264822097281400	
PAIS0049	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	741023	1130	1500.0000000	112WRD	264822097281400	
PAIS0049	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	741023	1133	1500.0000000	112WRD	264822097281400	
PAIS0049	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	750205	0950	1200.0000000	112WRD	264822097281400	
PAIS0049	00930	SODIUM, DISSOLVED (MG/L AS NA)	680823	1030	12000.0000000	112WRD	264822097281400	
PAIS0049	00930	SODIUM, DISSOLVED (MG/L AS NA)	680823	1033	13100.0000000	112WRD	264822097281400	
PAIS0049	00930	SODIUM, DISSOLVED (MG/L AS NA)	740424	0920	11000.0000000	112WRD	264822097281400	
PAIS0049	00930	SODIUM, DISSOLVED (MG/L AS NA)	741023	1130	12000.0000000	112WRD	264822097281400	

Water Quality Observations
Outside STORET Edit Criteria for PAIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
PAIS0049	00930	SODIUM, DISSOLVED (MG/L AS NA)	741023	1133	13000.0000000	112WRD	264822097281400	
PAIS0049	00930	SODIUM, DISSOLVED (MG/L AS NA)	750205	0950	11000.0000000	112WRD	264822097281400	
PAIS0049	00930	SODIUM, DISSOLVED (MG/L AS NA)	750604	1102	9400.0000000	112WRD	264822097281400	
PAIS0049	00931	SODIUM ADSORPTION RATIO	680823	1030	61.0000000	112WRD	264822097281400	
PAIS0049	00931	SODIUM ADSORPTION RATIO	680823	1033	65.0000000	112WRD	264822097281400	
PAIS0049	00931	SODIUM ADSORPTION RATIO	740424	0920	60.0000000	112WRD	264822097281400	
PAIS0049	00931	SODIUM ADSORPTION RATIO	740424	0923	60.0000000	112WRD	264822097281400	
PAIS0049	00931	SODIUM ADSORPTION RATIO	741023	1130	61.0000000	112WRD	264822097281400	
PAIS0049	00931	SODIUM ADSORPTION RATIO	741023	1133	61.0000000	112WRD	264822097281400	
PAIS0049	00931	SODIUM ADSORPTION RATIO	750205	0950	61.0000000	112WRD	264822097281400	
PAIS0049	00931	SODIUM ADSORPTION RATIO	750604	1102	57.0000000	112WRD	264822097281400	
PAIS0049	00935	POTASSIUM, DISSOLVED (MG/L AS K)	740424	0920	460.0000000	112WRD	264822097281400	
PAIS0049	00935	POTASSIUM, DISSOLVED (MG/L AS K)	741023	1130	500.0000000	112WRD	264822097281400	
PAIS0049	00935	POTASSIUM, DISSOLVED (MG/L AS K)	741023	1133	520.0000000	112WRD	264822097281400	
PAIS0049	00935	POTASSIUM, DISSOLVED (MG/L AS K)	750205	0950	430.0000000	112WRD	264822097281400	
PAIS0049	00935	POTASSIUM, DISSOLVED (MG/L AS K)	750604	1102	349.9000000	112WRD	264822097281400	
PAIS0049	00940	CHLORIDE,TOTAL IN WATER MG/L	680823	1033	23100.0000000	112WRD	264822097281400	
PAIS0049	00940	CHLORIDE,TOTAL IN WATER MG/L	741023	1133	23000.0000000	112WRD	264822097281400	
PAIS0049	00945	SULFATE, TOTAL (MG/L AS SO4)	680823	1030	3040.0000000	112WRD	264822097281400	
PAIS0049	00945	SULFATE, TOTAL (MG/L AS SO4)	680823	1033	3260.0000000	112WRD	264822097281400	
PAIS0049	00945	SULFATE, TOTAL (MG/L AS SO4)	730523	0915	2800.0000000	112WRD	264822097281400	
PAIS0049	00945	SULFATE, TOTAL (MG/L AS SO4)	740424	0920	2800.0000000	112WRD	264822097281400	
PAIS0049	00945	SULFATE, TOTAL (MG/L AS SO4)	741023	1130	3200.0000000	112WRD	264822097281400	
PAIS0049	00945	SULFATE, TOTAL (MG/L AS SO4)	741023	1133	3200.0000000	112WRD	264822097281400	
PAIS0049	00945	SULFATE, TOTAL (MG/L AS SO4)	750205	0950	2700.0000000	112WRD	264822097281400	
PAIS0050	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690911	1436	62000.0000000	112WRD	265244097274400	
PAIS0050	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690911	1437	65000.0000000	112WRD	265244097274400	
PAIS0050	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690911	1438	68000.0000000	112WRD	265244097274400	
PAIS0050	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690911	1439	77000.0000000	112WRD	265244097274400	
PAIS0050	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	741023	1157	63000.0000000	112WRD	265244097274400	
PAIS0050	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	741023	1158	63000.0000000	112WRD	265244097274400	
PAIS0050	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	741023	1159	64000.0000000	112WRD	265244097274400	
PAIS0050	00900	HARDNESS, TOTAL (MG/L AS CACO3)	690911	1439	8100.0000000	112WRD	265244097274400	
PAIS0050	00900	HARDNESS, TOTAL (MG/L AS CACO3)	701007	1348	6800.0000000	112WRD	265244097274400	
PAIS0050	00900	HARDNESS, TOTAL (MG/L AS CACO3)	751030	1110	6600.0000000	112WRD	265244097274400	
PAIS0050	00900	HARDNESS, TOTAL (MG/L AS CACO3)	760211	0845	7100.0000000	112WRD	265244097274400	
PAIS0050	00900	HARDNESS, TOTAL (MG/L AS CACO3)	760826	1045	5600.0000000	112WRD	265244097274400	
PAIS0050	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	690911	1439	1620.0000000	112WRD	265244097274400	
PAIS0050	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	701007	1348	1400.0000000	112WRD	265244097274400	
PAIS0050	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	751030	1110	1300.0000000	112WRD	265244097274400	
PAIS0050	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	760211	0845	1400.0000000	112WRD	265244097274400	

Water Quality Observations
Outside STORET Edit Criteria for PAIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
PAIS0050	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	760826	1045	1100.0000000	112WRD	265244097274400	
PAIS0050	00930	SODIUM, DISSOLVED (MG/L AS NA)	751030	1110	10000.0000000	112WRD	265244097274400	
PAIS0050	00930	SODIUM, DISSOLVED (MG/L AS NA)	760211	0845	12000.0000000	112WRD	265244097274400	
PAIS0050	00930	SODIUM, DISSOLVED (MG/L AS NA)	760826	1045	9500.0000000	112WRD	265244097274400	
PAIS0050	00931	SODIUM ADSORPTION RATIO	751030	1110	54.0000000	112WRD	265244097274400	
PAIS0050	00931	SODIUM ADSORPTION RATIO	760211	0845	62.0000000	112WRD	265244097274400	
PAIS0050	00931	SODIUM ADSORPTION RATIO	760826	1045	55.0000000	112WRD	265244097274400	
PAIS0050	00935	POTASSIUM, DISSOLVED (MG/L AS K)	751030	1110	400.0000000	112WRD	265244097274400	
PAIS0050	00935	POTASSIUM, DISSOLVED (MG/L AS K)	760211	0845	330.0000000	112WRD	265244097274400	
PAIS0050	00935	POTASSIUM, DISSOLVED (MG/L AS K)	760826	1045	350.0000000	112WRD	265244097274400	
PAIS0050	00940	CHLORIDE,TOTAL IN WATER MG/L	690911	1439	25800.0000000	112WRD	265244097274400	
PAIS0050	00945	SULFATE, TOTAL (MG/L AS SO4)	690911	1439	3710.0000000	112WRD	265244097274400	
PAIS0050	00945	SULFATE, TOTAL (MG/L AS SO4)	760211	0845	3200.0000000	112WRD	265244097274400	
PAIS0051	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690911	1430	62000.0000000	11NPSWRD	PAIS_TWDB_15-2	
PAIS0051	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690911	1430	65000.0000000	11NPSWRD	PAIS_TWDB_15-2	
PAIS0051	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690911	1430	68000.0000000	11NPSWRD	PAIS_TWDB_15-2	
PAIS0051	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690911	1430	77000.0000000	11NPSWRD	PAIS_TWDB_15-2	
PAIS0051	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690911	1430	68100.0000000	11NPSWRD	PAIS_TWDB_15-2	
PAIS0051	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	690911	1430	1620.0000000	11NPSWRD	PAIS_TWDB_15-2	
PAIS0051	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	701007	1345	1400.0000000	11NPSWRD	PAIS_TWDB_15-2	
PAIS0051	00940	CHLORIDE,TOTAL IN WATER MG/L	690911	1430	25800.0000000	11NPSWRD	PAIS_TWDB_15-2	
PAIS0051	00945	SULFATE, TOTAL (MG/L AS SO4)	690911	1430	3710.0000000	11NPSWRD	PAIS_TWDB_15-2	
PAIS0053	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	720913		77504.0000000	11NPSWRD	PAIS_2491_600	
PAIS0053	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	730628		64288.0000000	11NPSWRD	PAIS_2491_600	
PAIS0053	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	730911		67200.0000000	11NPSWRD	PAIS_2491_600	
PAIS0053	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	740619		74368.0000000	11NPSWRD	PAIS_2491_600	
PAIS0053	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	740917		94080.0000000	11NPSWRD	PAIS_2491_600	
PAIS0055	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690911	1519	66000.0000000	112WRD	265857097270200	
PAIS0055	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690911	1520	68000.0000000	112WRD	265857097270200	
PAIS0055	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690911	1521	69000.0000000	112WRD	265857097270200	
PAIS0055	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690911	1522	69000.0000000	112WRD	265857097270200	
PAIS0055	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690911	1523	71000.0000000	112WRD	265857097270200	
PAIS0055	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690911	1524	73000.0000000	112WRD	265857097270200	
PAIS0055	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690911	1525	73000.0000000	112WRD	265857097270200	
PAIS0056	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690911	1515	66000.0000000	11NPSWRD	PAIS_TWDB_14-2	
PAIS0056	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690911	1515	68000.0000000	11NPSWRD	PAIS_TWDB_14-2	
PAIS0056	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690911	1515	69000.0000000	11NPSWRD	PAIS_TWDB_14-2	
PAIS0056	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690911	1515	69000.0000000	11NPSWRD	PAIS_TWDB_14-2	
PAIS0056	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690911	1515	71000.0000000	11NPSWRD	PAIS_TWDB_14-2	
PAIS0056	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690911	1515	73000.0000000	11NPSWRD	PAIS_TWDB_14-2	
PAIS0056	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM 25C)	690911	1515	73000.0000000	11NPSWRD	PAIS_TWDB_14-2	

Water Quality Observations
Outside STORET Edit Criteria for PAIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
PAIS0061	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690911	1620	66000.0000000	11NPSWRD	PAIS_TWDB_13-1	
PAIS0061	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690911	1620	69000.0000000	11NPSWRD	PAIS_TWDB_13-1	
PAIS0062	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690911	1620	66000.0000000	112WRD	270605097252400	
PAIS0062	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690911	1621	69000.0000000	112WRD	270605097252400	
PAIS0062	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	730523	1110	61000.0000000	112WRD	270605097252400	
PAIS0062	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	741023	1305	68000.0000000	112WRD	270605097252400	
PAIS0062	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	741023	1306	69000.0000000	112WRD	270605097252400	
PAIS0063	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690911	1610	69000.0000000	112WRD	270605097263200	
PAIS0063	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690911	1611	71000.0000000	112WRD	270605097263200	
PAIS0063	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690911	1612	71000.0000000	112WRD	270605097263200	
PAIS0063	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690911	1613	75000.0000000	112WRD	270605097263200	
PAIS0063	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	741023	1315	70000.0000000	112WRD	270605097263200	
PAIS0063	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	741023	1316	70000.0000000	112WRD	270605097263200	
PAIS0063	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	741023	1317	70000.0000000	112WRD	270605097263200	
PAIS0063	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	741023	1318	72000.0000000	112WRD	270605097263200	
PAIS0063	00900	HARDNESS, TOTAL (MG/L AS CACO3)	680826	1253	6600.0000000	112WRD	270605097263200	
PAIS0063	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	680826	1253	1320.0000000	112WRD	270605097263200	
PAIS0063	00930	SODIUM, DISSOLVED (MG/L AS NA)	680826	1253	12900.0000000	112WRD	270605097263200	
PAIS0063	00931	SODIUM ADSORPTION RATIO	680826	1253	69.0000000	112WRD	270605097263200	
PAIS0063	00940	CHLORIDE,TOTAL IN WATER MG/L	680826	1253	22200.0000000	112WRD	270605097263200	
PAIS0063	00945	SULFATE, TOTAL (MG/L AS SO4)	680826	1253	3150.0000000	112WRD	270605097263200	
PAIS0064	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690911	1610	69000.0000000	11NPSWRD	PAIS_TWDB_13-2	
PAIS0064	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690911	1610	71000.0000000	11NPSWRD	PAIS_TWDB_13-2	
PAIS0064	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690911	1610	71000.0000000	11NPSWRD	PAIS_TWDB_13-2	
PAIS0064	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690911	1610	75000.0000000	11NPSWRD	PAIS_TWDB_13-2	
PAIS0064	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	680826	1250	60600.0000000	11NPSWRD	PAIS_TWDB_13-2	
PAIS0064	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	680826	1250	1320.0000000	11NPSWRD	PAIS_TWDB_13-2	
PAIS0064	00940	CHLORIDE,TOTAL IN WATER MG/L	680826	1250	22200.0000000	11NPSWRD	PAIS_TWDB_13-2	
PAIS0064	00945	SULFATE, TOTAL (MG/L AS SO4)	680826	1250	3150.0000000	11NPSWRD	PAIS_TWDB_13-2	
PAIS0069	00480	SALINITY - PARTS PER THOUSAND	710315		44.4000000	11NPSWRD	PAIS_SIMM_LC	
PAIS0069	00480	SALINITY - PARTS PER THOUSAND	710415		43.8000000	11NPSWRD	PAIS_SIMM_LC	
PAIS0069	00480	SALINITY - PARTS PER THOUSAND	710515		43.3000000	11NPSWRD	PAIS_SIMM_LC	
PAIS0069	00480	SALINITY - PARTS PER THOUSAND	710715		51.6000000	11NPSWRD	PAIS_SIMM_LC	
PAIS0069	00480	SALINITY - PARTS PER THOUSAND	710815		44.9000000	11NPSWRD	PAIS_SIMM_LC	
PAIS0071	00480	SALINITY - PARTS PER THOUSAND	710315		44.4000000	11NPSWRD	PAIS_SIMM_37	
PAIS0071	00480	SALINITY - PARTS PER THOUSAND	710415		43.8000000	11NPSWRD	PAIS_SIMM_37	
PAIS0071	00480	SALINITY - PARTS PER THOUSAND	710515		43.3000000	11NPSWRD	PAIS_SIMM_37	
PAIS0071	00480	SALINITY - PARTS PER THOUSAND	710715		42.1000000	11NPSWRD	PAIS_SIMM_37	
PAIS0073	00480	SALINITY - PARTS PER THOUSAND	710115		41.6000000	11NPSWRD	PAIS_SIMM_36	
PAIS0073	00480	SALINITY - PARTS PER THOUSAND	710315		44.9000000	11NPSWRD	PAIS_SIMM_36	
PAIS0073	00480	SALINITY - PARTS PER THOUSAND	710415		44.9000000	11NPSWRD	PAIS_SIMM_36	

Water Quality Observations
Outside STORET Edit Criteria for PAIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
PAIS0073	00480	SALINITY - PARTS PER THOUSAND	710515		45.3000000	11NPSWRD	PAIS_SIMM_36	
PAIS0073	00480	SALINITY - PARTS PER THOUSAND	710715		42.1000000	11NPSWRD	PAIS_SIMM_36	
PAIS0073	00480	SALINITY - PARTS PER THOUSAND	710815		42.1000000	11NPSWRD	PAIS_SIMM_36	
PAIS0077	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	780627	1444	60300.0000000	112WRD	271211097243300	
PAIS0077	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	780627	1446	60200.0000000	112WRD	271211097243300	
PAIS0078	00480	SALINITY - PARTS PER THOUSAND	710115		43.8000000	11NPSWRD	PAIS_SIMM_35	
PAIS0078	00480	SALINITY - PARTS PER THOUSAND	710315		45.5000000	11NPSWRD	PAIS_SIMM_35	
PAIS0078	00480	SALINITY - PARTS PER THOUSAND	710415		44.4000000	11NPSWRD	PAIS_SIMM_35	
PAIS0078	00480	SALINITY - PARTS PER THOUSAND	710515		51.6000000	11NPSWRD	PAIS_SIMM_35	
PAIS0078	00480	SALINITY - PARTS PER THOUSAND	710715		42.7000000	11NPSWRD	PAIS_SIMM_35	
PAIS0078	00480	SALINITY - PARTS PER THOUSAND	710815		43.3000000	11NPSWRD	PAIS_SIMM_35	
PAIS0080	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690916	1150	68000.0000000	112WRD	271213097231100	
PAIS0080	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690916	1151	73000.0000000	112WRD	271213097231100	
PAIS0080	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690916	1152	73000.0000000	112WRD	271213097231100	
PAIS0080	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690916	1153	79000.0000000	112WRD	271213097231100	
PAIS0080	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	720927	1405	63000.0000000	112WRD	271213097231100	
PAIS0080	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	720927	1406	67000.0000000	112WRD	271213097231100	
PAIS0080	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	720927	1407	73000.0000000	112WRD	271213097231100	
PAIS0080	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	730523	1258	68000.0000000	112WRD	271213097231100	
PAIS0080	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	741023	1355	68000.0000000	112WRD	271213097231100	
PAIS0080	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	741023	1356	69000.0000000	112WRD	271213097231100	
PAIS0080	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	760211	1010	63000.0000000	112WRD	271213097231100	
PAIS0080	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	760211	1011	63000.0000000	112WRD	271213097231100	
PAIS0081	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690916	1115	65000.0000000	112WRD	271213097253500	
PAIS0081	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690916	1116	65000.0000000	112WRD	271213097253500	
PAIS0081	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690916	1117	68000.0000000	112WRD	271213097253500	
PAIS0081	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690916	1118	69000.0000000	112WRD	271213097253500	
PAIS0081	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690916	1119	69000.0000000	112WRD	271213097253500	
PAIS0081	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690916	1125	62000.0000000	112WRD	271213097253500	
PAIS0081	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690916	1126	68000.0000000	112WRD	271213097253500	
PAIS0081	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690916	1140	65000.0000000	112WRD	271213097253500	
PAIS0081	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690916	1141	68000.0000000	112WRD	271213097253500	
PAIS0081	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690916	1142	68000.0000000	112WRD	271213097253500	
PAIS0081	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	741023	1405	68000.0000000	112WRD	271213097253500	
PAIS0081	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	741023	1406	68000.0000000	112WRD	271213097253500	
PAIS0081	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	741023	1407	68000.0000000	112WRD	271213097253500	
PAIS0081	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	741023	1408	69000.0000000	112WRD	271213097253500	
PAIS0081	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	760211	1000	63000.0000000	112WRD	271213097253500	
PAIS0081	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	760211	1020	63000.0000000	112WRD	271213097253500	
PAIS0081	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	760211	1021	63000.0000000	112WRD	271213097253500	
PAIS0081	00095	SPECIFIC CONDUCTANCE (UMHOS/CM 25C)	760211	1022	61000.0000000	112WRD	271213097253500	

Water Quality Observations
Outside STORET Edit Criteria for PAIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
PAIS0081	00900	HARDNESS, TOTAL (MG/L AS CACO3)	690916	1115	8300.0000000	112WRD	271213097253500	
PAIS0081	00900	HARDNESS, TOTAL (MG/L AS CACO3)	740424	1320	5500.0000000	112WRD	271213097253500	
PAIS0081	00900	HARDNESS, TOTAL (MG/L AS CACO3)	740424	1323	5500.0000000	112WRD	271213097253500	
PAIS0081	00900	HARDNESS, TOTAL (MG/L AS CACO3)	741023	1405	8400.0000000	112WRD	271213097253500	
PAIS0081	00900	HARDNESS, TOTAL (MG/L AS CACO3)	741023	1408	8400.0000000	112WRD	271213097253500	
PAIS0081	00900	HARDNESS, TOTAL (MG/L AS CACO3)	750205	1330	6500.0000000	112WRD	271213097253500	
PAIS0081	00900	HARDNESS, TOTAL (MG/L AS CACO3)	750604	1330	6500.0000000	112WRD	271213097253500	
PAIS0081	00900	HARDNESS, TOTAL (MG/L AS CACO3)	750604	1331	7000.0000000	112WRD	271213097253500	
PAIS0081	00900	HARDNESS, TOTAL (MG/L AS CACO3)	760211	1000	7900.0000000	112WRD	271213097253500	
PAIS0081	00900	HARDNESS, TOTAL (MG/L AS CACO3)	760826	1215	5600.0000000	112WRD	271213097253500	
PAIS0081	00900	HARDNESS, TOTAL (MG/L AS CACO3)	770622	1100	6500.0000000	112WRD	271213097253500	
PAIS0081	00900	HARDNESS, TOTAL (MG/L AS CACO3)	780301	1032	6900.0000000	112WRD	271213097253500	
PAIS0081	00900	HARDNESS, TOTAL (MG/L AS CACO3)	790411	1045	6400.0000000	112WRD	271213097253500	
PAIS0081	00900	HARDNESS, TOTAL (MG/L AS CACO3)	791011	0811	5100.0000000	112WRD	271213097253500	
PAIS0081	00900	HARDNESS, TOTAL (MG/L AS CACO3)	800716	1045	7500.0000000	112WRD	271213097253500	
PAIS0081	00900	HARDNESS, TOTAL (MG/L AS CACO3)	801118	1227	5600.0000000	112WRD	271213097253500	
PAIS0081	00900	HARDNESS, TOTAL (MG/L AS CACO3)	810324	1159	5500.0000000	112WRD	271213097253500	
PAIS0081	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	690916	1115	1680.0000000	112WRD	271213097253500	
PAIS0081	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	740424	1320	1100.0000000	112WRD	271213097253500	
PAIS0081	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	741023	1405	1700.0000000	112WRD	271213097253500	
PAIS0081	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	741023	1408	1300.0000000	112WRD	271213097253500	
PAIS0081	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	750205	1330	1300.0000000	112WRD	271213097253500	
PAIS0081	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	750604	1330	1300.0000000	112WRD	271213097253500	
PAIS0081	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	750604	1331	1400.0000000	112WRD	271213097253500	
PAIS0081	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	760211	1000	1600.0000000	112WRD	271213097253500	
PAIS0081	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	760826	1215	1100.0000000	112WRD	271213097253500	
PAIS0081	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	770622	1100	1300.0000000	112WRD	271213097253500	
PAIS0081	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	780301	1032	1400.0000000	112WRD	271213097253500	
PAIS0081	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	790411	1045	1300.0000000	112WRD	271213097253500	
PAIS0081	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	791011	0811	1100.0000000	112WRD	271213097253500	
PAIS0081	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	800716	1045	1500.0000000	112WRD	271213097253500	
PAIS0081	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	801118	1227	1100.0000000	112WRD	271213097253500	
PAIS0081	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	810324	1159	1100.0000000	112WRD	271213097253500	
PAIS0081	00930	SODIUM, DISSOLVED (MG/L AS NA)	740424	1320	9500.0000000	112WRD	271213097253500	
PAIS0081	00930	SODIUM, DISSOLVED (MG/L AS NA)	741023	1405	14000.0000000	112WRD	271213097253500	
PAIS0081	00930	SODIUM, DISSOLVED (MG/L AS NA)	741023	1408	15000.0000000	112WRD	271213097253500	
PAIS0081	00930	SODIUM, DISSOLVED (MG/L AS NA)	750205	1330	11000.0000000	112WRD	271213097253500	
PAIS0081	00930	SODIUM, DISSOLVED (MG/L AS NA)	750604	1330	12000.0000000	112WRD	271213097253500	
PAIS0081	00930	SODIUM, DISSOLVED (MG/L AS NA)	750604	1331	12000.0000000	112WRD	271213097253500	
PAIS0081	00930	SODIUM, DISSOLVED (MG/L AS NA)	760211	1000	13000.0000000	112WRD	271213097253500	
PAIS0081	00930	SODIUM, DISSOLVED (MG/L AS NA)	760826	1215	10000.0000000	112WRD	271213097253500	

Water Quality Observations
Outside STORET Edit Criteria for PAIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
PAIS0081	00930	SODIUM, DISSOLVED (MG/L AS NA)	770201	1445	6500.0000000	112WRD	271213097253500	
PAIS0081	00930	SODIUM, DISSOLVED (MG/L AS NA)	770622	1100	11000.0000000	112WRD	271213097253500	
PAIS0081	00930	SODIUM, DISSOLVED (MG/L AS NA)	780301	1032	11000.0000000	112WRD	271213097253500	
PAIS0081	00930	SODIUM, DISSOLVED (MG/L AS NA)	790411	1045	11000.0000000	112WRD	271213097253500	
PAIS0081	00930	SODIUM, DISSOLVED (MG/L AS NA)	791011	0811	9300.0000000	112WRD	271213097253500	
PAIS0081	00930	SODIUM, DISSOLVED (MG/L AS NA)	800716	1045	12000.0000000	112WRD	271213097253500	
PAIS0081	00930	SODIUM, DISSOLVED (MG/L AS NA)	801118	1227	9500.0000000	112WRD	271213097253500	
PAIS0081	00930	SODIUM, DISSOLVED (MG/L AS NA)	810324	1159	9000.0000000	112WRD	271213097253500	
PAIS0081	00930	SODIUM, DISSOLVED (MG/L AS NA)	811215	1141	9300.0000000	112WRD	271213097253500	
PAIS0081	00930	SODIUM, DISSOLVED (MG/L AS NA)	820330	1020	7000.0000000	112WRD	271213097253500	
PAIS0081	00931	SODIUM ADSORPTION RATIO	740424	1320	56.0000000	112WRD	271213097253500	
PAIS0081	00931	SODIUM ADSORPTION RATIO	740424	1323	56.0000000	112WRD	271213097253500	
PAIS0081	00931	SODIUM ADSORPTION RATIO	741023	1405	67.0000000	112WRD	271213097253500	
PAIS0081	00931	SODIUM ADSORPTION RATIO	741023	1408	67.0000000	112WRD	271213097253500	
PAIS0081	00931	SODIUM ADSORPTION RATIO	750205	1330	59.0000000	112WRD	271213097253500	
PAIS0081	00931	SODIUM ADSORPTION RATIO	750604	1330	65.0000000	112WRD	271213097253500	
PAIS0081	00931	SODIUM ADSORPTION RATIO	750604	1331	63.0000000	112WRD	271213097253500	
PAIS0081	00931	SODIUM ADSORPTION RATIO	760211	1000	64.0000000	112WRD	271213097253500	
PAIS0081	00931	SODIUM ADSORPTION RATIO	760826	1215	58.0000000	112WRD	271213097253500	
PAIS0081	00931	SODIUM ADSORPTION RATIO	770622	1100	59.0000000	112WRD	271213097253500	
PAIS0081	00931	SODIUM ADSORPTION RATIO	780301	1032	58.0000000	112WRD	271213097253500	
PAIS0081	00931	SODIUM ADSORPTION RATIO	790411	1045	60.0000000	112WRD	271213097253500	
PAIS0081	00931	SODIUM ADSORPTION RATIO	791011	0811	57.0000000	112WRD	271213097253500	
PAIS0081	00931	SODIUM ADSORPTION RATIO	800716	1045	61.0000000	112WRD	271213097253500	
PAIS0081	00931	SODIUM ADSORPTION RATIO	801118	1227	55.0000000	112WRD	271213097253500	
PAIS0081	00931	SODIUM ADSORPTION RATIO	810324	1159	53.0000000	112WRD	271213097253500	
PAIS0081	00931	SODIUM ADSORPTION RATIO	811215	1141	57.0000000	112WRD	271213097253500	
PAIS0081	00935	POTASSIUM, DISSOLVED (MG/L AS K)	740424	1320	420.0000000	112WRD	271213097253500	
PAIS0081	00935	POTASSIUM, DISSOLVED (MG/L AS K)	741023	1405	580.0000000	112WRD	271213097253500	
PAIS0081	00935	POTASSIUM, DISSOLVED (MG/L AS K)	741023	1408	600.0000000	112WRD	271213097253500	
PAIS0081	00935	POTASSIUM, DISSOLVED (MG/L AS K)	750205	1330	430.0000000	112WRD	271213097253500	
PAIS0081	00935	POTASSIUM, DISSOLVED (MG/L AS K)	750604	1330	430.0000000	112WRD	271213097253500	
PAIS0081	00935	POTASSIUM, DISSOLVED (MG/L AS K)	750604	1331	420.0000000	112WRD	271213097253500	
PAIS0081	00935	POTASSIUM, DISSOLVED (MG/L AS K)	760211	1000	470.0000000	112WRD	271213097253500	
PAIS0081	00935	POTASSIUM, DISSOLVED (MG/L AS K)	760826	1215	400.0000000	112WRD	271213097253500	
PAIS0081	00935	POTASSIUM, DISSOLVED (MG/L AS K)	770201	1445	250.0000000	112WRD	271213097253500	
PAIS0081	00935	POTASSIUM, DISSOLVED (MG/L AS K)	770622	1100	390.0000000	112WRD	271213097253500	
PAIS0081	00935	POTASSIUM, DISSOLVED (MG/L AS K)	780301	1032	460.0000000	112WRD	271213097253500	
PAIS0081	00935	POTASSIUM, DISSOLVED (MG/L AS K)	790411	1045	410.0000000	112WRD	271213097253500	
PAIS0081	00935	POTASSIUM, DISSOLVED (MG/L AS K)	800716	1045	570.0000000	112WRD	271213097253500	
PAIS0081	00935	POTASSIUM, DISSOLVED (MG/L AS K)	801118	1227	480.0000000	112WRD	271213097253500	

Water Quality Observations
Outside STORET Edit Criteria for PAIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
PAIS0081	00935	POTASSIUM, DISSOLVED (MG/L AS K)	810324	1159	300.0000000	112WRD	271213097253500	
PAIS0081	00935	POTASSIUM, DISSOLVED (MG/L AS K)	811215	1141	320.0000000	112WRD	271213097253500	
PAIS0081	00935	POTASSIUM, DISSOLVED (MG/L AS K)	820330	1020	220.0000000	112WRD	271213097253500	
PAIS0081	00940	CHLORIDE,TOTAL IN WATER MG/L	690916	1115	23800.0000000	112WRD	271213097253500	
PAIS0081	00940	CHLORIDE,TOTAL IN WATER MG/L	741023	1405	26000.0000000	112WRD	271213097253500	
PAIS0081	00940	CHLORIDE,TOTAL IN WATER MG/L	741023	1408	27000.0000000	112WRD	271213097253500	
PAIS0081	00940	CHLORIDE,TOTAL IN WATER MG/L	760211	1000	24000.0000000	112WRD	271213097253500	
PAIS0081	00940	CHLORIDE,TOTAL IN WATER MG/L	800716	1045	24000.0000000	112WRD	271213097253500	
PAIS0081	00945	SULFATE, TOTAL (MG/L AS SO4)	690916	1115	3540.0000000	112WRD	271213097253500	
PAIS0081	00945	SULFATE, TOTAL (MG/L AS SO4)	741023	1405	3700.0000000	112WRD	271213097253500	
PAIS0081	00945	SULFATE, TOTAL (MG/L AS SO4)	741023	1408	3800.0000000	112WRD	271213097253500	
PAIS0081	00945	SULFATE, TOTAL (MG/L AS SO4)	750205	1330	2700.0000000	112WRD	271213097253500	
PAIS0081	00945	SULFATE, TOTAL (MG/L AS SO4)	750604	1330	3500.0000000	112WRD	271213097253500	
PAIS0081	00945	SULFATE, TOTAL (MG/L AS SO4)	750604	1331	2700.0000000	112WRD	271213097253500	
PAIS0081	00945	SULFATE, TOTAL (MG/L AS SO4)	760211	1000	3300.0000000	112WRD	271213097253500	
PAIS0081	00945	SULFATE, TOTAL (MG/L AS SO4)	770622	1100	2700.0000000	112WRD	271213097253500	
PAIS0081	00945	SULFATE, TOTAL (MG/L AS SO4)	780301	1032	2800.0000000	112WRD	271213097253500	
PAIS0081	00945	SULFATE, TOTAL (MG/L AS SO4)	790411	1045	3200.0000000	112WRD	271213097253500	
PAIS0081	00945	SULFATE, TOTAL (MG/L AS SO4)	800716	1045	2700.0000000	112WRD	271213097253500	
PAIS0081	01020	BORON, DISSOLVED (UG/L AS B)	690916	1115	6300.0000000	112WRD	271213097253500	
PAIS0082	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690916	1115	65000.0000000	112WRD	271213097255800	
PAIS0082	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690916	1116	65000.0000000	112WRD	271213097255800	
PAIS0082	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690916	1117	68000.0000000	112WRD	271213097255800	
PAIS0082	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690916	1118	69000.0000000	112WRD	271213097255800	
PAIS0082	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690916	1119	69000.0000000	112WRD	271213097255800	
PAIS0082	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	741023	1405	68000.0000000	112WRD	271213097255800	
PAIS0082	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	741023	1406	68000.0000000	112WRD	271213097255800	
PAIS0082	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	741023	1407	68000.0000000	112WRD	271213097255800	
PAIS0082	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	741023	1408	69000.0000000	112WRD	271213097255800	
PAIS0082	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	741023	1420	67000.0000000	112WRD	271213097255800	
PAIS0082	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	741023	1421	68000.0000000	112WRD	271213097255800	
PAIS0082	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	760211	1020	63000.0000000	112WRD	271213097255800	
PAIS0082	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	760211	1021	63000.0000000	112WRD	271213097255800	
PAIS0082	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	760211	1022	61000.0000000	112WRD	271213097255800	
PAIS0082	00900	HARDNESS, TOTAL (MG/L AS CACO3)	690916	1115	8300.0000000	112WRD	271213097255800	
PAIS0082	00900	HARDNESS, TOTAL (MG/L AS CACO3)	740424	1320	5500.0000000	112WRD	271213097255800	
PAIS0082	00900	HARDNESS, TOTAL (MG/L AS CACO3)	740424	1323	5500.0000000	112WRD	271213097255800	
PAIS0082	00900	HARDNESS, TOTAL (MG/L AS CACO3)	741023	1405	8400.0000000	112WRD	271213097255800	
PAIS0082	00900	HARDNESS, TOTAL (MG/L AS CACO3)	741023	1408	8400.0000000	112WRD	271213097255800	
PAIS0082	00900	HARDNESS, TOTAL (MG/L AS CACO3)	750205	1330	6500.0000000	112WRD	271213097255800	
PAIS0082	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	690916	1115	1680.0000000	112WRD	271213097255800	

Water Quality Observations
Outside STORET Edit Criteria for PAIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
PAIS0082	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	740424	1320	1100.0000000	112WRD	271213097255800	
PAIS0082	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	741023	1405	1700.0000000	112WRD	271213097255800	
PAIS0082	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	741023	1408	1300.0000000	112WRD	271213097255800	
PAIS0082	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	750205	1330	1300.0000000	112WRD	271213097255800	
PAIS0082	00930	SODIUM, DISSOLVED (MG/L AS NA)	740424	1320	9500.0000000	112WRD	271213097255800	
PAIS0082	00930	SODIUM, DISSOLVED (MG/L AS NA)	741023	1405	14000.0000000	112WRD	271213097255800	
PAIS0082	00930	SODIUM, DISSOLVED (MG/L AS NA)	741023	1408	15000.0000000	112WRD	271213097255800	
PAIS0082	00930	SODIUM, DISSOLVED (MG/L AS NA)	750205	1330	11000.0000000	112WRD	271213097255800	
PAIS0082	00931	SODIUM ADSORPTION RATIO	740424	1320	56.0000000	112WRD	271213097255800	
PAIS0082	00931	SODIUM ADSORPTION RATIO	740424	1323	56.0000000	112WRD	271213097255800	
PAIS0082	00931	SODIUM ADSORPTION RATIO	741023	1405	67.0000000	112WRD	271213097255800	
PAIS0082	00931	SODIUM ADSORPTION RATIO	741023	1408	67.0000000	112WRD	271213097255800	
PAIS0082	00931	SODIUM ADSORPTION RATIO	750205	1330	59.0000000	112WRD	271213097255800	
PAIS0082	00935	POTASSIUM, DISSOLVED (MG/L AS K)	740424	1320	420.0000000	112WRD	271213097255800	
PAIS0082	00935	POTASSIUM, DISSOLVED (MG/L AS K)	741023	1405	580.0000000	112WRD	271213097255800	
PAIS0082	00935	POTASSIUM, DISSOLVED (MG/L AS K)	741023	1408	600.0000000	112WRD	271213097255800	
PAIS0082	00935	POTASSIUM, DISSOLVED (MG/L AS K)	750205	1330	430.0000000	112WRD	271213097255800	
PAIS0082	00940	CHLORIDE,TOTAL IN WATER MG/L	690916	1115	23800.0000000	112WRD	271213097255800	
PAIS0082	00940	CHLORIDE,TOTAL IN WATER MG/L	741023	1405	26000.0000000	112WRD	271213097255800	
PAIS0082	00940	CHLORIDE,TOTAL IN WATER MG/L	741023	1408	27000.0000000	112WRD	271213097255800	
PAIS0082	00945	SULFATE, TOTAL (MG/L AS SO4)	690916	1115	3540.0000000	112WRD	271213097255800	
PAIS0082	00945	SULFATE, TOTAL (MG/L AS SO4)	741023	1405	3700.0000000	112WRD	271213097255800	
PAIS0082	00945	SULFATE, TOTAL (MG/L AS SO4)	741023	1408	3800.0000000	112WRD	271213097255800	
PAIS0082	00945	SULFATE, TOTAL (MG/L AS SO4)	750205	1330	2700.0000000	112WRD	271213097255800	
PAIS0082	01020	BORON, DISSOLVED (UG/L AS B)	690916	1115	6300.0000000	112WRD	271213097255800	
PAIS0083	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690916	1150	68000.0000000	11NPSWRD	PAIS_TWDB_12-1	
PAIS0083	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690916	1150	73000.0000000	11NPSWRD	PAIS_TWDB_12-1	
PAIS0083	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690916	1150	73000.0000000	11NPSWRD	PAIS_TWDB_12-1	
PAIS0083	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690916	1150	79000.0000000	11NPSWRD	PAIS_TWDB_12-1	
PAIS0084	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690916	1140	65000.0000000	11NPSWRD	PAIS_TWDB_12-2	
PAIS0084	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690916	1140	68000.0000000	11NPSWRD	PAIS_TWDB_12-2	
PAIS0084	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690916	1140	68000.0000000	11NPSWRD	PAIS_TWDB_12-2	
PAIS0085	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690916	1115	65000.0000000	11NPSWRD	PAIS_TWDB_12-3	
PAIS0085	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690916	1115	65000.0000000	11NPSWRD	PAIS_TWDB_12-3	
PAIS0085	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690916	1115	68000.0000000	11NPSWRD	PAIS_TWDB_12-3	
PAIS0085	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690916	1115	69000.0000000	11NPSWRD	PAIS_TWDB_12-3	
PAIS0085	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690916	1115	69000.0000000	11NPSWRD	PAIS_TWDB_12-3	
PAIS0085	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690916	1115	65200.0000000	11NPSWRD	PAIS_TWDB_12-3	
PAIS0085	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	690916	1115	1680.0000000	11NPSWRD	PAIS_TWDB_12-3	
PAIS0085	00940	CHLORIDE,TOTAL IN WATER MG/L	690916	1115	23800.0000000	11NPSWRD	PAIS_TWDB_12-3	
PAIS0085	00945	SULFATE, TOTAL (MG/L AS SO4)	690916	1115	3540.0000000	11NPSWRD	PAIS_TWDB_12-3	

Water Quality Observations
Outside STORET Edit Criteria for PAIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
PAIS0085	01020	BORON, DISSOLVED (UG/L AS B)	690916	1115	6300.0000000	11NPSWRD	PAIS_TWDB_12-3	
PAIS0086	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690916	1125	62000.0000000	11NPSWRD	PAIS_TWDB_12-4	
PAIS0086	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690916	1125	68000.0000000	11NPSWRD	PAIS_TWDB_12-4	
PAIS0088	00480	SALINITY - PARTS PER THOUSAND	710115		42.7000000	11NPSWRD	PAIS_SIMM_34	
PAIS0088	00480	SALINITY - PARTS PER THOUSAND	710315		47.7000000	11NPSWRD	PAIS_SIMM_34	
PAIS0088	00480	SALINITY - PARTS PER THOUSAND	710415		44.9000000	11NPSWRD	PAIS_SIMM_34	
PAIS0088	00480	SALINITY - PARTS PER THOUSAND	710515		42.7000000	11NPSWRD	PAIS_SIMM_34	
PAIS0088	00480	SALINITY - PARTS PER THOUSAND	710715		43.3000000	11NPSWRD	PAIS_SIMM_34	
PAIS0088	00480	SALINITY - PARTS PER THOUSAND	710815		44.9000000	11NPSWRD	PAIS_SIMM_34	
PAIS0096	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690915	1340	65000.0000000	112WRD	271630097251900	
PAIS0096	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690915	1342	66000.0000000	112WRD	271630097251900	
PAIS0096	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690916	1235	69000.0000000	112WRD	271630097251900	
PAIS0096	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690916	1236	68000.0000000	112WRD	271630097251900	
PAIS0096	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690916	1237	73000.0000000	112WRD	271630097251900	
PAIS0096	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690916	1238	73000.0000000	112WRD	271630097251900	
PAIS0096	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	741023	1435	62000.0000000	112WRD	271630097251900	
PAIS0096	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	741023	1436	62000.0000000	112WRD	271630097251900	
PAIS0096	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	741023	1437	62000.0000000	112WRD	271630097251900	
PAIS0096	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	780627	1510	62300.0000000	112WRD	271630097251900	
PAIS0096	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	780627	1512	62300.0000000	112WRD	271630097251900	
PAIS0096	00900	HARDNESS, TOTAL (MG/L AS CACO3)	690915	1342	9100.0000000	112WRD	271630097251900	
PAIS0096	00900	HARDNESS, TOTAL (MG/L AS CACO3)	780627	1510	7100.0000000	112WRD	271630097251900	
PAIS0096	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	690915	1342	1820.0000000	112WRD	271630097251900	
PAIS0096	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	780627	1510	1500.0000000	112WRD	271630097251900	
PAIS0096	00930	SODIUM, DISSOLVED (MG/L AS NA)	780627	1510	13000.0000000	112WRD	271630097251900	
PAIS0096	00931	SODIUM ADSORPTION RATIO	780627	1510	67.0000000	112WRD	271630097251900	
PAIS0096	00935	POTASSIUM, DISSOLVED (MG/L AS K)	780627	1510	510.0000000	112WRD	271630097251900	
PAIS0096	00940	CHLORIDE,TOTAL IN WATER MG/L	690915	1342	25300.0000000	112WRD	271630097251900	
PAIS0096	00940	CHLORIDE,TOTAL IN WATER MG/L	780627	1510	23000.0000000	112WRD	271630097251900	
PAIS0096	00945	SULFATE, TOTAL (MG/L AS SO4)	690915	1342	4220.0000000	112WRD	271630097251900	
PAIS0096	00945	SULFATE, TOTAL (MG/L AS SO4)	780627	1510	3400.0000000	112WRD	271630097251900	
PAIS0096	01020	BORON, DISSOLVED (UG/L AS B)	690915	1342	7800.0000000	112WRD	271630097251900	
PAIS0098	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690915	1340	65000.0000000	11NPSWRD	PAIS_TWDB_11-3	
PAIS0098	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690915	1340	66000.0000000	11NPSWRD	PAIS_TWDB_11-3	
PAIS0098	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690916	1235	68000.0000000	11NPSWRD	PAIS_TWDB_11-3	
PAIS0098	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690916	1235	69000.0000000	11NPSWRD	PAIS_TWDB_11-3	
PAIS0098	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690916	1235	73000.0000000	11NPSWRD	PAIS_TWDB_11-3	
PAIS0098	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690916	1235	73000.0000000	11NPSWRD	PAIS_TWDB_11-3	
PAIS0098	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690915	1340	69600.0000000	11NPSWRD	PAIS_TWDB_11-3	
PAIS0098	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	690915	1340	1820.0000000	11NPSWRD	PAIS_TWDB_11-3	
PAIS0098	00940	CHLORIDE,TOTAL IN WATER MG/L	690915	1340	25300.0000000	11NPSWRD	PAIS_TWDB_11-3	

Water Quality Observations
Outside STORET Edit Criteria for PAIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
PAIS0098	00945	SULFATE, TOTAL (MG/L AS SO4)	690915	1340	4220.0000000	11NPSWRD	PAIS_TWDB_11-3	
PAIS0098	01020	BORON, DISSOLVED (UG/L AS B)	690915	1340	7800.0000000	11NPSWRD	PAIS_TWDB_11-3	
PAIS0099	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	780606	1200	62000.0000000	21TEXWR	24910100	
PAIS0099	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	750108	1355	77056.0000000	21TEXWR	24910100	
PAIS0099	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	750409	1425	70880.0000000	21TEXWR	24910100	
PAIS0099	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	750707	1340	63000.0000000	21TEXWR	24910100	
PAIS0099	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	751027	1350	70000.0000000	21TEXWR	24910100	
PAIS0099	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	760706	1410	64000.0000000	21TEXWR	24910100	
PAIS0100	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	770907	1220	61000.0000000	21TXWQB	13444	
PAIS0100	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	780606	1200	62500.0000000	21TXWQB	13444	
PAIS0100	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	780926	1120	65000.0000000	21TXWQB	13444	
PAIS0100	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	780926	1120	65000.0000000	21TXWQB	13444	
PAIS0100	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	790213	1254	61000.0000000	21TXWQB	13444	
PAIS0100	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	820818	1404	68500.0000000	21TXWQB	13444	
PAIS0100	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	820818	1404	68900.0000000	21TXWQB	13444	
PAIS0100	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	821122	1251	70100.0000000	21TXWQB	13444	
PAIS0100	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	821122	1251	70400.0000000	21TXWQB	13444	
PAIS0100	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	840808	0830	69100.0000000	21TXWQB	13444	
PAIS0100	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	840808	0830	69100.0000000	21TXWQB	13444	
PAIS0100	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	840808	1828	69300.0000000	21TXWQB	13444	
PAIS0100	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	840808	1828	69500.0000000	21TXWQB	13444	
PAIS0100	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	841011	1327	69000.0000000	21TXWQB	13444	
PAIS0100	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	841011	1327	76000.0000000	21TXWQB	13444	
PAIS0100	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	850108	1348	60400.0000000	21TXWQB	13444	
PAIS0100	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	850108	1348	62700.0000000	21TXWQB	13444	
PAIS0100	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	860527	1232	65300.0000000	21TXWQB	13444	
PAIS0100	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	860527	1232	65300.0000000	21TXWQB	13444	
PAIS0100	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	861125	1235	64500.0000000	21TXWQB	13444	
PAIS0100	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	861125	1235	65500.0000000	21TXWQB	13444	
PAIS0100	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	871103	1257	61900.0000000	21TXWQB	13444	
PAIS0100	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	871103	1257	65800.0000000	21TXWQB	13444	
PAIS0100	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	871103	1257	66200.0000000	21TXWQB	13444	
PAIS0100	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	880426	1138	62400.0000000	21TXWQB	13444	
PAIS0100	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	880426	1138	62500.0000000	21TXWQB	13444	
PAIS0100	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	880426	1138	62700.0000000	21TXWQB	13444	
PAIS0100	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	880816	1307	69100.0000000	21TXWQB	13444	
PAIS0100	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	880816	1307	70200.0000000	21TXWQB	13444	
PAIS0100	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	880816	1307	70600.0000000	21TXWQB	13444	
PAIS0100	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	881004	1153	69000.0000000	21TXWQB	13444	
PAIS0100	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	881004	1153	69000.0000000	21TXWQB	13444	
PAIS0100	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM 25C)	890222	1405	62700.0000000	21TXWQB	13444	

Water Quality Observations
Outside STORET Edit Criteria for PAIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
PAIS0100	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	890222	1405	68200.0000000	21TXWQB	13444	
PAIS0100	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	890222	1405	68600.0000000	21TXWQB	13444	
PAIS0100	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	890417	1338	66000.0000000	21TXWQB	13444	
PAIS0100	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	890808	1139	69200.0000000	21TXWQB	13444	
PAIS0100	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	890808	1139	70500.0000000	21TXWQB	13444	
PAIS0100	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	891012	1320	75600.0000000	21TXWQB	13444	
PAIS0100	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	891012	1320	77200.0000000	21TXWQB	13444	
PAIS0100	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	900212	1226	75300.0000000	21TXWQB	13444	
PAIS0100	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	900212	1226	75500.0000000	21TXWQB	13444	
PAIS0100	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	900212	1226	75600.0000000	21TXWQB	13444	
PAIS0100	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	900412	1107	73100.0000000	21TXWQB	13444	
PAIS0100	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	900412	1107	73100.0000000	21TXWQB	13444	
PAIS0100	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	900412	1107	73100.0000000	21TXWQB	13444	
PAIS0100	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	900807	1253	67200.0000000	21TXWQB	13444	
PAIS0100	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	900807	1253	70700.0000000	21TXWQB	13444	
PAIS0100	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	900807	1253	71600.0000000	21TXWQB	13444	
PAIS0100	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	901016	1201	76700.0000000	21TXWQB	13444	
PAIS0100	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	901016	1201	77900.0000000	21TXWQB	13444	
PAIS0100	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	910116	1550	71400.0000000	21TXWQB	13444	
PAIS0100	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	910116	1550	74600.0000000	21TXWQB	13444	
PAIS0100	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	910116	1550	75400.0000000	21TXWQB	13444	
PAIS0100	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	910408	1240	69100.0000000	21TXWQB	13444	
PAIS0100	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	910408	1240	69500.0000000	21TXWQB	13444	
PAIS0100	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	910408	1240	69500.0000000	21TXWQB	13444	
PAIS0100	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	941101	1215	70800.0000000	21TXWQB	13444	
PAIS0100	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	941101	1215	70900.0000000	21TXWQB	13444	
PAIS0100	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	941227	1255	62400.0000000	21TXWQB	13444	
PAIS0100	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	941227	1255	63000.0000000	21TXWQB	13444	
PAIS0100	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	951026	1430	60500.0000000	21TXWQB	13444	
PAIS0100	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	951120	1150	60100.0000000	21TXWQB	13444	
PAIS0100	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	951120	1150	60600.0000000	21TXWQB	13444	
PAIS0100	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	960214	1420	61500.0000000	21TXWQB	13444	
PAIS0100	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	960214	1420	61500.0000000	21TXWQB	13444	
PAIS0100	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	960725	1130	67400.0000000	21TXWQB	13444	
PAIS0100	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	960725	1130	68000.0000000	21TXWQB	13444	
PAIS0100	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	721027	1215	74592.0000000	21TXWQB	13444	
PAIS0100	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	730119	1105	64288.0000000	21TXWQB	13444	
PAIS0100	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	730410	1300	71680.0000000	21TXWQB	13444	
PAIS0100	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	730703	1400	73472.0000000	21TXWQB	13444	
PAIS0100	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	740717	1350	83664.0000000	21TXWQB	13444	
PAIS0100	00095	SPECIFIC CONDUCTANCE (UMHOS/CM 25C)	741002	1400	92960.0000000	21TXWQB	13444	

Water Quality Observations
Outside STORET Edit Criteria for PAIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
PAIS0100	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	821122	1251	64000.0000000	21TXWQB	13444	
PAIS0100	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	850701	1418	78120.0000000	21TXWQB	13444	
PAIS0100	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	860527	1232	93016.0000000	21TXWQB	13444	
PAIS0100	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	860813	1515	60540.0000000	21TXWQB	13444	
PAIS0100	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	861125	1235	60135.0000000	21TXWQB	13444	
PAIS0100	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	880202	1304	86856.0000000	21TXWQB	13444	
PAIS0100	00480	SALINITY - PARTS PER THOUSAND	851114	1009	47.2000000	21TXWQB	13444	
PAIS0100	00480	SALINITY - PARTS PER THOUSAND	881004	1153	47.0000000	21TXWQB	13444	
PAIS0100	00480	SALINITY - PARTS PER THOUSAND	890222	1405	46.4000000	21TXWQB	13444	
PAIS0100	00480	SALINITY - PARTS PER THOUSAND	890222	1405	46.7000000	21TXWQB	13444	
PAIS0100	00480	SALINITY - PARTS PER THOUSAND	891012	1320	50.2000000	21TXWQB	13444	
PAIS0100	00480	SALINITY - PARTS PER THOUSAND	891012	1320	51.2000000	21TXWQB	13444	
PAIS0100	00480	SALINITY - PARTS PER THOUSAND	900212	1226	52.0000000	21TXWQB	13444	
PAIS0100	00480	SALINITY - PARTS PER THOUSAND	900212	1226	52.3000000	21TXWQB	13444	
PAIS0100	00480	SALINITY - PARTS PER THOUSAND	900412	1107	50.1000000	21TXWQB	13444	
PAIS0100	00480	SALINITY - PARTS PER THOUSAND	900412	1107	50.2000000	21TXWQB	13444	
PAIS0100	00480	SALINITY - PARTS PER THOUSAND	900807	1253	44.9000000	21TXWQB	13444	
PAIS0100	00480	SALINITY - PARTS PER THOUSAND	900807	1253	47.6000000	21TXWQB	13444	
PAIS0100	00480	SALINITY - PARTS PER THOUSAND	901016	1201	52.9000000	21TXWQB	13444	
PAIS0100	00480	SALINITY - PARTS PER THOUSAND	901016	1201	53.9000000	21TXWQB	13444	
PAIS0100	00480	SALINITY - PARTS PER THOUSAND	910116	1550	51.3000000	21TXWQB	13444	
PAIS0100	00480	SALINITY - PARTS PER THOUSAND	910116	1550	52.0000000	21TXWQB	13444	
PAIS0100	00480	SALINITY - PARTS PER THOUSAND	910408	1240	47.0000000	21TXWQB	13444	
PAIS0100	00480	SALINITY - PARTS PER THOUSAND	910408	1240	47.4000000	21TXWQB	13444	
PAIS0100	00480	SALINITY - PARTS PER THOUSAND	941101	1215	48.4000000	21TXWQB	13444	
PAIS0100	00480	SALINITY - PARTS PER THOUSAND	941101	1215	48.5000000	21TXWQB	13444	
PAIS0100	00480	SALINITY - PARTS PER THOUSAND	941227	1255	42.1000000	21TXWQB	13444	
PAIS0100	00480	SALINITY - PARTS PER THOUSAND	941227	1255	42.2000000	21TXWQB	13444	
PAIS0100	00480	SALINITY - PARTS PER THOUSAND	951026	1430	40.6000000	21TXWQB	13444	
PAIS0100	00480	SALINITY - PARTS PER THOUSAND	951120	1150	40.4000000	21TXWQB	13444	
PAIS0100	00480	SALINITY - PARTS PER THOUSAND	951120	1150	40.7000000	21TXWQB	13444	
PAIS0100	00480	SALINITY - PARTS PER THOUSAND	960214	1420	41.3000000	21TXWQB	13444	
PAIS0100	00480	SALINITY - PARTS PER THOUSAND	960214	1420	41.4000000	21TXWQB	13444	
PAIS0100	00480	SALINITY - PARTS PER THOUSAND	960725	1130	45.8000000	21TXWQB	13444	
PAIS0100	00480	SALINITY - PARTS PER THOUSAND	960725	1130	46.3000000	21TXWQB	13444	
PAIS0100	00927	MAGNESIUM, TOTAL (MG/L AS MG)	830803	1503	1200.0000000	21TXWQB	13444	
PAIS0100	00927	MAGNESIUM, TOTAL (MG/L AS MG)	840808	0100	1800.0000000	21TXWQB	13444	
PAIS0100	00929	SODIUM, TOTAL (MG/L AS NA)	830803	1503	10000.0000000	21TXWQB	13444	
PAIS0100	00929	SODIUM, TOTAL (MG/L AS NA)	840808	0100	14000.0000000	21TXWQB	13444	
PAIS0100	00940	CHLORIDE,TOTAL IN WATER MG/L	740717	1350	22020.0000000	21TXWQB	13444	
PAIS0100	00940	CHLORIDE,TOTAL IN WATER MG/L	741002	1400	24770.0000000	21TXWQB	13444	

Water Quality Observations
Outside STORET Edit Criteria for PAIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
PAIS0100	00940	CHLORIDE,TOTAL IN WATER MG/L	770907	1220	23000.0000000	21TXWQB	13444	
PAIS0100	00940	CHLORIDE,TOTAL IN WATER MG/L	780926	1120	23600.0000000	21TXWQB	13444	
PAIS0100	00940	CHLORIDE,TOTAL IN WATER MG/L	820818	1404	23100.0000000	21TXWQB	13444	
PAIS0100	00940	CHLORIDE,TOTAL IN WATER MG/L	821122	1251	22200.0000000	21TXWQB	13444	
PAIS0100	00940	CHLORIDE,TOTAL IN WATER MG/L	840808	0100	25400.0000000	21TXWQB	13444	
PAIS0100	00940	CHLORIDE,TOTAL IN WATER MG/L	841011	1327	24000.0000000	21TXWQB	13444	
PAIS0100	00940	CHLORIDE,TOTAL IN WATER MG/L	851114	1009	26076.0000000	21TXWQB	13444	
PAIS0100	00940	CHLORIDE,TOTAL IN WATER MG/L	860527	1232	23139.0000000	21TXWQB	13444	
PAIS0100	00940	CHLORIDE,TOTAL IN WATER MG/L	860813	1515	23660.0000000	21TXWQB	13444	
PAIS0100	00940	CHLORIDE,TOTAL IN WATER MG/L	861125	1235	25603.0000000	21TXWQB	13444	
PAIS0100	00940	CHLORIDE,TOTAL IN WATER MG/L	870821	1355	25050.0000000	21TXWQB	13444	
PAIS0100	00940	CHLORIDE,TOTAL IN WATER MG/L	871103	1257	24739.0000000	21TXWQB	13444	
PAIS0100	00940	CHLORIDE,TOTAL IN WATER MG/L	880426	1138	23308.0000000	21TXWQB	13444	
PAIS0100	00940	CHLORIDE,TOTAL IN WATER MG/L	880816	1307	26520.0000000	21TXWQB	13444	
PAIS0100	00940	CHLORIDE,TOTAL IN WATER MG/L	881004	1153	26354.0000000	21TXWQB	13444	
PAIS0100	00940	CHLORIDE,TOTAL IN WATER MG/L	890222	1405	31100.0000000	21TXWQB	13444	
PAIS0100	00940	CHLORIDE,TOTAL IN WATER MG/L	890417	1338	24991.0000000	21TXWQB	13444	
PAIS0100	00940	CHLORIDE,TOTAL IN WATER MG/L	891012	1320	28700.0000000	21TXWQB	13444	
PAIS0100	00940	CHLORIDE,TOTAL IN WATER MG/L	900212	1226	32000.0000000	21TXWQB	13444	
PAIS0100	00940	CHLORIDE,TOTAL IN WATER MG/L	900412	1107	29300.0000000	21TXWQB	13444	
PAIS0100	00940	CHLORIDE,TOTAL IN WATER MG/L	901016	1201	27800.0000000	21TXWQB	13444	
PAIS0100	00940	CHLORIDE,TOTAL IN WATER MG/L	910116	1550	29000.0000000	21TXWQB	13444	
PAIS0100	00940	CHLORIDE,TOTAL IN WATER MG/L	910408	1240	31100.0000000	21TXWQB	13444	
PAIS0100	00940	CHLORIDE,TOTAL IN WATER MG/L	911112	1458	24800.0000000	21TXWQB	13444	
PAIS0100	00940	CHLORIDE,TOTAL IN WATER MG/L	931007	1045	22600.0000000	21TXWQB	13444	
PAIS0100	00940	CHLORIDE,TOTAL IN WATER MG/L	941101	1215	24100.0000000	21TXWQB	13444	
PAIS0100	00940	CHLORIDE,TOTAL IN WATER MG/L	941227	1255	26800.0000000	21TXWQB	13444	
PAIS0100	00940	CHLORIDE,TOTAL IN WATER MG/L	950713	1346	23000.0000000	21TXWQB	13444	
PAIS0100	00940	CHLORIDE,TOTAL IN WATER MG/L	960725	1130	25400.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	721027	1215	2720.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	730410	1300	2740.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	730703	1400	2550.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	740717	1350	3280.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	741002	1400	3630.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	750108	1355	2780.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	750707	1340	2770.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	751027	1350	3172.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	760106	1340	3294.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	760426	1330	3600.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	760706	1410	3600.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	761007	1225	2600.0000000	21TXWQB	13444	

Water Quality Observations
Outside STORET Edit Criteria for PAIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	770907	1220	3000.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	780926	1120	3700.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	790213	1254	2700.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	790516	1100	3600.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	790810	1225	3100.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	800507	1116	2700.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	810224	1048	2800.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	820818	1404	3500.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	821122	1251	4400.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	830218	1418	3000.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	830505	1055	3200.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	830803	1503	3000.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	840313	1300	2800.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	840627	1434	3300.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	840808	0100	4600.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	841011	1327	3600.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	850108	1348	3300.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	850508	1120	3080.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	850701	1418	2936.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	851114	1009	2600.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	860218	1230	2720.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	860527	1232	3564.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	860813	1515	2940.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	861125	1235	3270.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	870211	1152	2712.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	870507	1250	2603.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	871103	1257	3418.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	880202	1304	3065.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	880426	1138	3395.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	880816	1307	3864.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	881004	1153	3840.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	890222	1405	3250.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	890417	1338	3117.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	890808	1139	3560.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	891012	1320	3200.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	900212	1226	5120.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	900412	1107	3800.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	900807	1253	3850.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	901016	1201	4600.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	910116	1550	3460.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	910408	1240	3930.0000000	21TXWQB	13444	

Water Quality Observations
Outside STORET Edit Criteria for PAIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	910716	1350	2990.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	911112	1458	3250.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	920121	1356	2560.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	920730	1307	2840.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	921001	1439	2920.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	930114	1305	2670.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	930511	1216	2710.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	931007	1045	3120.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	940222	1328	2790.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	940421	0918	2600.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	940608	1405	2950.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	941101	1215	3220.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	941227	1255	5980.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	950406	1325	3190.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	950713	1346	3080.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	951120	1150	3030.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	960214	1420	3360.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	960425	1400	3420.0000000	21TXWQB	13444	
PAIS0100	00945	SULFATE, TOTAL (MG/L AS SO4)	960725	1130	3930.0000000	21TXWQB	13444	
PAIS0100	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	770907	1220	44000.0000000	21TXWQB	13444	
PAIS0100	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	851114	1009	41109.0000000	21TXWQB	13444	
PAIS0100	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	880426	1138	42710.0000000	21TXWQB	13444	
PAIS0100	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	940222	1328	33800.0000000	21TXWQB	13444	
PAIS0100	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	940421	0918	34700.0000000	21TXWQB	13444	
PAIS0100	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	940608	1405	35500.0000000	21TXWQB	13444	
PAIS0100	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	941101	1215	43000.0000000	21TXWQB	13444	
PAIS0100	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	941227	1255	43700.0000000	21TXWQB	13444	
PAIS0100	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	950406	1325	37500.0000000	21TXWQB	13444	
PAIS0100	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	950713	1346	43300.0000000	21TXWQB	13444	
PAIS0100	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	951120	1150	43200.0000000	21TXWQB	13444	
PAIS0100	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	960214	1420	40400.0000000	21TXWQB	13444	
PAIS0100	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	960425	1400	47100.0000000	21TXWQB	13444	
PAIS0100	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	960725	1130	4710.0000000	21TXWQB	13444	
PAIS0101	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	721027		74592.0000000	11NPSWRD	PAIS_2491_100	
PAIS0101	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	730119		64288.0000000	11NPSWRD	PAIS_2491_100	
PAIS0101	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	730410		71680.0000000	11NPSWRD	PAIS_2491_100	
PAIS0101	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	730703		73472.0000000	11NPSWRD	PAIS_2491_100	
PAIS0101	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	740717		83664.0000000	11NPSWRD	PAIS_2491_100	
PAIS0113	00480	SALINITY - PARTS PER THOUSAND	710115		47.1000000	11NPSWRD	PAIS_SIMM_32	
PAIS0113	00480	SALINITY - PARTS PER THOUSAND	710315		52.1000000	11NPSWRD	PAIS_SIMM_32	
PAIS0113	00480	SALINITY - PARTS PER THOUSAND	710415		47.7000000	11NPSWRD	PAIS_SIMM_32	

Water Quality Observations
Outside STORET Edit Criteria for PAIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
PAIS0113	00480	SALINITY - PARTS PER THOUSAND	710515		48.8000000	11NPSWRD	PAIS_SIMM_32	
PAIS0113	00480	SALINITY - PARTS PER THOUSAND	710715		47.1000000	11NPSWRD	PAIS_SIMM_32	
PAIS0113	00480	SALINITY - PARTS PER THOUSAND	710815		51.0000000	11NPSWRD	PAIS_SIMM_32	
PAIS0117	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690916	1320	75000.0000000	11NPSWRD	PAIS_TWDB_05-1	
PAIS0117	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690916	1320	75000.0000000	11NPSWRD	PAIS_TWDB_05-1	
PAIS0118	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690916	1300	71000.0000000	11NPSWRD	PAIS_TWDB_05-2	
PAIS0118	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690916	1300	71000.0000000	11NPSWRD	PAIS_TWDB_05-2	
PAIS0118	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690916	1300	75000.0000000	11NPSWRD	PAIS_TWDB_05-2	
PAIS0118	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690916	1300	75000.0000000	11NPSWRD	PAIS_TWDB_05-2	
PAIS0118	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	680827	1555	1420.0000000	11NPSWRD	PAIS_TWDB_05-2	
PAIS0118	00945	SULFATE, TOTAL (MG/L AS SO4)	680827	1555	2720.0000000	11NPSWRD	PAIS_TWDB_05-2	
PAIS0119	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690916	1320	75000.0000000	112WRD	272104097222800	
PAIS0119	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690916	1321	75000.0000000	112WRD	272104097222800	
PAIS0119	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	741023	1515	62000.0000000	112WRD	272104097222800	
PAIS0119	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	741023	1516	63000.0000000	112WRD	272104097222800	
PAIS0119	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	780627	1534	62000.0000000	112WRD	272104097222800	
PAIS0119	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	780627	1536	62300.0000000	112WRD	272104097222800	
PAIS0119	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	720928	1120	236.0000000	112WRD	272104097222800	
PAIS0119	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	720928	1121	222.0000000	112WRD	272104097222800	
PAIS0119	00900	HARDNESS, TOTAL (MG/L AS CACO3)	770622	1220	6600.0000000	112WRD	272104097222800	
PAIS0119	00900	HARDNESS, TOTAL (MG/L AS CACO3)	780301	1154	6500.0000000	112WRD	272104097222800	
PAIS0119	00900	HARDNESS, TOTAL (MG/L AS CACO3)	790411	1210	6800.0000000	112WRD	272104097222800	
PAIS0119	00900	HARDNESS, TOTAL (MG/L AS CACO3)	800716	1210	7400.0000000	112WRD	272104097222800	
PAIS0119	00900	HARDNESS, TOTAL (MG/L AS CACO3)	801118	1048	5500.0000000	112WRD	272104097222800	
PAIS0119	00900	HARDNESS, TOTAL (MG/L AS CACO3)	810324	1040	5500.0000000	112WRD	272104097222800	
PAIS0119	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	770622	1220	1300.0000000	112WRD	272104097222800	
PAIS0119	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	780301	1154	1300.0000000	112WRD	272104097222800	
PAIS0119	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	790411	1210	1400.0000000	112WRD	272104097222800	
PAIS0119	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	791011	1045	1100.0000000	112WRD	272104097222800	
PAIS0119	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	800716	1210	1500.0000000	112WRD	272104097222800	
PAIS0119	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	801118	1048	1100.0000000	112WRD	272104097222800	
PAIS0119	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	810324	1040	1100.0000000	112WRD	272104097222800	
PAIS0119	00930	SODIUM, DISSOLVED (MG/L AS NA)	770622	1220	12000.0000000	112WRD	272104097222800	
PAIS0119	00930	SODIUM, DISSOLVED (MG/L AS NA)	780301	1154	11000.0000000	112WRD	272104097222800	
PAIS0119	00930	SODIUM, DISSOLVED (MG/L AS NA)	790411	1210	12000.0000000	112WRD	272104097222800	
PAIS0119	00930	SODIUM, DISSOLVED (MG/L AS NA)	791011	1045	9000.0000000	112WRD	272104097222800	
PAIS0119	00930	SODIUM, DISSOLVED (MG/L AS NA)	800716	1210	12000.0000000	112WRD	272104097222800	
PAIS0119	00930	SODIUM, DISSOLVED (MG/L AS NA)	801118	1048	8800.0000000	112WRD	272104097222800	
PAIS0119	00930	SODIUM, DISSOLVED (MG/L AS NA)	810324	1040	8900.0000000	112WRD	272104097222800	
PAIS0119	00930	SODIUM, DISSOLVED (MG/L AS NA)	811215	1030	8800.0000000	112WRD	272104097222800	
PAIS0119	00930	SODIUM, DISSOLVED (MG/L AS NA)	820330	1145	8100.0000000	112WRD	272104097222800	

Water Quality Observations
Outside STORET Edit Criteria for PAIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
PAIS0119	00931	SODIUM ADSORPTION RATIO	770622	1220	65.0000000	112WRD	272104097222800	
PAIS0119	00931	SODIUM ADSORPTION RATIO	780301	1154	59.0000000	112WRD	272104097222800	
PAIS0119	00931	SODIUM ADSORPTION RATIO	790411	1210	63.0000000	112WRD	272104097222800	
PAIS0119	00931	SODIUM ADSORPTION RATIO	791011	1045	55.0000000	112WRD	272104097222800	
PAIS0119	00931	SODIUM ADSORPTION RATIO	800716	1210	61.0000000	112WRD	272104097222800	
PAIS0119	00931	SODIUM ADSORPTION RATIO	801118	1048	52.0000000	112WRD	272104097222800	
PAIS0119	00931	SODIUM ADSORPTION RATIO	810324	1040	52.0000000	112WRD	272104097222800	
PAIS0119	00931	SODIUM ADSORPTION RATIO	811215	1030	55.0000000	112WRD	272104097222800	
PAIS0119	00935	POTASSIUM, DISSOLVED (MG/L AS K)	770622	1220	380.0000000	112WRD	272104097222800	
PAIS0119	00935	POTASSIUM, DISSOLVED (MG/L AS K)	780301	1154	460.0000000	112WRD	272104097222800	
PAIS0119	00935	POTASSIUM, DISSOLVED (MG/L AS K)	790411	1210	440.0000000	112WRD	272104097222800	
PAIS0119	00935	POTASSIUM, DISSOLVED (MG/L AS K)	800716	1210	650.0000000	112WRD	272104097222800	
PAIS0119	00935	POTASSIUM, DISSOLVED (MG/L AS K)	801118	1048	440.0000000	112WRD	272104097222800	
PAIS0119	00935	POTASSIUM, DISSOLVED (MG/L AS K)	810324	1040	270.0000000	112WRD	272104097222800	
PAIS0119	00935	POTASSIUM, DISSOLVED (MG/L AS K)	811215	1030	320.0000000	112WRD	272104097222800	
PAIS0119	00935	POTASSIUM, DISSOLVED (MG/L AS K)	820330	1145	220.0000000	112WRD	272104097222800	
PAIS0119	00945	SULFATE, TOTAL (MG/L AS SO4)	770622	1220	2900.0000000	112WRD	272104097222800	
PAIS0119	00945	SULFATE, TOTAL (MG/L AS SO4)	780301	1154	2700.0000000	112WRD	272104097222800	
PAIS0119	00945	SULFATE, TOTAL (MG/L AS SO4)	790411	1210	3300.0000000	112WRD	272104097222800	
PAIS0119	00945	SULFATE, TOTAL (MG/L AS SO4)	800716	1210	3300.0000000	112WRD	272104097222800	
PAIS0121	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690916	1300	75000.0000000	112WRD	272116097230200	
PAIS0121	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690916	1301	75000.0000000	112WRD	272116097230200	
PAIS0121	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690916	1302	71000.0000000	112WRD	272116097230200	
PAIS0121	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690916	1303	71000.0000000	112WRD	272116097230200	
PAIS0121	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	741023	1501	62000.0000000	112WRD	272116097230200	
PAIS0121	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	741023	1502	62000.0000000	112WRD	272116097230200	
PAIS0121	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	741023	1503	62000.0000000	112WRD	272116097230200	
PAIS0121	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	750604	1500	63000.0000000	112WRD	272116097230200	
PAIS0121	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	750604	1501	63000.0000000	112WRD	272116097230200	
PAIS0121	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	750604	1502	63000.0000000	112WRD	272116097230200	
PAIS0121	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	800716	1205	63000.0000000	112WRD	272116097230200	
PAIS0121	00900	HARDNESS, TOTAL (MG/L AS CACO3)	680827	1558	7000.0000000	112WRD	272116097230200	
PAIS0121	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	680827	1558	1420.0000000	112WRD	272116097230200	
PAIS0121	00930	SODIUM, DISSOLVED (MG/L AS NA)	680827	1558	11100.0000000	112WRD	272116097230200	
PAIS0121	00930	SODIUM, DISSOLVED (MG/L AS NA)	770201	1615	7000.0000000	112WRD	272116097230200	
PAIS0121	00931	SODIUM ADSORPTION RATIO	680827	1558	58.0000000	112WRD	272116097230200	
PAIS0121	00935	POTASSIUM, DISSOLVED (MG/L AS K)	770201	1615	280.0000000	112WRD	272116097230200	
PAIS0121	00945	SULFATE, TOTAL (MG/L AS SO4)	680827	1558	2720.0000000	112WRD	272116097230200	
PAIS0129	00480	SALINITY - PARTS PER THOUSAND	710115		45.5000000	11NPSWRD	PAIS_SIMM_31	
PAIS0129	00480	SALINITY - PARTS PER THOUSAND	710315		53.2000000	11NPSWRD	PAIS_SIMM_31	
PAIS0129	00480	SALINITY - PARTS PER THOUSAND	710415		51.0000000	11NPSWRD	PAIS_SIMM_31	

Water Quality Observations
Outside STORET Edit Criteria for PAIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
PAIS0129	00480	SALINITY - PARTS PER THOUSAND	710515		47.7000000	11NPSWRD	PAIS_SIMM_31	
PAIS0129	00480	SALINITY - PARTS PER THOUSAND	710615		46.6000000	11NPSWRD	PAIS_SIMM_31	
PAIS0129	00480	SALINITY - PARTS PER THOUSAND	710715		47.7000000	11NPSWRD	PAIS_SIMM_31	
PAIS0129	00480	SALINITY - PARTS PER THOUSAND	710815		47.1000000	11NPSWRD	PAIS_SIMM_31	
PAIS0133	00480	SALINITY - PARTS PER THOUSAND	750613		41.3000000	11NPSWRD	PAIS_SMEV_75	
PAIS0135	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690916	1345	71000.0000000	11NPSWRD	PAIS_TWDB_04-2	
PAIS0135	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690916	1345	73000.0000000	11NPSWRD	PAIS_TWDB_04-2	
PAIS0135	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690916	1345	75000.0000000	11NPSWRD	PAIS_TWDB_04-2	
PAIS0135	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690916	1345	75000.0000000	11NPSWRD	PAIS_TWDB_04-2	
PAIS0138	00480	SALINITY - PARTS PER THOUSAND	710115		46.6000000	11NPSWRD	PAIS_SIMM_30	
PAIS0138	00480	SALINITY - PARTS PER THOUSAND	710315		52.1000000	11NPSWRD	PAIS_SIMM_30	
PAIS0138	00480	SALINITY - PARTS PER THOUSAND	710415		51.6000000	11NPSWRD	PAIS_SIMM_30	
PAIS0138	00480	SALINITY - PARTS PER THOUSAND	710515		53.2000000	11NPSWRD	PAIS_SIMM_30	
PAIS0138	00480	SALINITY - PARTS PER THOUSAND	710615		47.7000000	11NPSWRD	PAIS_SIMM_30	
PAIS0138	00480	SALINITY - PARTS PER THOUSAND	710715		48.8000000	11NPSWRD	PAIS_SIMM_30	
PAIS0138	00480	SALINITY - PARTS PER THOUSAND	710815		48.2000000	11NPSWRD	PAIS_SIMM_30	
PAIS0140	00480	SALINITY - PARTS PER THOUSAND	710115		41.0000000	11NPSWRD	PAIS_SIMM_29	
PAIS0140	00480	SALINITY - PARTS PER THOUSAND	710215		42.1000000	11NPSWRD	PAIS_SIMM_29	
PAIS0140	00480	SALINITY - PARTS PER THOUSAND	710315		52.1000000	11NPSWRD	PAIS_SIMM_29	
PAIS0140	00480	SALINITY - PARTS PER THOUSAND	710415		50.5000000	11NPSWRD	PAIS_SIMM_29	
PAIS0140	00480	SALINITY - PARTS PER THOUSAND	710515		54.4000000	11NPSWRD	PAIS_SIMM_29	
PAIS0140	00480	SALINITY - PARTS PER THOUSAND	710615		47.7000000	11NPSWRD	PAIS_SIMM_29	
PAIS0140	00480	SALINITY - PARTS PER THOUSAND	710715		48.8000000	11NPSWRD	PAIS_SIMM_29	
PAIS0140	00480	SALINITY - PARTS PER THOUSAND	710815		42.7000000	11NPSWRD	PAIS_SIMM_29	
PAIS0146	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690916	1345	75000.0000000	112WRD	272610097203800	
PAIS0146	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690916	1346	75000.0000000	112WRD	272610097203800	
PAIS0146	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690916	1347	73000.0000000	112WRD	272610097203800	
PAIS0146	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690916	1348	71000.0000000	112WRD	272610097203800	
PAIS0146	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	750604	1515	63000.0000000	112WRD	272610097203800	
PAIS0146	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	750604	1516	63000.0000000	112WRD	272610097203800	
PAIS0146	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	750604	1517	63000.0000000	112WRD	272610097203800	
PAIS0146	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	720928	1140	214.0000000	112WRD	272610097203800	
PAIS0148	00480	SALINITY - PARTS PER THOUSAND	750613		41.1000000	11NPSWRD	PAIS_SMEV_69	
PAIS0149	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	740717		85176.0000000	11NPSWRD	PAIS_2491_200	
PAIS0157	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	780520		6106.0000000	11NPSWRD	PAIS_HANN_EP3	
PAIS0158	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	780520		6921.0000000	11NPSWRD	PAIS_HANN_PP1	
PAIS0175	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	940829	1348	62900.0000000	21TXWQB	15006	
PAIS0175	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	940829	1348	62900.0000000	21TXWQB	15006	
PAIS0175	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	940830	1340	63300.0000000	21TXWQB	15006	
PAIS0175	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	940830	1340	63400.0000000	21TXWQB	15006	
PAIS0175	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM 25C)	940921	0944	60600.0000000	21TXWQB	15006	

Water Quality Observations
Outside STORET Edit Criteria for PAIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
PAIS0175	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	940921	0944	61800.0000000	21TXWQB	15006	
PAIS0175	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	940926	1252	65800.0000000	21TXWQB	15006	
PAIS0175	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	940926	1252	66300.0000000	21TXWQB	15006	
PAIS0175	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	940927	1013	67600.0000000	21TXWQB	15006	
PAIS0175	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	940927	1013	67600.0000000	21TXWQB	15006	
PAIS0175	00480	SALINITY - PARTS PER THOUSAND	940829	1348	42.5000000	21TXWQB	15006	
PAIS0175	00480	SALINITY - PARTS PER THOUSAND	940830	1340	42.7000000	21TXWQB	15006	
PAIS0175	00480	SALINITY - PARTS PER THOUSAND	940830	1340	42.8000000	21TXWQB	15006	
PAIS0175	00480	SALINITY - PARTS PER THOUSAND	940921	0944	41.6000000	21TXWQB	15006	
PAIS0175	00480	SALINITY - PARTS PER THOUSAND	940926	1252	45.0000000	21TXWQB	15006	
PAIS0175	00480	SALINITY - PARTS PER THOUSAND	940927	1013	46.0000000	21TXWQB	15006	
PAIS0181	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	750108	1435	62328.0000000	21TEXWR	24910200	
PAIS0181	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	750409	1750	62380.0000000	21TEXWR	24910200	
PAIS0181	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	750707	1450	63500.0000000	21TEXWR	24910200	
PAIS0181	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	760426	1455	60250.0000000	21TEXWR	24910200	
PAIS0181	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	760706	1320	61000.0000000	21TEXWR	24910200	
PAIS0181	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	770706	1335	68000.0000000	21TEXWR	24910200	
PAIS0182	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	780606	1245	65000.0000000	21TXWQB	13445	
PAIS0182	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	780606	1245	65000.0000000	21TXWQB	13445	
PAIS0182	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	820818	1441	66900.0000000	21TXWQB	13445	
PAIS0182	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	821122	1431	62000.0000000	21TXWQB	13445	
PAIS0182	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	821122	1431	62100.0000000	21TXWQB	13445	
PAIS0182	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	821122	1431	62300.0000000	21TXWQB	13445	
PAIS0182	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	840627	1500	66000.0000000	21TXWQB	13445	
PAIS0182	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	840627	1500	68000.0000000	21TXWQB	13445	
PAIS0182	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	840627	1500	68500.0000000	21TXWQB	13445	
PAIS0182	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	841011	1406	80000.0000000	21TXWQB	13445	
PAIS0182	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	841011	1406	84000.0000000	21TXWQB	13445	
PAIS0182	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	850108	1629	60600.0000000	21TXWQB	13445	
PAIS0182	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	860429	1112	64500.0000000	21TXWQB	13445	
PAIS0182	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	860429	1112	64600.0000000	21TXWQB	13445	
PAIS0182	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	871103	1326	62000.0000000	21TXWQB	13445	
PAIS0182	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	871103	1326	62100.0000000	21TXWQB	13445	
PAIS0182	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	880426	1516	60400.0000000	21TXWQB	13445	
PAIS0182	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	880426	1516	60600.0000000	21TXWQB	13445	
PAIS0182	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	880816	1337	68300.0000000	21TXWQB	13445	
PAIS0182	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	880816	1337	70600.0000000	21TXWQB	13445	
PAIS0182	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	880816	1337	71900.0000000	21TXWQB	13445	
PAIS0182	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	881004	1519	65000.0000000	21TXWQB	13445	
PAIS0182	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	881004	1519	65200.0000000	21TXWQB	13445	
PAIS0182	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM 25C)	881004	1519	65200.0000000	21TXWQB	13445	

Water Quality Observations
Outside STORET Edit Criteria for PAIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
PAIS0182	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	890417	1441	63100.0000000	21TXWQB	13445	
PAIS0182	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	890808	0926	69700.0000000	21TXWQB	13445	
PAIS0182	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	890808	0926	70200.0000000	21TXWQB	13445	
PAIS0182	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	890808	0926	71000.0000000	21TXWQB	13445	
PAIS0182	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	891012	1404	66700.0000000	21TXWQB	13445	
PAIS0182	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	891012	1404	67600.0000000	21TXWQB	13445	
PAIS0182	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	900212	1302	64200.0000000	21TXWQB	13445	
PAIS0182	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	900212	1302	69700.0000000	21TXWQB	13445	
PAIS0182	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	900212	1302	70600.0000000	21TXWQB	13445	
PAIS0182	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	900807	1342	67000.0000000	21TXWQB	13445	
PAIS0182	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	900807	1342	67100.0000000	21TXWQB	13445	
PAIS0182	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	901016	1243	76700.0000000	21TXWQB	13445	
PAIS0182	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	901016	1243	77500.0000000	21TXWQB	13445	
PAIS0182	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	901016	1243	77600.0000000	21TXWQB	13445	
PAIS0182	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	910116	1253	65000.0000000	21TXWQB	13445	
PAIS0182	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	910116	1253	66300.0000000	21TXWQB	13445	
PAIS0182	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	910408	1323	64100.0000000	21TXWQB	13445	
PAIS0182	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	910408	1323	65300.0000000	21TXWQB	13445	
PAIS0182	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	910408	1323	65700.0000000	21TXWQB	13445	
PAIS0182	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	940829	1334	62900.0000000	21TXWQB	13445	
PAIS0182	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	940829	1334	63000.0000000	21TXWQB	13445	
PAIS0182	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	940830	1324	63800.0000000	21TXWQB	13445	
PAIS0182	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	940830	1324	63900.0000000	21TXWQB	13445	
PAIS0182	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	940921	0931	62100.0000000	21TXWQB	13445	
PAIS0182	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	940921	0931	62500.0000000	21TXWQB	13445	
PAIS0182	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	940926	1238	65700.0000000	21TXWQB	13445	
PAIS0182	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	940926	1238	66200.0000000	21TXWQB	13445	
PAIS0182	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	940927	1000	66300.0000000	21TXWQB	13445	
PAIS0182	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	940927	1000	66400.0000000	21TXWQB	13445	
PAIS0182	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	950626	1458	61500.0000000	21TXWQB	13445	
PAIS0182	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	950626	1458	61900.0000000	21TXWQB	13445	
PAIS0182	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	960430	1445	65500.0000000	21TXWQB	13445	
PAIS0182	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	960430	1445	65500.0000000	21TXWQB	13445	
PAIS0182	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	960729	1355	69900.0000000	21TXWQB	13445	
PAIS0182	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	740717	1440	85176.0000000	21TXWQB	13445	
PAIS0182	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	741002	1445	76608.0000000	21TXWQB	13445	
PAIS0182	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	850701	1500	78624.0000000	21TXWQB	13445	
PAIS0182	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	860429	1112	95480.0000000	21TXWQB	13445	
PAIS0182	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	870806	1437	62300.0000000	21TXWQB	13445	
PAIS0182	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	880202	1331	74088.0000000	21TXWQB	13445	
PAIS0182	00340	COD, .25N K2CR2O7 MG/L	750108	1435	142300.0000000	21TXWQB	13445	X

Water Quality Observations
Outside STORET Edit Criteria for PAIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
PAIS0182	00480	SALINITY - PARTS PER THOUSAND	851114	1120	47.8000000	21TXWQB	13445	
PAIS0182	00480	SALINITY - PARTS PER THOUSAND	881004	1519	44.0000000	21TXWQB	13445	
PAIS0182	00480	SALINITY - PARTS PER THOUSAND	881004	1519	44.0000000	21TXWQB	13445	
PAIS0182	00480	SALINITY - PARTS PER THOUSAND	891012	1404	44.4000000	21TXWQB	13445	
PAIS0182	00480	SALINITY - PARTS PER THOUSAND	891012	1404	45.0000000	21TXWQB	13445	
PAIS0182	00480	SALINITY - PARTS PER THOUSAND	900212	1302	43.5000000	21TXWQB	13445	
PAIS0182	00480	SALINITY - PARTS PER THOUSAND	900212	1302	48.3000000	21TXWQB	13445	
PAIS0182	00480	SALINITY - PARTS PER THOUSAND	900807	1342	44.6000000	21TXWQB	13445	
PAIS0182	00480	SALINITY - PARTS PER THOUSAND	900807	1342	44.6000000	21TXWQB	13445	
PAIS0182	00480	SALINITY - PARTS PER THOUSAND	901016	1243	53.1000000	21TXWQB	13445	
PAIS0182	00480	SALINITY - PARTS PER THOUSAND	901016	1243	53.7000000	21TXWQB	13445	
PAIS0182	00480	SALINITY - PARTS PER THOUSAND	910116	1253	43.1000000	21TXWQB	13445	
PAIS0182	00480	SALINITY - PARTS PER THOUSAND	910116	1253	44.9000000	21TXWQB	13445	
PAIS0182	00480	SALINITY - PARTS PER THOUSAND	910408	1323	43.5000000	21TXWQB	13445	
PAIS0182	00480	SALINITY - PARTS PER THOUSAND	910408	1323	44.5000000	21TXWQB	13445	
PAIS0182	00480	SALINITY - PARTS PER THOUSAND	940829	1334	42.6000000	21TXWQB	13445	
PAIS0182	00480	SALINITY - PARTS PER THOUSAND	940830	1324	43.1000000	21TXWQB	13445	
PAIS0182	00480	SALINITY - PARTS PER THOUSAND	940921	0931	42.1000000	21TXWQB	13445	
PAIS0182	00480	SALINITY - PARTS PER THOUSAND	940926	1238	44.6000000	21TXWQB	13445	
PAIS0182	00480	SALINITY - PARTS PER THOUSAND	940926	1238	45.0000000	21TXWQB	13445	
PAIS0182	00480	SALINITY - PARTS PER THOUSAND	940927	1000	45.0000000	21TXWQB	13445	
PAIS0182	00480	SALINITY - PARTS PER THOUSAND	950626	1458	41.4000000	21TXWQB	13445	
PAIS0182	00480	SALINITY - PARTS PER THOUSAND	950626	1458	41.8000000	21TXWQB	13445	
PAIS0182	00480	SALINITY - PARTS PER THOUSAND	960430	1445	44.3000000	21TXWQB	13445	
PAIS0182	00480	SALINITY - PARTS PER THOUSAND	960430	1445	44.3000000	21TXWQB	13445	
PAIS0182	00480	SALINITY - PARTS PER THOUSAND	960729	1355	47.7000000	21TXWQB	13445	
PAIS0182	00927	MAGNESIUM, TOTAL (MG/L AS MG)	830803	1536	1200.0000000	21TXWQB	13445	
PAIS0182	00929	SODIUM, TOTAL (MG/L AS NA)	830803	1536	10000.0000000	21TXWQB	13445	
PAIS0182	00940	CHLORIDE,TOTAL IN WATER MG/L	740717	1440	23130.0000000	21TXWQB	13445	
PAIS0182	00940	CHLORIDE,TOTAL IN WATER MG/L	771205	1415	26600.0000000	21TXWQB	13445	
PAIS0182	00940	CHLORIDE,TOTAL IN WATER MG/L	780606	1245	24200.0000000	21TXWQB	13445	
PAIS0182	00940	CHLORIDE,TOTAL IN WATER MG/L	820818	1441	22400.0000000	21TXWQB	13445	
PAIS0182	00940	CHLORIDE,TOTAL IN WATER MG/L	830505	1252	23100.0000000	21TXWQB	13445	
PAIS0182	00940	CHLORIDE,TOTAL IN WATER MG/L	840627	1500	23200.0000000	21TXWQB	13445	
PAIS0182	00940	CHLORIDE,TOTAL IN WATER MG/L	841011	1406	26000.0000000	21TXWQB	13445	
PAIS0182	00940	CHLORIDE,TOTAL IN WATER MG/L	850501	1417	22600.0000000	21TXWQB	13445	
PAIS0182	00940	CHLORIDE,TOTAL IN WATER MG/L	851114	1120	26490.0000000	21TXWQB	13445	
PAIS0182	00940	CHLORIDE,TOTAL IN WATER MG/L	860429	1112	24099.0000000	21TXWQB	13445	
PAIS0182	00940	CHLORIDE,TOTAL IN WATER MG/L	860813	1543	24200.0000000	21TXWQB	13445	
PAIS0182	00940	CHLORIDE,TOTAL IN WATER MG/L	871103	1326	22956.0000000	21TXWQB	13445	
PAIS0182	00940	CHLORIDE,TOTAL IN WATER MG/L	880426	1516	22015.0000000	21TXWQB	13445	

Water Quality Observations
Outside STORET Edit Criteria for PAIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
PAIS0182	00940	CHLORIDE,TOTAL IN WATER MG/L	880816	1337	26203.0000000	21TXWQB	13445	
PAIS0182	00940	CHLORIDE,TOTAL IN WATER MG/L	881004	1519	25145.0000000	21TXWQB	13445	
PAIS0182	00940	CHLORIDE,TOTAL IN WATER MG/L	890222	1446	23100.0000000	21TXWQB	13445	
PAIS0182	00940	CHLORIDE,TOTAL IN WATER MG/L	890417	1441	23987.0000000	21TXWQB	13445	
PAIS0182	00940	CHLORIDE,TOTAL IN WATER MG/L	891012	1404	24700.0000000	21TXWQB	13445	
PAIS0182	00940	CHLORIDE,TOTAL IN WATER MG/L	900212	1302	23800.0000000	21TXWQB	13445	
PAIS0182	00940	CHLORIDE,TOTAL IN WATER MG/L	901016	1243	27300.0000000	21TXWQB	13445	
PAIS0182	00940	CHLORIDE,TOTAL IN WATER MG/L	910408	1323	30200.0000000	21TXWQB	13445	
PAIS0182	00940	CHLORIDE,TOTAL IN WATER MG/L	931007	0900	23600.0000000	21TXWQB	13445	
PAIS0182	00940	CHLORIDE,TOTAL IN WATER MG/L	941227	1200	23500.0000000	21TXWQB	13445	
PAIS0182	00940	CHLORIDE,TOTAL IN WATER MG/L	950626	1458	22900.0000000	21TXWQB	13445	
PAIS0182	00940	CHLORIDE,TOTAL IN WATER MG/L	960430	1445	24000.0000000	21TXWQB	13445	
PAIS0182	00940	CHLORIDE,TOTAL IN WATER MG/L	960729	1355	27200.0000000	21TXWQB	13445	
PAIS0182	00945	SULFATE, TOTAL (MG/L AS SO4)	740717	1440	3280.0000000	21TXWQB	13445	
PAIS0182	00945	SULFATE, TOTAL (MG/L AS SO4)	741002	1445	2890.0000000	21TXWQB	13445	
PAIS0182	00945	SULFATE, TOTAL (MG/L AS SO4)	750707	1450	2902.0000000	21TXWQB	13445	
PAIS0182	00945	SULFATE, TOTAL (MG/L AS SO4)	751027	1550	2575.0000000	21TXWQB	13445	
PAIS0182	00945	SULFATE, TOTAL (MG/L AS SO4)	760106	1405	2796.0000000	21TXWQB	13445	
PAIS0182	00945	SULFATE, TOTAL (MG/L AS SO4)	760426	1455	3800.0000000	21TXWQB	13445	
PAIS0182	00945	SULFATE, TOTAL (MG/L AS SO4)	761007	1455	3100.0000000	21TXWQB	13445	
PAIS0182	00945	SULFATE, TOTAL (MG/L AS SO4)	770406	1445	2600.0000000	21TXWQB	13445	
PAIS0182	00945	SULFATE, TOTAL (MG/L AS SO4)	770706	1335	2600.0000000	21TXWQB	13445	
PAIS0182	00945	SULFATE, TOTAL (MG/L AS SO4)	770907	1305	2800.0000000	21TXWQB	13445	
PAIS0182	00945	SULFATE, TOTAL (MG/L AS SO4)	771205	1415	3600.0000000	21TXWQB	13445	
PAIS0182	00945	SULFATE, TOTAL (MG/L AS SO4)	780606	1245	3700.0000000	21TXWQB	13445	
PAIS0182	00945	SULFATE, TOTAL (MG/L AS SO4)	780926	1205	3000.0000000	21TXWQB	13445	
PAIS0182	00945	SULFATE, TOTAL (MG/L AS SO4)	790516	1430	3400.0000000	21TXWQB	13445	
PAIS0182	00945	SULFATE, TOTAL (MG/L AS SO4)	790810	1330	3000.0000000	21TXWQB	13445	
PAIS0182	00945	SULFATE, TOTAL (MG/L AS SO4)	800507	1615	2600.0000000	21TXWQB	13445	
PAIS0182	00945	SULFATE, TOTAL (MG/L AS SO4)	801106	1255	2700.0000000	21TXWQB	13445	
PAIS0182	00945	SULFATE, TOTAL (MG/L AS SO4)	810224	1123	2700.0000000	21TXWQB	13445	
PAIS0182	00945	SULFATE, TOTAL (MG/L AS SO4)	810512	1014	2600.0000000	21TXWQB	13445	
PAIS0182	00945	SULFATE, TOTAL (MG/L AS SO4)	810814	1010	2600.0000000	21TXWQB	13445	
PAIS0182	00945	SULFATE, TOTAL (MG/L AS SO4)	820818	1441	3300.0000000	21TXWQB	13445	
PAIS0182	00945	SULFATE, TOTAL (MG/L AS SO4)	821122	1431	3400.0000000	21TXWQB	13445	
PAIS0182	00945	SULFATE, TOTAL (MG/L AS SO4)	830505	1252	3300.0000000	21TXWQB	13445	
PAIS0182	00945	SULFATE, TOTAL (MG/L AS SO4)	830803	1536	2700.0000000	21TXWQB	13445	
PAIS0182	00945	SULFATE, TOTAL (MG/L AS SO4)	840627	1500	3400.0000000	21TXWQB	13445	
PAIS0182	00945	SULFATE, TOTAL (MG/L AS SO4)	841011	1406	3700.0000000	21TXWQB	13445	
PAIS0182	00945	SULFATE, TOTAL (MG/L AS SO4)	850108	1629	3200.0000000	21TXWQB	13445	
PAIS0182	00945	SULFATE, TOTAL (MG/L AS SO4)	850501	1417	3600.0000000	21TXWQB	13445	

Water Quality Observations
Outside STORET Edit Criteria for PAIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
PAIS0182	00945	SULFATE, TOTAL (MG/L AS SO4)	850701	1500	3057.0000000	21TXWQB	13445	
PAIS0182	00945	SULFATE, TOTAL (MG/L AS SO4)	851114	1120	2660.0000000	21TXWQB	13445	
PAIS0182	00945	SULFATE, TOTAL (MG/L AS SO4)	860429	1112	3658.0000000	21TXWQB	13445	
PAIS0182	00945	SULFATE, TOTAL (MG/L AS SO4)	860813	1543	2980.0000000	21TXWQB	13445	
PAIS0182	00945	SULFATE, TOTAL (MG/L AS SO4)	861125	1304	2920.0000000	21TXWQB	13445	
PAIS0182	00945	SULFATE, TOTAL (MG/L AS SO4)	870211	1310	2516.0000000	21TXWQB	13445	
PAIS0182	00945	SULFATE, TOTAL (MG/L AS SO4)	870507	1435	2611.0000000	21TXWQB	13445	
PAIS0182	00945	SULFATE, TOTAL (MG/L AS SO4)	871103	1326	3240.0000000	21TXWQB	13445	
PAIS0182	00945	SULFATE, TOTAL (MG/L AS SO4)	880202	1331	2579.0000000	21TXWQB	13445	
PAIS0182	00945	SULFATE, TOTAL (MG/L AS SO4)	880426	1516	3097.0000000	21TXWQB	13445	
PAIS0182	00945	SULFATE, TOTAL (MG/L AS SO4)	880816	1337	3800.0000000	21TXWQB	13445	
PAIS0182	00945	SULFATE, TOTAL (MG/L AS SO4)	881004	1519	3646.0000000	21TXWQB	13445	
PAIS0182	00945	SULFATE, TOTAL (MG/L AS SO4)	890222	1446	3380.0000000	21TXWQB	13445	
PAIS0182	00945	SULFATE, TOTAL (MG/L AS SO4)	890417	1441	3006.0000000	21TXWQB	13445	
PAIS0182	00945	SULFATE, TOTAL (MG/L AS SO4)	890808	0926	4000.0000000	21TXWQB	13445	
PAIS0182	00945	SULFATE, TOTAL (MG/L AS SO4)	891012	1404	3990.0000000	21TXWQB	13445	
PAIS0182	00945	SULFATE, TOTAL (MG/L AS SO4)	900212	1302	3680.0000000	21TXWQB	13445	
PAIS0182	00945	SULFATE, TOTAL (MG/L AS SO4)	900412	1151	4140.0000000	21TXWQB	13445	
PAIS0182	00945	SULFATE, TOTAL (MG/L AS SO4)	900807	1342	4000.0000000	21TXWQB	13445	
PAIS0182	00945	SULFATE, TOTAL (MG/L AS SO4)	901016	1243	4800.0000000	21TXWQB	13445	
PAIS0182	00945	SULFATE, TOTAL (MG/L AS SO4)	910116	1253	2620.0000000	21TXWQB	13445	
PAIS0182	00945	SULFATE, TOTAL (MG/L AS SO4)	910408	1323	3590.0000000	21TXWQB	13445	
PAIS0182	00945	SULFATE, TOTAL (MG/L AS SO4)	910716	1434	3270.0000000	21TXWQB	13445	
PAIS0182	00945	SULFATE, TOTAL (MG/L AS SO4)	911112	1534	2620.0000000	21TXWQB	13445	
PAIS0182	00945	SULFATE, TOTAL (MG/L AS SO4)	921001	1520	2730.0000000	21TXWQB	13445	
PAIS0182	00945	SULFATE, TOTAL (MG/L AS SO4)	930511	1130	2620.0000000	21TXWQB	13445	
PAIS0182	00945	SULFATE, TOTAL (MG/L AS SO4)	940215	1120	2510.0000000	21TXWQB	13445	
PAIS0182	00945	SULFATE, TOTAL (MG/L AS SO4)	940607	1040	2800.0000000	21TXWQB	13445	
PAIS0182	00945	SULFATE, TOTAL (MG/L AS SO4)	940926	1238	3060.0000000	21TXWQB	13445	
PAIS0182	00945	SULFATE, TOTAL (MG/L AS SO4)	941227	1200	3310.0000000	21TXWQB	13445	
PAIS0182	00945	SULFATE, TOTAL (MG/L AS SO4)	950406	1230	3100.0000000	21TXWQB	13445	
PAIS0182	00945	SULFATE, TOTAL (MG/L AS SO4)	951026	1430	2860.0000000	21TXWQB	13445	
PAIS0182	00945	SULFATE, TOTAL (MG/L AS SO4)	960206	1200	2820.0000000	21TXWQB	13445	
PAIS0182	00945	SULFATE, TOTAL (MG/L AS SO4)	960430	1445	3540.0000000	21TXWQB	13445	
PAIS0182	00945	SULFATE, TOTAL (MG/L AS SO4)	960729	1355	3810.0000000	21TXWQB	13445	
PAIS0182	01022	BORON, TOTAL (UG/L AS B)	740717	1440	6500.0000000	21TXWQB	13445	
PAIS0182	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	770907	1305	41000.0000000	21TXWQB	13445	
PAIS0182	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	771205	1415	49100.0000000	21TXWQB	13445	
PAIS0182	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	780309	1500	33300.0000000	21TXWQB	13445	
PAIS0182	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	780606	1245	46000.0000000	21TXWQB	13445	
PAIS0182	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	851114	1120	42047.0000000	21TXWQB	13445	

Water Quality Observations
Outside STORET Edit Criteria for PAIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
PAIS0182	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	940215	1120	38600.0000000	21TXWQB	13445	
PAIS0182	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	940316	1030	31800.0000000	21TXWQB	13445	
PAIS0182	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	940607	1040	37800.0000000	21TXWQB	13445	
PAIS0182	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	940926	1238	46100.0000000	21TXWQB	13445	
PAIS0182	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	941227	1200	36900.0000000	21TXWQB	13445	
PAIS0182	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	950406	1230	32300.0000000	21TXWQB	13445	
PAIS0182	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	950626	1458	45500.0000000	21TXWQB	13445	
PAIS0182	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	951026	1430	44000.0000000	21TXWQB	13445	
PAIS0182	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	960206	1200	36600.0000000	21TXWQB	13445	
PAIS0182	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	960430	1445	48100.0000000	21TXWQB	13445	
PAIS0182	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	960729	1355	57200.0000000	21TXWQB	13445	
PAIS0187	00480	SALINITY - PARTS PER THOUSAND	750613		41.8000000	11NPSWRD	PAIS_SMEV_57	
PAIS0198	00480	SALINITY - PARTS PER THOUSAND	710315		52.1000000	11NPSWRD	PAIS_SIMM_28	
PAIS0198	00480	SALINITY - PARTS PER THOUSAND	710415		49.4000000	11NPSWRD	PAIS_SIMM_28	
PAIS0198	00480	SALINITY - PARTS PER THOUSAND	710615		46.6000000	11NPSWRD	PAIS_SIMM_28	
PAIS0198	00480	SALINITY - PARTS PER THOUSAND	710715		47.7000000	11NPSWRD	PAIS_SIMM_28	
PAIS0198	00480	SALINITY - PARTS PER THOUSAND	710815		43.3000000	11NPSWRD	PAIS_SIMM_28	
PAIS0206	00480	SALINITY - PARTS PER THOUSAND	710315		44.9000000	11NPSWRD	PAIS_SIMM_27	
PAIS0206	00480	SALINITY - PARTS PER THOUSAND	710415		42.1000000	11NPSWRD	PAIS_SIMM_27	
PAIS0206	00480	SALINITY - PARTS PER THOUSAND	710515		47.7000000	11NPSWRD	PAIS_SIMM_27	
PAIS0206	00480	SALINITY - PARTS PER THOUSAND	710615		46.6000000	11NPSWRD	PAIS_SIMM_27	
PAIS0206	00480	SALINITY - PARTS PER THOUSAND	710715		49.9000000	11NPSWRD	PAIS_SIMM_27	
PAIS0206	00480	SALINITY - PARTS PER THOUSAND	710815		43.8000000	11NPSWRD	PAIS_SIMM_27	
PAIS0209	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690916	1415	75000.0000000	11NPSWRD	PAIS_TWDB_03-1	
PAIS0209	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690916	1415	75000.0000000	11NPSWRD	PAIS_TWDB_03-1	
PAIS0209	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690916	1415	75000.0000000	11NPSWRD	PAIS_TWDB_03-1	
PAIS0209	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690916	1415	75000.0000000	11NPSWRD	PAIS_TWDB_03-1	
PAIS0209	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690916	1415	79000.0000000	11NPSWRD	PAIS_TWDB_03-1	
PAIS0209	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690916	1415	72300.0000000	11NPSWRD	PAIS_TWDB_03-1	
PAIS0209	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690916	1415	74200.0000000	11NPSWRD	PAIS_TWDB_03-1	
PAIS0209	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	680828	1150	1230.0000000	11NPSWRD	PAIS_TWDB_03-1	
PAIS0209	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	680828	1150	1310.0000000	11NPSWRD	PAIS_TWDB_03-1	
PAIS0209	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	690916	1415	1960.0000000	11NPSWRD	PAIS_TWDB_03-1	
PAIS0209	00940	CHLORIDE,TOTAL IN WATER MG/L	690916	1415	27900.0000000	11NPSWRD	PAIS_TWDB_03-1	
PAIS0209	00945	SULFATE, TOTAL (MG/L AS SO4)	680828	1150	2780.0000000	11NPSWRD	PAIS_TWDB_03-1	
PAIS0209	00945	SULFATE, TOTAL (MG/L AS SO4)	690916	1415	4100.0000000	11NPSWRD	PAIS_TWDB_03-1	
PAIS0209	01020	BORON, DISSOLVED (UG/L AS B)	690916	1415	6800.0000000	11NPSWRD	PAIS_TWDB_03-1	
PAIS0210	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690916	1415	75000.0000000	112WRD	273132097174800	
PAIS0210	00095	SPECIFIC CONDUCTANCE (UMHOS/CM 25C)	690916	1417	75000.0000000	112WRD	273132097174800	

Water Quality Observations
Outside STORET Edit Criteria for PAIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
PAIS0210	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690916	1418	75000.0000000	112WRD	273132097174800	
PAIS0210	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690916	1419	75000.0000000	112WRD	273132097174800	
PAIS0210	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690916	1420	79000.0000000	112WRD	273132097174800	
PAIS0210	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	741023	1631	62000.0000000	112WRD	273132097174800	
PAIS0210	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	741023	1632	65000.0000000	112WRD	273132097174800	
PAIS0210	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	741023	1633	65000.0000000	112WRD	273132097174800	
PAIS0210	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	800716	1312	60500.0000000	112WRD	273132097174800	
PAIS0210	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	800716	1315	61000.0000000	112WRD	273132097174800	
PAIS0210	00900	HARDNESS, TOTAL (MG/L AS CACO3)	680828	1150	6000.0000000	112WRD	273132097174800	
PAIS0210	00900	HARDNESS, TOTAL (MG/L AS CACO3)	680828	1153	6500.0000000	112WRD	273132097174800	
PAIS0210	00900	HARDNESS, TOTAL (MG/L AS CACO3)	690916	1420	9700.0000000	112WRD	273132097174800	
PAIS0210	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	680828	1150	1230.0000000	112WRD	273132097174800	
PAIS0210	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	680828	1153	1310.0000000	112WRD	273132097174800	
PAIS0210	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	690916	1420	1960.0000000	112WRD	273132097174800	
PAIS0210	00940	CHLORIDE,TOTAL IN WATER MG/L	690916	1420	27900.0000000	112WRD	273132097174800	
PAIS0210	00945	SULFATE, TOTAL (MG/L AS SO4)	680828	1153	2780.0000000	112WRD	273132097174800	
PAIS0210	00945	SULFATE, TOTAL (MG/L AS SO4)	690916	1420	4100.0000000	112WRD	273132097174800	
PAIS0210	01020	BORON, DISSOLVED (UG/L AS B)	690916	1420	6800.0000000	112WRD	273132097174800	
PAIS0211	00480	SALINITY - PARTS PER THOUSAND	750613		43.4000000	11NPSWRD	PAIS_SMEV_45	
PAIS0213	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690916	1430	75000.0000000	11NPSWRD	PAIS_TWDB_03-2	
PAIS0213	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	690916	1430	75000.0000000	11NPSWRD	PAIS_TWDB_03-2	
PAIS0213	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	690916	1430	212.0000000	11NPSWRD	PAIS_TWDB_03-2	
PAIS0213	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	690916	1430	220.0000000	11NPSWRD	PAIS_TWDB_03-2	
PAIS0214	00480	SALINITY - PARTS PER THOUSAND	710315		47.1000000	11NPSWRD	PAIS_SIMM_26	
PAIS0214	00480	SALINITY - PARTS PER THOUSAND	710415		45.5000000	11NPSWRD	PAIS_SIMM_26	
PAIS0214	00480	SALINITY - PARTS PER THOUSAND	710515		51.0000000	11NPSWRD	PAIS_SIMM_26	
PAIS0214	00480	SALINITY - PARTS PER THOUSAND	710615		45.5000000	11NPSWRD	PAIS_SIMM_26	
PAIS0214	00480	SALINITY - PARTS PER THOUSAND	710715		52.1000000	11NPSWRD	PAIS_SIMM_26	
PAIS0214	00480	SALINITY - PARTS PER THOUSAND	710815		45.5000000	11NPSWRD	PAIS_SIMM_26	
PAIS0219	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690916	1430	75000.0000000	112WRD	273203097185100	
PAIS0219	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	690916	1431	75000.0000000	112WRD	273203097185100	
PAIS0219	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	780627	1614	66300.0000000	112WRD	273203097185100	
PAIS0219	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	780627	1616	66000.0000000	112WRD	273203097185100	
PAIS0219	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	800716	1315	60500.0000000	112WRD	273203097185100	
PAIS0219	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	800716	1317	60500.0000000	112WRD	273203097185100	
PAIS0219	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	690916	1430	219.9000000	112WRD	273203097185100	
PAIS0219	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	690916	1431	211.9000000	112WRD	273203097185100	
PAIS0241	00480	SALINITY - PARTS PER THOUSAND	710315		44.9000000	11NPSWRD	PAIS_SIMM_25	
PAIS0241	00480	SALINITY - PARTS PER THOUSAND	710415		41.6000000	11NPSWRD	PAIS_SIMM_25	
PAIS0241	00480	SALINITY - PARTS PER THOUSAND	710515		55.5000000	11NPSWRD	PAIS_SIMM_25	
PAIS0241	00480	SALINITY - PARTS PER THOUSAND	710615		47.1000000	11NPSWRD	PAIS_SIMM_25	

Water Quality Observations
Outside STORET Edit Criteria for PAIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
PAIS0241	00480	SALINITY - PARTS PER THOUSAND	710715		52.1000000	11NPSWRD	PAIS_SIMM_25	
PAIS0241	00480	SALINITY - PARTS PER THOUSAND	710815		46.6000000	11NPSWRD	PAIS_SIMM_25	
PAIS0243	00480	SALINITY - PARTS PER THOUSAND	750613		40.9000000	11NPSWRD	PAIS_SMEV_35	
PAIS0252	00927	MAGNESIUM, TOTAL (MG/L AS MG)	730115		1200.0000000	11NPSWRD	PAIS_CEM_05	
PAIS0252	00927	MAGNESIUM, TOTAL (MG/L AS MG)	730915		1091.0000000	11NPSWRD	PAIS_CEM_05	
PAIS0252	00927	MAGNESIUM, TOTAL (MG/L AS MG)	740215		1248.0000000	11NPSWRD	PAIS_CEM_05	
PAIS0252	00927	MAGNESIUM, TOTAL (MG/L AS MG)	740815		2120.0000000	11NPSWRD	PAIS_CEM_05	
PAIS0252	00927	MAGNESIUM, TOTAL (MG/L AS MG)	740815		2120.0000000	11NPSWRD	PAIS_CEM_05	
PAIS0253	00927	MAGNESIUM, TOTAL (MG/L AS MG)	730115		1333.0000000	11NPSWRD	PAIS_CEM_14	
PAIS0253	00927	MAGNESIUM, TOTAL (MG/L AS MG)	730115		1533.0000000	11NPSWRD	PAIS_CEM_14	
PAIS0253	00927	MAGNESIUM, TOTAL (MG/L AS MG)	730915		1107.0000000	11NPSWRD	PAIS_CEM_14	
PAIS0253	00927	MAGNESIUM, TOTAL (MG/L AS MG)	730915		1123.0000000	11NPSWRD	PAIS_CEM_14	
PAIS0253	00927	MAGNESIUM, TOTAL (MG/L AS MG)	740215		1242.0000000	11NPSWRD	PAIS_CEM_14	
PAIS0253	00927	MAGNESIUM, TOTAL (MG/L AS MG)	740215		1259.0000000	11NPSWRD	PAIS_CEM_14	
PAIS0253	00927	MAGNESIUM, TOTAL (MG/L AS MG)	740815		1770.0000000	11NPSWRD	PAIS_CEM_14	
PAIS0253	00927	MAGNESIUM, TOTAL (MG/L AS MG)	740815		1800.0000000	11NPSWRD	PAIS_CEM_14	
PAIS0254	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	750707	1540	69200.0000000	21TEXWR	24910050	
PAIS0254	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	760426	1600	60400.0000000	21TEXWR	24910050	
PAIS0254	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	770706	1417	69000.0000000	21TEXWR	24910050	
PAIS0255	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	840627	1530	65000.0000000	21TXWQB	13443	
PAIS0255	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	840627	1530	67000.0000000	21TXWQB	13443	
PAIS0255	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	841011	1437	73000.0000000	21TXWQB	13443	
PAIS0255	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	841011	1437	81000.0000000	21TXWQB	13443	
PAIS0255	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	841011	1437	81000.0000000	21TXWQB	13443	
PAIS0255	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	860429	1530	60800.0000000	21TXWQB	13443	
PAIS0255	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	860429	1530	63100.0000000	21TXWQB	13443	
PAIS0255	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	860429	1530	63600.0000000	21TXWQB	13443	
PAIS0255	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	880816	1400	60800.0000000	21TXWQB	13443	
PAIS0255	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	880816	1400	62300.0000000	21TXWQB	13443	
PAIS0255	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	880816	1400	63500.0000000	21TXWQB	13443	
PAIS0255	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	881004	1550	60200.0000000	21TXWQB	13443	
PAIS0255	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	890808	1529	62500.0000000	21TXWQB	13443	
PAIS0255	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	900212	1340	60700.0000000	21TXWQB	13443	
PAIS0255	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	901016	1314	63600.0000000	21TXWQB	13443	
PAIS0255	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	901016	1314	71200.0000000	21TXWQB	13443	
PAIS0255	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	901016	1314	72400.0000000	21TXWQB	13443	
PAIS0255	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	960716	0935	73100.0000000	21TXWQB	13443	
PAIS0255	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	840627	1530	62100.0000000	21TXWQB	13443	
PAIS0255	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	850701	1600	68992.0000000	21TXWQB	13443	
PAIS0255	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	860429	1530	89320.0000000	21TXWQB	13443	
PAIS0255	00095	SPECIFIC CONDUCTANCE (UMHOS/CM 25C)	880202	1355	69552.0000000	21TXWQB	13443	

Water Quality Observations
Outside STORET Edit Criteria for PAIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
PAIS0255	00480	SALINITY - PARTS PER THOUSAND	851114	1149	40.9000000	21TXWQB	13443	
PAIS0255	00480	SALINITY - PARTS PER THOUSAND	881004	1550	40.3000000	21TXWQB	13443	
PAIS0255	00480	SALINITY - PARTS PER THOUSAND	900212	1340	40.6000000	21TXWQB	13443	
PAIS0255	00480	SALINITY - PARTS PER THOUSAND	900212	1340	40.7000000	21TXWQB	13443	
PAIS0255	00480	SALINITY - PARTS PER THOUSAND	901016	1314	46.9000000	21TXWQB	13443	
PAIS0255	00480	SALINITY - PARTS PER THOUSAND	901016	1314	49.6000000	21TXWQB	13443	
PAIS0255	00480	SALINITY - PARTS PER THOUSAND	960716	0935	50.2000000	21TXWQB	13443	
PAIS0255	00927	MAGNESIUM, TOTAL (MG/L AS MG)	830803	1608	1200.0000000	21TXWQB	13443	
PAIS0255	00929	SODIUM, TOTAL (MG/L AS NA)	830803	1608	9400.0000000	21TXWQB	13443	
PAIS0255	00940	CHLORIDE,TOTAL IN WATER MG/L	750707	1540	22366.0000000	21TXWQB	13443	
PAIS0255	00940	CHLORIDE,TOTAL IN WATER MG/L	771205	1606	26400.0000000	21TXWQB	13443	
PAIS0255	00940	CHLORIDE,TOTAL IN WATER MG/L	840627	1530	24200.0000000	21TXWQB	13443	
PAIS0255	00940	CHLORIDE,TOTAL IN WATER MG/L	841011	1437	23600.0000000	21TXWQB	13443	
PAIS0255	00940	CHLORIDE,TOTAL IN WATER MG/L	851114	1149	22642.0000000	21TXWQB	13443	
PAIS0255	00940	CHLORIDE,TOTAL IN WATER MG/L	860813	1612	24000.0000000	21TXWQB	13443	
PAIS0255	00940	CHLORIDE,TOTAL IN WATER MG/L	880816	1400	22909.0000000	21TXWQB	13443	
PAIS0255	00940	CHLORIDE,TOTAL IN WATER MG/L	890222	1515	24000.0000000	21TXWQB	13443	
PAIS0255	00940	CHLORIDE,TOTAL IN WATER MG/L	950530	1055	23100.0000000	21TXWQB	13443	
PAIS0255	00940	CHLORIDE,TOTAL IN WATER MG/L	950920	1255	22200.0000000	21TXWQB	13443	
PAIS0255	00940	CHLORIDE,TOTAL IN WATER MG/L	960716	0935	28300.0000000	21TXWQB	13443	
PAIS0255	00945	SULFATE, TOTAL (MG/L AS SO4)	750106	1530	2631.0000000	21TXWQB	13443	
PAIS0255	00945	SULFATE, TOTAL (MG/L AS SO4)	750707	1540	2940.0000000	21TXWQB	13443	
PAIS0255	00945	SULFATE, TOTAL (MG/L AS SO4)	760426	1600	4000.0000000	21TXWQB	13443	
PAIS0255	00945	SULFATE, TOTAL (MG/L AS SO4)	760706	0945	3700.0000000	21TXWQB	13443	
PAIS0255	00945	SULFATE, TOTAL (MG/L AS SO4)	761007	1522	2600.0000000	21TXWQB	13443	
PAIS0255	00945	SULFATE, TOTAL (MG/L AS SO4)	770406	1610	2900.0000000	21TXWQB	13443	
PAIS0255	00945	SULFATE, TOTAL (MG/L AS SO4)	770706	1417	2800.0000000	21TXWQB	13443	
PAIS0255	00945	SULFATE, TOTAL (MG/L AS SO4)	770907	1545	2800.0000000	21TXWQB	13443	
PAIS0255	00945	SULFATE, TOTAL (MG/L AS SO4)	771205	1606	3500.0000000	21TXWQB	13443	
PAIS0255	00945	SULFATE, TOTAL (MG/L AS SO4)	780606	1320	3000.0000000	21TXWQB	13443	
PAIS0255	00945	SULFATE, TOTAL (MG/L AS SO4)	780926	1420	2900.0000000	21TXWQB	13443	
PAIS0255	00945	SULFATE, TOTAL (MG/L AS SO4)	790516	1505	2800.0000000	21TXWQB	13443	
PAIS0255	00945	SULFATE, TOTAL (MG/L AS SO4)	790810	1422	2700.0000000	21TXWQB	13443	
PAIS0255	00945	SULFATE, TOTAL (MG/L AS SO4)	801106	1325	2600.0000000	21TXWQB	13443	
PAIS0255	00945	SULFATE, TOTAL (MG/L AS SO4)	810224	1149	2700.0000000	21TXWQB	13443	
PAIS0255	00945	SULFATE, TOTAL (MG/L AS SO4)	810512	1250	2700.0000000	21TXWQB	13443	
PAIS0255	00945	SULFATE, TOTAL (MG/L AS SO4)	820818	1548	2600.0000000	21TXWQB	13443	
PAIS0255	00945	SULFATE, TOTAL (MG/L AS SO4)	821122	1500	3300.0000000	21TXWQB	13443	
PAIS0255	00945	SULFATE, TOTAL (MG/L AS SO4)	830505	1333	2800.0000000	21TXWQB	13443	
PAIS0255	00945	SULFATE, TOTAL (MG/L AS SO4)	830803	1608	2700.0000000	21TXWQB	13443	
PAIS0255	00945	SULFATE, TOTAL (MG/L AS SO4)	830920	1417	2700.0000000	21TXWQB	13443	

Water Quality Observations
Outside STORET Edit Criteria for PAIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
PAIS0255	00945	SULFATE, TOTAL (MG/L AS SO4)	840627	1530	3600.0000000	21TXWQB	13443	
PAIS0255	00945	SULFATE, TOTAL (MG/L AS SO4)	841011	1437	3500.0000000	21TXWQB	13443	
PAIS0255	00945	SULFATE, TOTAL (MG/L AS SO4)	850108	1658	2900.0000000	21TXWQB	13443	
PAIS0255	00945	SULFATE, TOTAL (MG/L AS SO4)	850501	1446	2840.0000000	21TXWQB	13443	
PAIS0255	00945	SULFATE, TOTAL (MG/L AS SO4)	850701	1600	2559.0000000	21TXWQB	13443	
PAIS0255	00945	SULFATE, TOTAL (MG/L AS SO4)	860429	1530	3858.0000000	21TXWQB	13443	
PAIS0255	00945	SULFATE, TOTAL (MG/L AS SO4)	860813	1612	2940.0000000	21TXWQB	13443	
PAIS0255	00945	SULFATE, TOTAL (MG/L AS SO4)	870507	1539	2594.0000000	21TXWQB	13443	
PAIS0255	00945	SULFATE, TOTAL (MG/L AS SO4)	871103	1354	2611.0000000	21TXWQB	13443	
PAIS0255	00945	SULFATE, TOTAL (MG/L AS SO4)	880202	1355	2530.0000000	21TXWQB	13443	
PAIS0255	00945	SULFATE, TOTAL (MG/L AS SO4)	880426	1747	2683.0000000	21TXWQB	13443	
PAIS0255	00945	SULFATE, TOTAL (MG/L AS SO4)	880816	1400	3246.0000000	21TXWQB	13443	
PAIS0255	00945	SULFATE, TOTAL (MG/L AS SO4)	881004	1550	3134.0000000	21TXWQB	13443	
PAIS0255	00945	SULFATE, TOTAL (MG/L AS SO4)	890222	1515	2700.0000000	21TXWQB	13443	
PAIS0255	00945	SULFATE, TOTAL (MG/L AS SO4)	890417	1507	2713.0000000	21TXWQB	13443	
PAIS0255	00945	SULFATE, TOTAL (MG/L AS SO4)	890808	1529	3900.0000000	21TXWQB	13443	
PAIS0255	00945	SULFATE, TOTAL (MG/L AS SO4)	891012	1435	3200.0000000	21TXWQB	13443	
PAIS0255	00945	SULFATE, TOTAL (MG/L AS SO4)	900807	1415	2700.0000000	21TXWQB	13443	
PAIS0255	00945	SULFATE, TOTAL (MG/L AS SO4)	901016	1314	3400.0000000	21TXWQB	13443	
PAIS0255	00945	SULFATE, TOTAL (MG/L AS SO4)	910716	1506	3440.0000000	21TXWQB	13443	
PAIS0255	00945	SULFATE, TOTAL (MG/L AS SO4)	911112	1608	2590.0000000	21TXWQB	13443	
PAIS0255	00945	SULFATE, TOTAL (MG/L AS SO4)	920407	1422	2770.0000000	21TXWQB	13443	
PAIS0255	00945	SULFATE, TOTAL (MG/L AS SO4)	921001	1600	2700.0000000	21TXWQB	13443	
PAIS0255	00945	SULFATE, TOTAL (MG/L AS SO4)	931117	1141	2690.0000000	21TXWQB	13443	
PAIS0255	00945	SULFATE, TOTAL (MG/L AS SO4)	940222	1220	2580.0000000	21TXWQB	13443	
PAIS0255	00945	SULFATE, TOTAL (MG/L AS SO4)	940608	1110	2630.0000000	21TXWQB	13443	
PAIS0255	00945	SULFATE, TOTAL (MG/L AS SO4)	941026	1445	2610.0000000	21TXWQB	13443	
PAIS0255	00945	SULFATE, TOTAL (MG/L AS SO4)	950131	1344	3790.0000000	21TXWQB	13443	
PAIS0255	00945	SULFATE, TOTAL (MG/L AS SO4)	950612	1530	2830.0000000	21TXWQB	13443	
PAIS0255	00945	SULFATE, TOTAL (MG/L AS SO4)	950920	1255	2640.0000000	21TXWQB	13443	
PAIS0255	00945	SULFATE, TOTAL (MG/L AS SO4)	960716	0935	4130.0000000	21TXWQB	13443	
PAIS0255	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	770907	1545	41000.0000000	21TXWQB	13443	
PAIS0255	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	771205	1606	49200.0000000	21TXWQB	13443	
PAIS0255	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	780309	1520	33700.0000000	21TXWQB	13443	
PAIS0255	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	780606	1320	40000.0000000	21TXWQB	13443	
PAIS0255	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	851114	1149	35131.0000000	21TXWQB	13443	
PAIS0255	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	940222	1220	33600.0000000	21TXWQB	13443	
PAIS0255	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	940421	1425	31700.0000000	21TXWQB	13443	
PAIS0255	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	940608	1110	38800.0000000	21TXWQB	13443	
PAIS0255	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	941026	1445	36800.0000000	21TXWQB	13443	
PAIS0255	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	950131	1344	31600.0000000	21TXWQB	13443	

Water Quality Observations
Outside STORET Edit Criteria for PAIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
PAIS0255	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	950530	1055	51300.0000000	21TXWQB	13443	
PAIS0255	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	950612	1530	35700.0000000	21TXWQB	13443	
PAIS0255	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	950920	1255	43300.0000000	21TXWQB	13443	
PAIS0255	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	960118	1241	36100.0000000	21TXWQB	13443	
PAIS0255	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	960411	1220	40200.0000000	21TXWQB	13443	
PAIS0255	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	960716	0935	60600.0000000	21TXWQB	13443	
PAIS0256	00927	MAGNESIUM, TOTAL (MG/L AS MG)	730115		1300.0000000	11NPSWRD	PAIS_CEM_13	
PAIS0256	00927	MAGNESIUM, TOTAL (MG/L AS MG)	730115		2133.0000000	11NPSWRD	PAIS_CEM_13	
PAIS0256	00927	MAGNESIUM, TOTAL (MG/L AS MG)	730915		1030.0000000	11NPSWRD	PAIS_CEM_13	
PAIS0256	00927	MAGNESIUM, TOTAL (MG/L AS MG)	730915		1087.0000000	11NPSWRD	PAIS_CEM_13	
PAIS0256	00927	MAGNESIUM, TOTAL (MG/L AS MG)	740215		1202.0000000	11NPSWRD	PAIS_CEM_13	
PAIS0256	00927	MAGNESIUM, TOTAL (MG/L AS MG)	740215		1348.0000000	11NPSWRD	PAIS_CEM_13	
PAIS0256	00927	MAGNESIUM, TOTAL (MG/L AS MG)	740815		1820.0000000	11NPSWRD	PAIS_CEM_13	
PAIS0256	00927	MAGNESIUM, TOTAL (MG/L AS MG)	740815		1920.0000000	11NPSWRD	PAIS_CEM_13	
PAIS0257	00927	MAGNESIUM, TOTAL (MG/L AS MG)	740815		1940.0000000	11NPSWRD	PAIS_CEM_04	
PAIS0257	00927	MAGNESIUM, TOTAL (MG/L AS MG)	740815		2020.0000000	11NPSWRD	PAIS_CEM_04	

APPENDICES

Appendix A

Computer Files Transmitted With

Park Baseline Water Quality Data Inventory and Analysis

Computer disk(s) accompanying this report include up to seven (depending on the presence or absence of certain data elements) compressed (ZIP) files containing digital copies of nearly all the tables, figures, and other materials used to produce this report. To decompress these files, you must use the commonly available shareware program PKUNZIP. The command to type at the DOS prompt is:

PKUNZIP -E *COMPRESS.ZIP FILENAME.EXT*

where COMPRESS.ZIP is the name of one of the seven compressed (ZIP) files listed below and FILENAME.EXT is the name of the file you wish to extract. If you want to decompress all of the files in COMPRESS.ZIP, simply omit the FILENAME.EXT. To obtain a listing of all the files compressed into a particular ZIP file, type the following:

PKUNZIP -V *COMPRESS.ZIP* |MORE

where COMPRESS.ZIP is the name of one of the seven compressed ZIP files listed below. If a ZIP file spans multiple disks, use the last disk of the series (span) when obtaining a listing of all the files compressed into a particular ZIP file. Once you see the file you wish to obtain, substitute this file name for FILENAME.EXT in the first command line above to extract and decompress this particular file.

Included on one of the disk(s) accompanying this report is a program named PRINTZIP. This program will decompress ZIP files which don't span multiple disks and print certain files to a Hewlett-Packard (or compatible) Laser Printer. To use PRINTZIP, however, you must still have a copy of PKUNZIP in a directory listed in your path or in the same directory as the PRINTZIP program. PRINTZIP provides an easy, menu-driven interface for using PKUNZIP to decompress files and then send them to the printer. PRINTZIP allows you to send individual files, groups of files, or all files to the printer. PRINTZIP will not work with ZIP files that span multiple disks.

The following compressed (ZIP) files are included on the disk(s) accompanying this report:

(1) <u>PAISTABS.ZIP</u>

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

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

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

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

(d) PAISOV0.DOC - Overview of park and retrieved data.

(e) PAISOV1.DOC - Station period of record table.

(f) PAISOV2.DOC - Parameter period of record table.

(g) PAISOV3.DOC - Station/parameter period of record table.

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

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

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

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

(l) PAISBAD.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 PAISOV1.DOC is in the subdirectory C:\WATER, you could type: PRINT C:\WATER\PAISOV1.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) PAISFIGS.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 PAIS0001. 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 PAIS0001) 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) PAISPARM.ZIP

This file compresses PAISPARM.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) PAISSITE.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) PAISWQ.DBF - All water quality monitoring station locations within the project's study area downloaded from STORET.

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

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

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

(e) PAISDAMS.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) PAISMISC.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) PAISEXEC.DOC - WordPerfect Ver. 5.1 copy of the Executive Summary in the report.

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

(f) PAISWQ - 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 (PAISWQA, PAISWQB, PAISWQC, etc.) and the index map name will end with an ampersand (&).

(g) PAISIDG - 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 (PAISIDGA, PAISIDGB, PAISIDGC, 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) PAISSEHY - 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 PAISFIGS.ZIP and PAISTABS.ZIP, you can use the PRINTZIP program to print any of the PCL files in PAISMISC.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) PAISRF3.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) PAISWQMW.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: PAISPARM.DBF in PAISPARM.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: PAISPARM.DBF in PAISPARM.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: PAISPARM.DBF in PAISPARM.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: PAISWQ.DBF in PAISSITE.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: PAISWQ.DBF in PAISSITE.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: PAISIFD.DBF in PAISSITE.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: PAISIFD.DBF in PAISSITE.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: PAISIFD.DBF in PAISSITE.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: PAISDRIN.DBF in PAISSITE.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: PAISDRIN.DBF in PAISSITE.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: PAISDRIN.DBF in PAISSITE.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: PAISGAGE.DBF in PAISSITE.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: PAISGAGE.DBF in PAISSITE.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: PAISDAMS.DBF in PAISSITE.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: PAISDAMS.DBF in PAISSITE.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: PAISDAMS.DBF in PAISSITE.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: PAISDAMS.DBF in PAISSITE.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 PAISRF3.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 PAISRF3.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 PAISRF3.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 PAISRF3.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 PAISRF3.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 PAISRF3.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[l]	TURBIDITY, JACKSON CANDLE UNITS	JTU	Physical
	00076				50[l]	TURBIDITY, HACH TURBIDIMETER, FORMAZIN TUR. UNITS	FTU	Physical
14808798	00154		250[s]			SULFATE (AS S) WHOLE WATER	MG/L	General Inorganic
7782447	00299				4.0[u]	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	MG/L	Dissolved Oxygen
7782447	00300				4.0[u]	OXYGEN, DISSOLVED	MG/L	Dissolved Oxygen
	00400				≤6.5, ≥9.0[#]	PH	SU	Physical
	00403				≤6.5, ≥9.0[#]	PH, LAB	SU	Physical
	00406				≤6.5, ≥9.0[#]	PH, FIELD	SU	Physical

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
145733	38926		100			ENDOTHALL, WHOLE WATER SAMPLE	UG/L	Pesticide
2921882	38932	0.083		0.011		CHLORPYRIFOS, TOTAL RECOVERABLE	UG/L	Pesticide
2921882	38933	0.083		0.011		CHLORPYRIFOS, DISSOLVED	UG/L	Pesticide
2163806	38935		50			MONOSODIUM METHANEARSONATE (MSMA)	UG/L	Pesticide
2921882	39012	0.083		0.011		DURSBAN, FLAME PHOTOMETRIC, WATER SAMPLE	UG/L	Pesticide
56382	39015	0.065				ETHYLPARATHION, FLAME IONIFATION, WATER SAMPLE	UG/L	Pesticide
122349	39025		4.0			SIMAZINE, COULSON CONDUCTIVITY WATER SAMPLE	UG/L	Pesticide
87865	39032	20***	1.0	13		PCP (PENTACHLOROPHENOL) WHOLE WATER SAMPLE	UG/L	Pesticide
1912249	39033		3.0			ATRAZINE IN WHOLE WATER SAMPLE	UG/L	Pesticide
118741	39039	6.0p	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[1]	TURBIDITY, FIELD	NTU	Physical
	82079				50[1]	TURBIDITY, LAB	NTU	Physical
88857	82226		7.0			2 SECONDARY BUTYL 4,6-DINITROPHENOL	UG/L	Pesticide
16887006	82295	860000	250000[s]			CHLORIDE DISSOLVED AS CL IN WATER	UG/L	General Inorganic
72435	82350		40			METHOXYCHLOR, DISSOLVED IN WATER	UG/L	Pesticide
72435	82351		40			METHOXYCHLOR, SUSPENDED IN WATER	UG/L	Pesticide
115297	82354	0.22		0.034		ENDOSULFAN, DISSOLVED IN WATER	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
115297	82355	0.22		0.034		ENDOSULFAN, SUSPENDED IN WATER	UG/L	Pesticide
57125	82573	0.022	0.2	0.001		CYANIDE/CHLORINATION IN WATER	MG/L	General Inorganic
1646873	82586		4.0			ALDICARB SULFOXIDE, WATER, TOTAL RECOVERABLE	UG/L	General Organic
1646884	82587		2.0			ALDICARB SULFONE, WHOLE WATER, TOTAL RECOVERABLE	UG/L	General Organic
23135220	82613		200			OXAMYL, WHOLE WATER, TOTAL RECOVERABLE	UG/L	Pesticide
1563662	82615		40			CARBOFURAN, WHOLE WATER, TOTAL RECOVERABLE	UG/L	Pesticide
116063	82619		3.0			ALDICARB, WHOLE WATER, TOTAL RECOVERABLE	UG/L	Pesticide
33213659	82624	0.22		0.034		ENDOSULFAN, BETA, WH WATER, TOTAL RECOVERABLE	UG/L	Pesticide
96128	82625		0.2			DIBROMOCHLOROPROPANE, WATER, TOTAL RECOVERABLE	UG/L	Pesticide
7440382	82702	360	50	69		ARSENIC, FIELD ACIDIFIED, DECANTED, WATER	UG/L	Metal
7440393	82703		2			BARIUM, FIELD ACIDIFIED, DECANTED, WATER	MG/L	Metal
7440417	82704	130[*]	4.0			BERYLLIUM, FIELD ACIDIFIED, DECANTED, WATER	UG/L	Metal
7440439	82705	3.9[+]	5.0	43		CADMIUM, FIELD ACIDIFIED, DECANTED, WATER	UG/L	Metal
7440473	82706		100			CHROMIUM, FIELD ACIDIFIED, DECANTED, WATER	UG/L	Metal
7440508	82708	18[+]	1300[a]	2.9		COPPER, FIELD ACIDIFIED, DECANTED, WATER	UG/L	Metal
7439921	82711	82[+]	15[a]	220		LEAD, FIELD ACIDIFIED, DECANTED, WATER	UG/L	Metal
7439976	82713	2.4	2.0	2.1		MERCURY, FIELD ACIDIFIED, DECANTED, WATER	UG/L	Metal
7440020	82715	1400[+]	100	75		NICKEL, FIELD ACIDIFIED, DECANTED, WATER	UG/L	Metal
7440224	82716	4.1[+]	100[s]	0.12		SILVER, FIELD ACIDIFIED, DECANTED, WATER	UG/L	Metal
7440666	82719	120[+]	5000[s]	95		ZINC, FIELD ACIDIFIED, DECANTED, WATER	UG/L	Metal

Footnote Key:

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

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

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

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

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

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

[!]Arizona state standard.

[a]EPA action level, 40 CFR 141.80.

[b]California and Florida state bathing water standards.

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

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

[p]Proposed Criterion.

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

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

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

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

Appendix G

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

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

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

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

STORET Code	Clarity/Turbidity Parameter Group	C.A.S. Number
00070	TURBIDITY, (JACKSON CANDLE UNITS)	-
00075	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	-
00076	TURBIDITY, HACH TURBIDIMETER (FORMAZIN TURB UNIT)	-
00077	TRANSPARENCY, SECCHI DISC (INCHES)	-
00078	TRANSPARENCY, SECCHI DISC (METERS)	-
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	-
82078	TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS NTU	-
82079	TURBIDITY, LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	-

STORET Code	Conductivity Parameter Group	C.A.S. Number
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	-
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	-
00096	SALINITY AT 25 DEGREES C (MG/ML)	-
00480	SALINITY - PARTS PER THOUSAND	-

STORET Code	Dissolved Oxygen Parameter Group	C.A.S. Number
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE (MG/L)	7782447
00300	OXYGEN, DISSOLVED (MG/L)	7782447
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION	7782447
00389	OXYGEN, DISSOLVED, LAB ANAL. BY PROBE OF FIELD SAMPLE (MG/L)	7782447

STORET Code	pH Parameter Group	C.A.S. Number
00400	PH (STANDARD UNITS)	-
00403	PH, LAB (STANDARD UNITS)	-
00406	PH, FIELD (STANDARD UNITS)	-

STORET Code	Alkalinity Parameter Group	C.A.S. Number
00409	ALKALINITY, TOTAL, LOW LEVEL GRAN ANALYSIS (µEQ/L)	471341
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	471341
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	77098
00430	ALKALINITY, CARBONATE (MG/L AS CACO3)	471341
00435	ACIDITY, TOTAL (MG/L AS CACO3)	471341
00440	BICARBONATE ION (MG/L AS HCO3)	71523
00445	CARBONATE ION (MG/L AS CO3)	3812326
STORET Code	**Nitrate/Nitrogen Parameter Group**	**C.A.S. Number**
00600	NITROGEN, TOTAL (MG/L AS N)	17778880
00602	NITROGEN, DISSOLVED (MG/L AS N)	17778880
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	17778880
00607	NITROGEN, ORGANIC, DISSOLVED (MG/L AS N)	17778880
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	17778880
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	17778880
00612	AMMONIA, UNIONZED (MG/L AS N)	7664417
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	17778880
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	17778880
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	17778880
00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	17778880
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	17778880
00631	NITRITE PLUS NITRATE, DISSOLVED 1 DET. (MG/L AS N)	17778880
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	14798039
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	14798039
71850	NITRATE NITROGEN, TOTAL (MG/L AS NO3)	14797558
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	14797558
71855	NITRITE NITROGEN, TOTAL (MG/L AS NO2)	14797650
71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	14797650

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

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

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

STORET Code	Bacteria Parameter Group	C.A.S. Number
00111	RATIO OF FECAL COLIFORM TO FECAL STREPTOCOCCI	-
31501	COLIFORM, TOT, MEMBRANE FILTER, IMMED., M-ENDO MED,35C	-
31503	COLIFORM, TOT, MEMBRANE FILTER, DELAY, M-ENDO MED, 35C	-
31504	COLIFORM, TOT, MEMBRANE FILTER, IMMED., LES-ENDO AGAR, 35C	-
31505	COLIFORM, TOT, MPN, CONFIRMED TEST,35C(TUBE 31506)	-
31506	COLIFORM, TOT, MPN, CONFIRMED TEST, TUBE CONFIG.	-
31507	COLIFORM, TOT, MPN, COMPLETED TEST,35C(TUBE 31508)	-
31508	COLIFORM, TOT, MPN, COMPLETED TEST, TUBE CONFIG.	-
31613	FECAL COLIFORM, MEMBR, FILTER,M-FC AGAR,44.5C,24HR	-
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	-
31615	FECAL COLIFORM, MPN, EC MED, 44.5C (TUBE 31614)	-
31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5C	-
31617	FECAL COLIFORM, MPN,EIJKMAN TEST,44.5C(TUBE 31618)	-
31625	FECAL COLIFORM, MF, M-FC, 0.7 UM	-
31648	E. COLI - MTEC-MF	-
31649	ENTEROCOCCI- ME-MF	-
31673	FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR	-
31676	FECAL STREPTOCOCCI, MPN, KF BROTH, TUBE CONFIG.	-
31677	FECAL STREPTOCOCCI, MPN, AD-EVA, 35C (TUBE 31678)	-
31751	PLATE COUNT, TOTAL, TPC AGAR, 35C, 24 HRS	-
61214	FECAL STREPTOCOCCI, GENERAL #/100ML	-
61215	FECAL COLIFORM, GENERAL #/100ML	-
STORET Code	**Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants)**	**C.A.S. Number**
00718	CYANIDE, WEAK ACID, DISSOC. WATER, WHOLE (UG/L)	57125
00719	CYANIDE, FREE, IN WATER & WASTEWATERS, HBG (UG/L)	57125
00720	CYANIDE, TOTAL (MG/L AS CN)	57125
00722	CYANIDE, FREE (AMENABLE TO CHLORINATION) (MG/L)	57125

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
00723	CYANIDE, DISSOLVED STD METHOD (UG/L)	57125
00724	CYANIDE COMPLEXED TO A RANGE OF COMPNDS (UG/L)	57125
00969	CHRYSOTILE ASBESTOS FIBERS/LITER	1332214
00973	AMPHIBOLE ASBESTOS FIBERS/LITER	1332214
00976	AMBIGUOUS ASBESTOS FIBERS/LITER	1332214
00977	NON-AMPHIBOLE NON-CHRYSOTILE ASBESTOS FIBERS/LITER	1332214
00978	ARSENIC, TOTAL RECOVERABLE IN WATER AS AS	7440382
00981	SELENIUM, TOTAL RECOVERABLE IN WATER AS SE (UG/L)	7782492
00982	THALLIUM, TOTAL RECOVERABLE IN WATER AS (UG/L)	7440280
00990	SELENITE, TOTAL RECOVERABLE INORGANIC (UG/L)	7782492
00991	ARSENIC, TOTAL RECOVER. TRIVALENT INORGANIC (UG/L)	7440382
00995	ARSENIC, INORGANIC DISSOLVED (UG/L AS AS)	7440382
00996	ARSENIC, INORGANIC SUSPENDED (UG/L AS AS)	7440382
00997	ARSENIC, INORGANIC TOTAL (UG/L AS AS)	7440382
00998	BERYLLIUM, TOTAL RECOVERABLE IN WATER AS BE (UG/L)	7440417
01000	ARSENIC, DISSOLVED (UG/L AS AS)	7440382
01001	ARSENIC, SUSPENDED (UG/L AS AS)	7440382
01002	ARSENIC, TOTAL (UG/L AS AS)	7440382
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	7440417
01011	BERYLLIUM, SUSPENDED (UG/L AS BE)	7440417
01012	BERYLLIUM, TOTAL (UG/L AS BE)	7440417
01025	CADMIUM, DISSOLVED (UG/L AS CD)	7440439
01026	CADMIUM, SUSPENDED (UG/L AS CD)	7440439
01027	CADMIUM, TOTAL (UG/L AS CD)	7440439
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	7440473
01031	CHROMIUM, SUSPENDED (UG/L AS CR)	7440473
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	7440473
01033	CHROMIUM, TRI-VAL (UG/L AS CR)	16065831
01034	CHROMIUM, TOTAL (UG/L AS CR)	7440473

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
01040	COPPER, DISSOLVED (UG/L AS CU)	7440508
01041	COPPER, SUSPENDED (UG/L AS CU)	7440508
01042	COPPER, TOTAL (UG/L AS CU)	7440508
01049	LEAD, DISSOLVED (UG/L AS PB)	7439921
01050	LEAD, SUSPENDED (UG/L AS PB)	7439921
01051	LEAD, TOTAL (UG/L AS PB)	7439921
01057	THALLIUM, DISSOLVED (UG/L AS TL)	7440280
01058	THALLIUM, SUSPENDED (UG/L AS TL)	7440280
01059	THALLIUM, TOTAL (UG/L AS TL)	7440280
01065	NICKEL, DISSOLVED (UG/L AS NI)	7440020
01066	NICKEL, SUSPENDED (UG/L AS NI)	7440020
01067	NICKEL, TOTAL (UG/L AS NI)	7440020
01074	NICKEL, TOTAL RECOVERABLE IN WATER AS NI (UG/L)	7440020
01075	SILVER, DISSOLVED (UG/L AS AG)	7440224
01076	SILVER, SUSPENDED (UG/L AS AG)	7440224
01077	SILVER, TOTAL (UG/L AS AG)	7440224
01079	SILVER, TOTAL RECOVERABLE IN WATER AS AG (UG/L)	7440224
01089	COPPER AS SUSPENDED BLACK OXIDE IN WATER (MG/L)	7440508
01090	ZINC, DISSOLVED (UG/L AS ZN)	7440666
01091	ZINC, SUSPENDED (UG/L ZN)	7440666
01092	ZINC, TOTAL (UG/L AS ZN)	7440666
01094	ZINC, TOTAL RECOVERABLE IN WATER AS ZN (UG/L)	7440666
01095	ANTIMONY, DISSOLVED (UG/L AS SB)	7440360
01096	ANTIMONY, SUSPENDED (UG/L AS SB)	7440360
01097	ANTIMONY, TOTAL (UG/L AS SB)	7440360
01113	CADMIUM, TOTAL RECOVERABLE IN WATER AS CD (UG/L)	7440439
01114	LEAD, TOTAL RECOVERABLE IN WATER AS PB (UG/L)	7439921
01118	CHROMIUM, TOTAL RECOVERABLE IN WATER AS CR (UG/L)	7440473
01119	COPPER,TOTAL RECOVERABLE IN WATER AS CU (UG/L)	7440508

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
82622	ENDRIN ALDEHYDE, WH. WATER, TOTAL RECOVER. (UG/L)	7421934
82623	ENDOSULFAN SULFATE, WATER, TOTAL RECOVER. (UG/L)	1031078
82624	ENDOSULFAN, BETA, WH. WATER, TOTAL RECOVER. (UG/L)	33213659
82626	1,2-DIPHENYLHYDRAZINE, WATER, TOTAL RECOVER. (UG/L)	122667
82627	PARACHLOROMETA CRESOL, WATER, TOTAL RECOVER. (UG/L)	59507
82702	ARSENIC, FIELD ACIDIFIED, DECANTED, WATER (UG/L)	7440382
82704	BERYLLIUM, FIELD ACIDIFIED, DECANTED, WATER (UG/L)	7440417
82705	CADMIUM, FIELD ACIDIFIED, DECANTED, WATER (UG/L)	7440439
82706	CHROMIUM, FIELD ACIDIFIED, DECANTED, WATER (UG/L)	7440473
82708	COPPER, FIELD ACIDIFIED, DECANTED, WATER (UG/L)	7440508
82711	LEAD, FIELD ACIDIFIED, DECANTED, WATER (UG/L)	7439921
82713	MERCURY, FIELD ACIDIFIED, DECANTED, WATER (UG/L)	7439976
82715	NICKEL, FIELD ACIDIFIED, DECANTED, WATER (UG/L)	7440020
82716	SILVER, FIELD ACIDIFIED, DECANTED, WATER (UG/L)	7440224
82719	ZINC, FIELD ACIDIFIED, DECANTED, WATER (UG/L)	7440666
85006	ZINC, TOTAL - (#/DAY)	7440666
85007	CHROMIUM, TOTAL (#/DAY)	7440473
85010	NICKEL, TOTAL - (#/DAY)	7440020
85013	MERCURY, TOTAL - (#/DAY)	7439976

Appendix H

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.

NPS D-69 February 2003