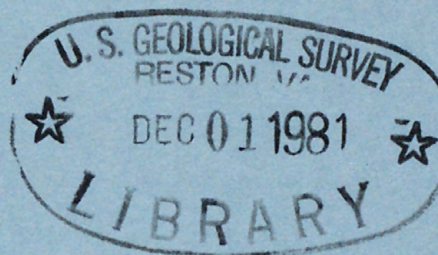


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no. 81-1064

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

**WATER-QUALITY DATA FROM A LANDFILL-LEACHATE
TREATMENT AND DISPOSAL SITE, PINELLAS COUNTY,
FLORIDA, JANUARY 1979-AUGUST 1980**

OPEN-FILE REPORT 81-1064



Prepared in cooperation with
PINELLAS COUNTY, FLORIDA



ABBREVIATIONS AND CONVERSION FACTORS
 Factors for converting inch-pound units to International System (SI)
 units and abbreviation of units

<u>Multiply inch-pound unit</u>	<u>By</u>	<u>To obtain metric unit</u>
inch (in)	25.4	millimeter (mm)
foot (ft)	0.3048	meter (m)

* * * * *

National Geodetic Vertical Datum of 1929 (NGVD of 1929).--A geodetic datum derived from a general adjustment of the first-order level nets of both the United States and Canada, formerly called "mean sea level."

* * * * *



UNITED STATES
DEPARTMENT OF THE INTERIOR
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PINELLAS COUNTY, FLORIDA, JANUARY 1979-AUGUST 1980
By G. L. Barr and Mario Fernandez, Jr.

Open-File Report 81-1064

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PINELLAS COUNTY, FLORIDA

Open-file report
(United States
Geological Survey)



Tallahassee, Florida

1981

320142

UNITED STATES DEPARTMENT OF THE INTERIOR

JAMES G. WATT, Secretary

GEOLOGICAL SURVEY

Doyle G. Frederick, Acting Director

720 and

For additional information write to:

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WATER-QUALITY DATA FROM A LANDFILL-LEACHATE TREATMENT AND DISPOSAL SITE,
PINELLAS COUNTY, FLORIDA, JANUARY 1979-AUGUST 1980

By G. L. Barr and Mario Fernandez, Jr.

ABSTRACT

Water-quality data collected between January 1979 and August 1980 at the landfill leachate-treatment site in Pinellas County, Florida, are presented. Data include field and laboratory measurements of physical properties, major chemical constituents, nitrogen and phosphorous species, chemical oxygen demand, trace metals, coliform bacteria, taxonomy of macroinvertebrates and phytoplankton, and chlorophyll analyses.

These data were collected as part of a study to determine water-quality changes resulting from aeration and ponding of leachate pumped from landfill burial trenches. Data were also collected for use in determining the rate of movement and quality changes as the leachate migrates through the surficial aquifer. Samples were collected from 81 surficial-aquifer, water-quality monitoring wells in the surficial aquifer. These wells were constructed in January 1975, February 1979, and March 1979, and eight surface-water quality monitoring sites established in January 1975, February 1978, and November 1978.

INTRODUCTION

At the solid-waste disposal area in Pinellas County (figs. 1 and 2), ground water flowing through the surficial aquifer is intercepted by trenches (located in landfill areas) that are being filled with solid waste. This water and any rainfall percolating downward in the trenches are degraded through contact with both the chemical and biological components of solid waste. Realizing that disposal of this water presented an environmental problem, Pinellas County developed a treatment system whereby the polluted water or leachate was transported via pumping to a lined pond where it was pretreated by aeration with a floating aerator. The detention time in the aeration pond has been estimated to be about 2 days (D. Acenbrack, Pinellas County Department of Solid Waste, oral commun., 1980).

Aerated water is allowed to flow into an unlined oxidation pond, thus further treating the effluent by oxidation and filtration through sands and clays of the surficial aquifer. Two oxidation ponds were used for this purpose (fig. 3). The north oxidation pond received water from the aeration pond. The

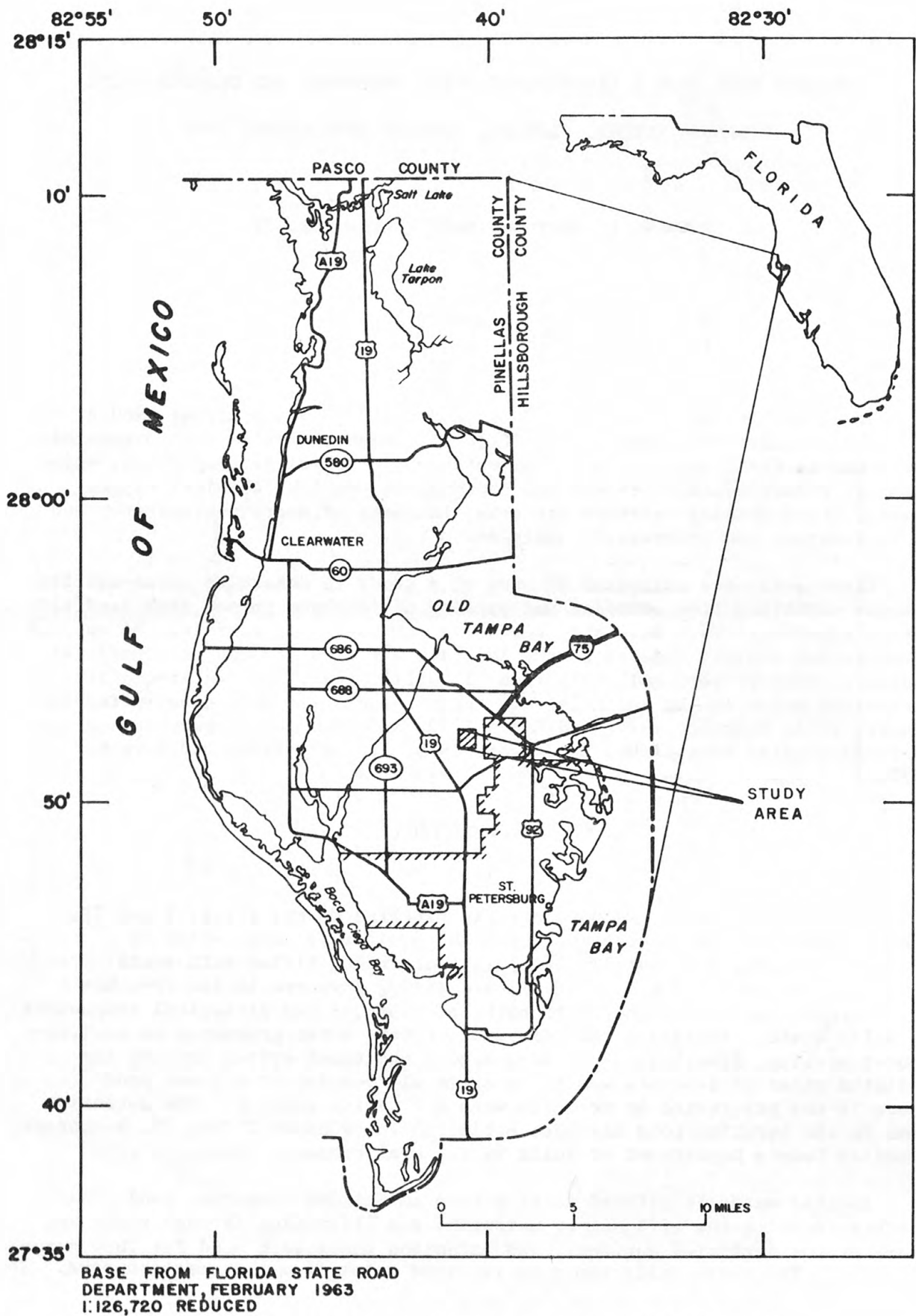


Figure 1.--Location of the Pinellas County landfill study area.

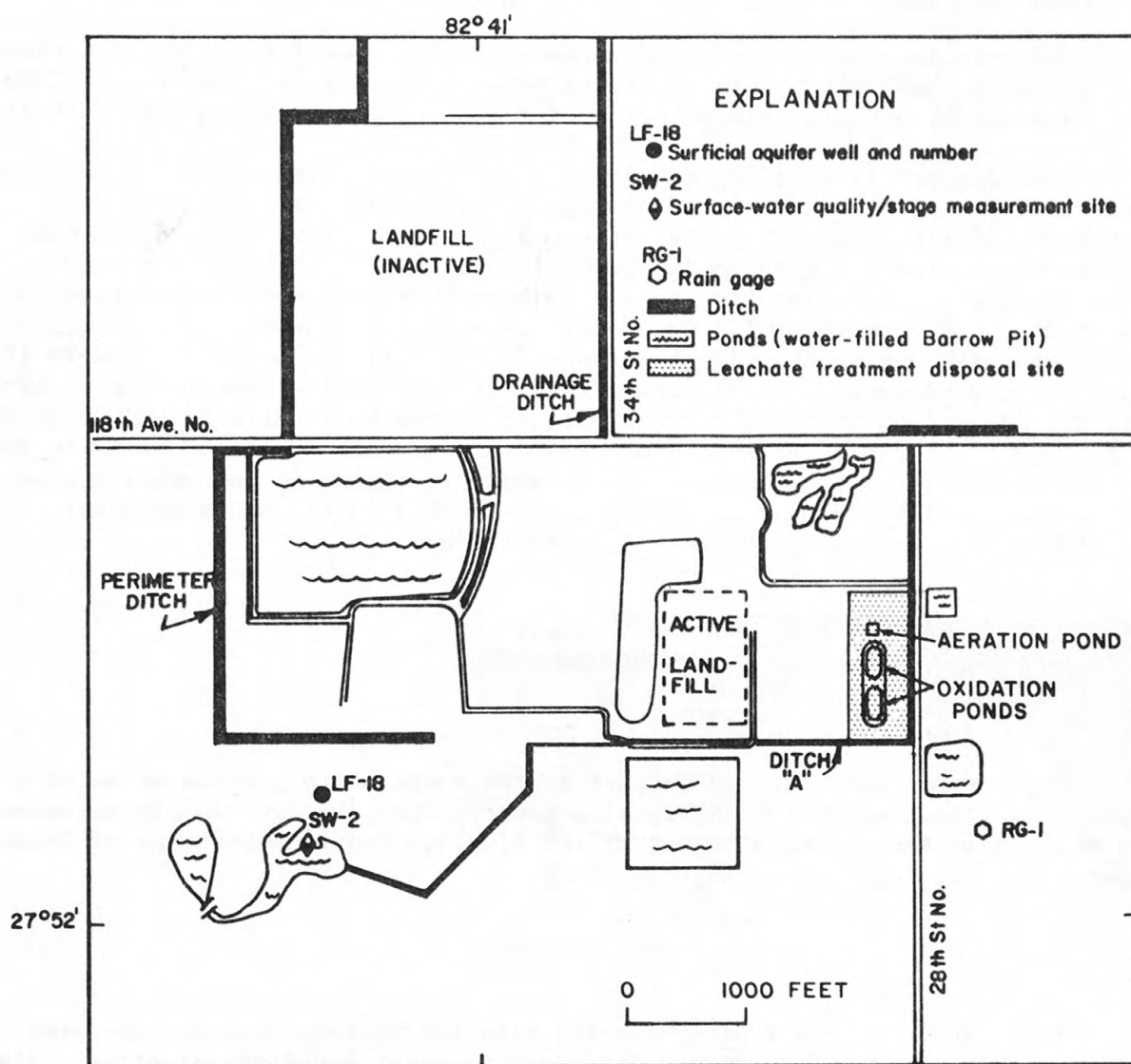


Figure 2.--Study area showing landfill-leachate treatment and disposal, and background ground- and surface-water quality-monitoring sites.

south oxidation pond was used as a quality of water control pond at the beginning of the study, but subsequently received water from the north pond. In May 1979, the U.S. Geological Survey, in cooperation with Pinellas County, began an investigation to determine water-quality changes resulting from aeration and ponding of leachate and the rate of movement and chemical changes within the surficial aquifer.

The purpose of this report is to make available well records and surface- and ground-water quality data collected between January 1979 and August 1980. The data can be used for planning purposes and for future interpretive studies.

From January 1979 to August 1980, surface- and ground-water samples were collected periodically to obtain information on water-quality conditions. Surface- and ground-water samples were collected to define background conditions in the area prior to ponding on July 18, 1979. Leachate samples were also collected before aeration to make comparisons with samples collected after aeration. Prior to receiving leachate, surface-water samples were collected from the north and south oxidation ponds and from ditch "A" at site SW-26 (fig. 3). Background data were collected from surficial aquifer monitor wells LF-18; C1, C2, C3, and C4 at site C; I3 at site I; M3 and M4 at site M; and O3 at site O (fig. 3). Physical descriptions and background data collected prior to this study for well clusters 24, 25, and 26, shown in figure 3, and other ground- and surface-water quality monitoring sites located in the study area are available in reports by Fernandez (1979a; 1979b).

ACKNOWLEDGMENTS

This report was prepared as part of the cooperative program of water-resources investigations with Pinellas County, Fla. Recognition is extended to Mr. Donald Acenbrack, Director of the Pinellas County Department of Solid Waste, for his cooperation in this study.

DATA PRESENTED

This report presents water-quality data for surface- and ground-water sites within the Pinellas County leachate treatment and disposal sites. Also presented are background data collected from the study area, which encompasses and includes the leachate treatment and disposal sites (Fernandez 1979a; 1979b). All well construction was performed by the U.S. Geological Survey. Specific conductance, temperature, and pH were determined in the field at the time of collection by U.S. Geological Survey personnel. Chemical and microbiological determinations performed by the U.S. Geological Survey laboratories include sodium, potassium, calcium, magnesium, chloride, hardness, alkalinity, color, trace metals, chemical oxygen demand, bacteria (fecal streptococci and coliform, and total coliform), and nitrogen and phosphorous species. Chemical determinations were made using the methods described in Fishman and Brown (1976) and Skougstad and others (1979), and microbiological determinations were made using the methods described in Greeson and others (1977). Macro-invertebrate and phytoplankton identifications and chlorophyll analyses were performed by Environmental Science and Engineering, Inc., Tampa, Florida using methods described in Standard Methods (American Public Health Association and others, 1971), and Weber (1973).

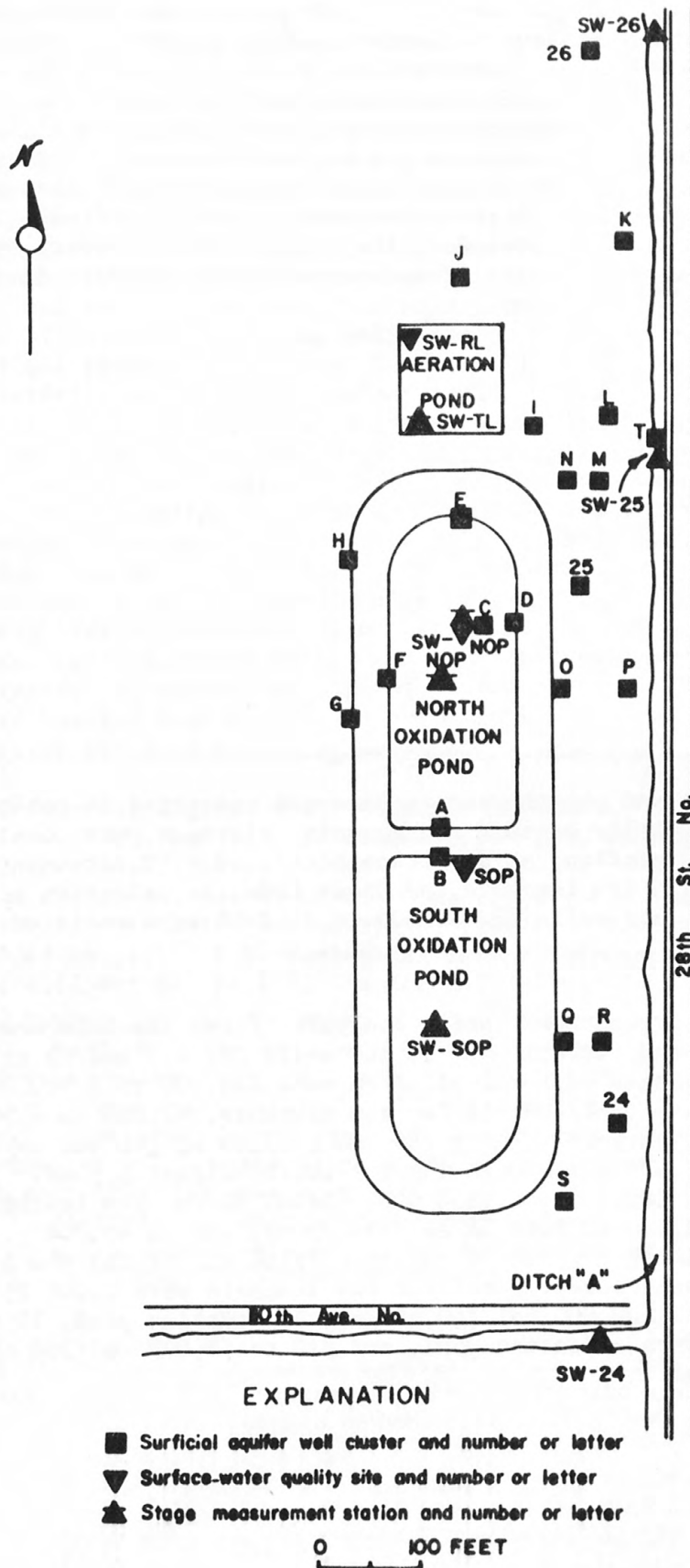


Figure 3.--Location of well clusters and surface-water quality monitoring sites at the leachate treatment and disposal sites.

Table 1 presents a description of ground-water quality monitoring sites and table 2 describes surface-water quality monitoring sites. Eighty-one wells and eight surface-water quality monitoring sites are located within the study area (fig. 3). Background water-quality data, unaffected by landfill operations, were obtained from one surficial aquifer well, LF-18 (table 3), and one surface-water monitoring site, SW-2 (table 7). Data within the study area from surface-water quality monitoring sites SW-1 through SW-4 were published in a previous report by Fernandez (1979b). Lithologic logs of selected wells in table 1 were also described in a previous report by Fernandez (1979a). Additional background data from the study area are also described in those reports.

Table 3 contains (1) date and time of collection; (2) field determinations of temperature, specific conductance, pH, and alkalinity; (3) laboratory determinations of chloride, color, bicarbonate, calcium, magnesium, sodium, and potassium; and (4) calculated parameters for sodium adsorption ratio and hardness. Dissolved chloride, calcium, magnesium, sodium, potassium, sodium adsorption ratio, and hardness can serve as indicators of landfill-leachate pollution. Dissolved chloride in the raw leachate and surface water ranged from 68 to 180 milligrams per liter (mg/L) and from 9.8 to 430 mg/L in samples from peripheral ground-water wells. Temperatures of samples collected ranged from 14.5 to 34.5°C. Specific conductance, used as an index for estimating dissolved mineral content of water and dissolved solids, ranged from 400 to 2,400 micromhos per centimeter (umho/cm). Values for pH varied from 6.2 to 7.8 in water from ground-water wells, and between 6.6 and 9.3 for raw leachate and surface-water samples.

Nitrogen and phosphorous species are presented in table 4. These species, especially organic and ammonia nitrogen, are considered indicators of leachate migration, as are trace metals (U.S. Environmental Protection Agency, 1977). Raw leachate and water from the oxidation ponds, ditch "A" at SW-26, and wells C3, I3, O3, and LF-18 were analyzed for trace metals (table 5).

Table 6 presents bacterial analyses of raw leachate and water samples from the aeration and oxidation ponds and wells C1, C2, and C3 at the north oxidation pond. Ranges of total coliform were 220,000 to 6,900,000 colonies per 100 milliliters (col/100 mL) for raw leachate, 61,000 to 4,500,000 col/100 mL for the aeration pond, 120 to 180,000 col/100 mL for the north oxidation pond, and 380 to 12,000 col/100 mL for the south oxidation pond. Ranges of fecal coliform were 180,000 to 2,290,000 col/100 mL for raw leachate, 33,000 to 2,000,000 col/100 mL for the aeration pond, 230 to 46,000 col/100 mL for the north oxidation pond, and 50 to 210 col/100 mL for the south oxidation pond. Ranges for fecal streptococci for raw leachate were 2,000 to 2,700,000 col/100 mL, 1,200 to 2,100,000 col/100 mL for the aeration pond, 10 to <10,000 col/100 mL for the north oxidation pond, and <10 to 15,000 col/100 mL for the south oxidation pond.

Table 7 presents taxonomy of macroinvertebrates and phytoplankton and chlorophyll analyses performed to evaluate biota changes when leachate was introduced into a relatively pollution-free pond.

Table 8 presents the mean values of the chemical and coliform constituents. Analyses for raw leachate, aeration pond water, north oxidation pond surface water, south oxidation pond surface water, water from ditch "A" at SW-26, and water from LF-18 were totaled and averaged and are each shown as single sample locations. Ground-water quality monitoring locations are grouped together as follows: north oxidation pond sample locations include wells A1-4, C1-4, D1-5, E1-4, and F1-4; south oxidation pond sample locations include wells B1-4; and peripheral quality-monitoring wells include H1-4, I1-4, L1-4, M1-4, N1-4, O1-4, P1-4, and T1-3.

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- Weber, C. I., 1973, Biological field and laboratory methods for measuring the quality of surface-water effluents: U.S. Environmental Protection Agency, EPA/670/4-73-001.

Table 1.--Description of ground-water quality monitoring sites

Well number: Well locations are shown in figure 3.

Station number: Left of decimal point is latitude and longitude, right of decimal point is sequence number.

Date constructed: Well LF-18 was auger drilled in January 1975; well clusters I, J, K, L, M, N, O, P, Q, R, S, and T were constructed by jetting in February 1979; well clusters A, B, C, D, E, F, G, and H were constructed by auger drilling in March 1979.

Aquifer: Surficial aquifer

Altitude of land surface datum (LSD): Altitude, in feet above NGVD of 1929.

Well depth: Depth cased plus screen length, in feet below land surface.

Depth cased: Feet below land surface.

Casing diameter: 2 inches.

Screen length: All screens are attached to the bottom of casing, length in feet.

Screen diameter: 1.5 inches.

Well cluster, letter and number	Station number	Altitude of LSD	Well depth	Depth cased	Screen length
A1	2752260824021.01	6.33 $\frac{1}{2}$	1.0	0.5	0.5
A2	2752260824021.02	6.29 $\frac{1}{2}$	3.0	2.0	1.0
A3	2752260824021.03	6.37 $\frac{1}{2}$	5.0	4.0	1.0
A4	2752260824021.04	6.42 $\frac{1}{2}$	7.0	6.0	1.0
B1	2752260824021.11	6.44 $\frac{1}{2}$	1.0	0.5	0.5
B2	2752260824021.12	6.41 $\frac{1}{2}$	3.0	2.0	1.0
B3	2752260824021.13	6.59 $\frac{1}{2}$	5.0	4.0	1.0
B4	2752260824021.14	6.54 $\frac{1}{2}$	7.0	6.0	1.0
C1	2752270824020.01	10.56 $\frac{1}{2}$	1.0	0.5	0.5
C2	2752270824020.02	10.58 $\frac{1}{2}$	3.0	2.0	1.0
C3	2752270824020.03	10.57 $\frac{1}{2}$	5.0	4.0	1.0
C4	2752270824020.04	10.59 $\frac{1}{2}$	7.0	6.0	1.0
D1	2752270824020.11	8.23 $\frac{1}{2}$	1.0	0.5	0.5
D2	2752270824020.12	8.41 $\frac{1}{2}$	3.0	2.0	1.0
D3	2752270824020.13	8.51 $\frac{1}{2}$	5.0	4.0	1.0
D4	2752270824020.14	8.80 $\frac{1}{2}$	7.0	6.0	1.0
D5	2752270824020.15	9.00 $\frac{1}{2}$	10.0	9.0	1.0

Table 1.--Description of ground-water quality monitoring sites--Continued

Well cluster, letter and number	Station number	Altitude of LSD	Well depth	Depth cased	Screen length
E1	2752270824021.11	6.04 ^{1/}	1.0	0.5	0.5
E2	2752270824021.12	6.02 ^{1/}	3.0	2.0	1.0
E3	2752270824021.13	6.11 ^{1/}	5.0	4.0	1.0
E4	2752270824021.14	6.10 ^{1/}	7.0	6.0	1.0
F1	2752270824022.01	6.55 ^{1/}	1.0	0.5	0.5
F2	2752270824022.02	6.51 ^{1/}	3.0	2.0	1.0
F3	2752270824022.03	6.55 ^{1/}	5.0	4.0	1.0
F4	2752270824022.04	6.65 ^{1/}	7.0	6.0	1.0
G1	2752270824022.11	9.02	3.0	2.0	1.0
G2	2752270824022.12	9.01	5.0	4.0	1.0
G3	2752270824022.13	8.97	7.0	6.0	1.0
G4	2752270824022.14	9.01	10.0	9.0	1.0
H1	2752270824022.21	8.99	3.0	2.0	1.0
H2	2752270824022.22	8.97	5.0	4.0	1.0
H3	2752270824022.23	8.94	7.0	6.0	1.0
H4	2752270824022.24	8.97	10.0	9.0	1.0
I1	2752270824020.21	7.86	3.0	2.0	1.0
I2	2752270824020.22	7.83	5.0	4.0	1.0
I3	2752270824020.23	7.81	7.0	6.0	1.0
I4	2752270824020.24	7.77	10.0	9.0	1.0
J1	2752290824021.01	8.05	3.0	2.0	1.0
J2	2752290824021.02	8.01	5.0	4.0	1.0
J3	2752290824021.03	8.02	7.0	6.0	1.0
J4	2752290824021.04	8.08	10.0	9.0	1.0
K1	2752290824019.01	8.12	3.0	2.0	1.0
K2	2752290824019.02	8.04	5.0	4.0	1.0
K3	2752290824019.03	8.12	7.0	6.0	1.0
K4	2752290824019.04	8.11	10.0	9.0	1.0
L1	2752280824019.01	7.86	3.0	2.0	1.0
L2	2752280824019.02	7.80	5.0	4.0	1.0
L3	2752280824019.03	7.75	7.0	6.0	1.0
L4	2752280824019.04	7.70	10.0	9.0	1.0
M1	2752270824019.01	7.33	3.0	2.0	1.0
M2	2752270824019.02	7.28	5.0	4.0	1.0
M3	2752270824019.03	7.28	7.0	6.0	1.0
M4	2752270824019.04	7.30	10.0	9.0	1.0

Table 1.--Description of ground-water quality monitoring sites--Continued

Well cluster, letter and number	Station number	Altitude of LSD	Well depth	Depth cased	Screen length
N1	2752270824020.31	7.53	3.0	2.0	1.0
N2	2752270824020.32	7.51	5.0	4.0	1.0
N3	2752270824020.33	7.49	7.0	6.0	1.0
N4	2752270824020.34	7.51	10.0	9.0	1.0
O1	2752260824020.01	8.33	3.0	2.0	1.0
O2	2752260824020.02	8.27	5.0	4.0	1.0
O3	2752260824020.03	8.30	7.0	6.0	1.0
O4	2752260824020.04	8.26	10.0	9.0	1.0
P1	2752260824019.01	8.39	3.0	2.0	1.0
P2	2752260824019.02	8.35	5.0	4.0	1.0
P3	2752260824019.03	8.24	7.0	6.0	1.0
P4	2752260824019.04	8.28	10.0	9.0	1.0
Q1	2752240824020.01	7.71	3.0	2.0	1.0
Q2	2752240824020.02	7.74	5.0	4.0	1.0
Q3	2752240824020.03	7.77	7.0	6.0	1.0
Q4	2752240824020.04	7.66	10.0	9.0	1.0
R1	2752240824019.11	7.72	3.0	2.0	1.0
R2	2752240824019.12	7.79	5.0	4.0	1.0
R3	2752240824019.13	7.83	7.0	6.0	1.0
R4	2752240824019.14	7.69	10.0	9.0	1.0
S1	2752230824020.01	7.50	3.0	2.0	1.0
S2	2752230824020.02	7.41	5.0	4.0	1.0
S3	2752230824020.03	7.35	7.0	6.0	1.0
S4	2752230824020.04	7.27	10.0	9.0	1.0
T1	2752280824019.05	<u>2/</u>	1.0	0.5	0.5
T2	2752280824019.06	<u>2/</u>	2.55	1.55	1.0
T3	2752280824019.07	<u>2/</u>	5.8	4.8	1.0
LF-18	2752100824116.01	11.69	17.5	10.5	7.0

1/Altitude of bottom of pond2/Wells in ditch "A"

Table 2.--Description of surface-water quality monitoring sites

Surface-water letter and/or number: Surface-water sites are shown in figures 2 and 3.

Station number: Left of decimal is latitude and longitude, right of decimal is sequence number.

Date established: Month and year.

Surface-water letter and/or number	Station number	Date established	Remarks
SW-RL	2752280824020.01	11-78	Near aeration pond
SW-TL	2752280824020.00	11-78	At aeration pond
NOP	2752270824020.00	2-78	North oxidation pond, near well cluster C
SOP	2752250824020.00	2-78	South oxidation pond, near well cluster B
SW-2	2752050824116.00	1-75	North shore of lake
SW-24	2752210824019.00	1-75	On ditch "A", south of oxidation ponds
SW-25	2752280824019.00	1-75	On ditch "A", east of oxidation ponds
SW-26	2752310824019.00	1-75	On ditch "A", northeast of oxidation ponds

For clarification, the following sample location descriptions and analytical value descriptors are explained for tables 3-6:

ID number - 275226082402101

Site name - PINCOLF (Pinellas Co. Landfill)

Well cluster, letter and number or surface-water letter and/or number - A-1

Location descriptors - NPND NR PINELLAS PARK
(near north oxidation pond)

Note: See figures

2 and 3; all sample locations are described as being near Pinellas Park.

- SPND NR PINELLAS PARK
(near south oxidation pond)

- E NR PINELLAS PARK
(east of oxidation ponds)

- W NR PINELLAS PARK
(west of oxidation ponds)

- NE NR PINELLAS PARK
(northeast of oxidation ponds)

- RAW LEACHATE FROM CELL NR PINELLAS PARK
(raw untreated leachate from open trenches)

- AER PND NR PINELLAS PARK
(aeration pond sample, north of oxidation ponds)

- OXD PND N NR PINELLAS PARK
(north oxidation pond)

- OXD PND S NR PINELLAS PARK
(south oxidation pond)

- LF-18 (background well, west of oxidation ponds)

- CSW-25 (surface-water locations in ditch "A", east of oxidation ponds)

- Ditch "A" SW-26 (surface-water locations in Ditch "A", east of oxidation ponds)

- SW-2 (background surface-water location, west of oxidation ponds)

Analytical value descriptors

- E beside value = estimated value

- K beside value = nonideal plate count

- Mg/L = milligrams per liter

- Ug/L = micrograms per liter

TABLE 3. WATER-QUALITY DATA FOR FIELD MEASUREMENTS AND MAJOR CONSTITUENTS

(SAMPLE LOCATION DESCRIPTOR: ID NUMBER; SITE NAME; WELL CLUSTER
LETTER AND NUMBER OR SURFACE-WATER LETTER AND/OR NUMBER;
LOCATION DESCRIPTOR; LATITUDE AND LONGITUDE)

DATE	TIME	TEMPER- ATURE, WATER (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	COLOR (PLAT- INUM COBALT UNITS) (00080)	ALKA- LITY (MG/L AS CACO3) (00410)	BICAR- BONATE (MG/L AS HCO3) (00440)
275226082402101 - PINCOLF A 1 NPND NR PINELLAS PARK (LAT 27 52 26 LONG 082 40 21)								
JUL , 1980								
07...	1200	30.0	985	7.1	120	--	--	--
275226082402102 - PINCOLF A 2 NPND NR PINELLAS PARK (LAT 27 52 26 LONG 082 40 21)								
JUL , 1980								
07...	1245	30.0	1020	6.8	120	--	--	--
275226082402103 - PINCOLF A 3 NPND NR PINELLAS PARK (LAT 27 52 26 LONG 082 40 21)								
JUL , 1980								
07...	1310	29.0	1000	6.8	120	--	--	--
275226082402104 - PINCOLF A 4 NPND NR PINELLAS PARK (LAT 27 52 26 LONG 082 40 21)								
JUL , 1980								
07...	1325	28.0	1000	6.8	120	--	--	--
275226082402111 - PINCOLF B 1 SPND NR PINELLAS PARK (LAT 27 52 26 LONG 082 40 21)								
AUG , 1979								
15...	1340	31.5	1375	6.5	170	--	--	--
30...	1100	29.0	1450	6.4	190	--	--	--
SEP								
06...	1150	29.0	1600	6.4	200	--	--	--
27...	1400	29.0	1500	--	200	--	--	--
OCT								
18...	1330	27.5	1450	7.2	150	--	--	--
DEC								
14...	1122	22.5	830	6.5	170	--	--	--
JAN , 1980								
03...	1015	20.0	1380	7.0	130	--	--	--
MAY								
21...	1407	29.5	1100	7.0	120	--	--	--
JUL								
08...	0850	28.0	1320	6.2	130	--	--	--

TABLE 3. WATER-QUALITY DATA FOR FIELD MEASUREMENTS AND MAJOR CONSTITUENTS -CONTINUED

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM AD- SORP- TION RATIO (00931)	HARD- NESS (MG/L AS CAC03) (00900)	HARD- NESS, NONCAR- BONATE (MG/L CAC03) (00902)
275226082402101 - PINCOLF A 1 NPND NR PINELLAS PARK (LAT 27 52 26 LONG 082 40 21)							
JUL , 1980							
07...	130	15	73	9.6	1.6	386	--
AUG							
07...	110	--	--	--	--	--	--
275226082402102 - PINCOLF A 2 NPND NR PINELLAS PARK (LAT 27 52 26 LONG 082 40 21)							
JUL , 1980							
07...	120	15	75	12	1.7	360	--
275226082402103 - PINCOLF A 3 NPND NR PINELLAS PARK (LAT 27 52 26 LONG 082 40 21)							
JUL , 1980							
07...	120	15	75	12	1.7	360	--
275226082402104 - PINCOLF A 4 NPND NR PINELLAS PARK (LAT 27 52 26 LONG 082 40 21)							
JUL , 1980							
07...	120	15	75	11	1.7	360	--
275226082402111 - PINCOLF B 1 SPND NR PINELLAS PARK (LAT 27 52 26 LONG 082 40 21)							
AUG , 1979							
15...	170	11	88	4.2	1.8	470	470
30...	170	12	78	3.2	1.6	470	470
SEP							
06...	190	14	96	3.0	1.8	530	--
27...	200	15	98	3.0	1.8	560	--
OCT							
18...	170	12	77	3.4	1.5	470	--
DEC							
14...	E240	E19	130	1.9	--	--	--
JAN , 1980							
03...	210	15	95	2.4	1.7	590	--
MAY							
21...	120	13	85	9.4	2.0	350	--
JUL							
08...	180	16	92	2.3	1.8	520	--

TABLE 3. WATER-QUALITY DATA FOR FIELD MEASUREMENTS AND MAJOR CONSTITUENTS -CONTINUED

DATE	TIME	TEMPER- ATURE, WATER (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	COLOR (PLAT- INUM COBALT UNITS) (00080)	ALKA- LITY (MG/L AS CAC03) (00410)	BICAR- BONATE (MG/L AS HC03) (00440)
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275226082402112 - PINCOLF B 2 SPND NR PINELLAS PARK (LAT 27 52 26 LONG 082 40 21)

AUG , 1979

15... 1345 28.5 1125 6.6 160 -- -- --

30... 1120 28.5 1200 6.7 170 -- -- --

SEP

06... 1200 28.0 1340 6.6 170 -- -- --

27... 1410 28.0 1380 -- 430 -- -- --

OCT

18... 1340 27.5 1300 6.4 170 -- -- --

DEC

14... 1111 23.0 830 6.6 190 -- -- --

JAN , 1980

03... 1030 20.0 1300 7.0 98 -- -- --

MAY

21... 1426 27.0 1220 7.0 94 -- -- --

JUL

08... 0930 26.0 1120 6.7 110 -- -- --

275226082402113 - PINCOLF B 3 SPND NR PINELLAS PARK (LAT 27 52 26 LONG 082 40 21)

AUG , 1979

15... 1350 28.0 1100 6.7 110 -- -- --

30... 1135 28.0 1190 6.8 170 -- -- --

SEP

06... 1220 28.5 1320 6.6 170 -- -- --

27... 1420 27.5 1350 -- 170 -- -- --

OCT

18... 1355 27.5 1350 7.1 180 -- -- --

DEC

14... 1101 23.3 850 6.7 150 -- -- --

JAN , 1980

03... 1046 19.9 1370 6.9 130 -- -- --

MAY

21... 1446 27.0 1080 7.1 82 -- -- --

JUL

08... 0945 26.0 1140 6.8 110 -- -- --

TABLE 3. WATER-QUALITY DATA FOR FIELD MEASUREMENTS AND MAJOR CONSTITUENTS -CONTINUED

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM AD- SORP- TION RATIO (00931)	HARD- NESS (MG/L AS CAC03) (00900)	HARD- NESS, NONCAR- BONATE (MG/L CAC03) (00902)
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275226082402112 - PINCOLF B 2 SPND NR PINELLAS PARK (LAT 27 52 26 LONG 082 40 21)

AUG , 1979							
15...	130	8.6	79	2.0	1.8	360	360
30...	130	11	90	1.0	2.0	370	370
SEP							
06...	150	11	93	.8	2.0	420	--
OCT							
18...	170	12	78	.7	1.6	470	--
DEC							
14...	E240	E17	130	.7	--	--	--
JAN , 1980							
03...	160	12	78	7.8	1.6	450	--
MAY							
21...	150	13	95	2.8	2.0	430	--
JUL							
08...	120	14	87	.6	2.0	360	--

275226082402113 - PINCOLF B 3 SPND NR PINELLAS PARK (LAT 27 52 26 LONG 082 40 21)

AUG , 1979							
15...	120	8.5	79	1.1	1.9	330	330
30...	140	9.4	70	.6	1.5	390	390
SEP							
06...	160	11	93	.6	1.6	440	--
27...	160	11	86	.5	1.8	440	--
OCT							
18...	160	11	74	.6	1.5	440	--
DEC							
14...	E220	E15	120	.6	--	--	--
JAN , 1980							
03...	210	15	97	1.2	1.7	590	--
MAY							
21...	140	12	88	1.1	1.9	400	--
JUL							
08...	160	13	86	.6	1.8	450	--

TABLE 3. WATER-QUALITY DATA FOR FIELD MEASUREMENTS AND MAJOR CONSTITUENTS -CONTINUED

DATE	TIME	TEMPER- ATURE, WATER (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	COLOR (PLAT- INUM COBALT UNITS) (00080)	ALKA- LINITY (MG/L AS CAC03) (00410)	BICAR- BONATE (MG/L AS HC03) (00440)
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275226082402114 - PINCOLF B 4 SPND NR PINELLAS PARK (LAT 27 52 26 LONG 082 40 21)

AUG , 1979								
15...	1355	27.5	1175	6.6	160	--	--	--
30...	1145	27.5	1250	6.7	170	--	--	--
SEP								
06...	1235	27.5	1300	6.7	160	--	--	--
27...	1430	27.5	1300	--	160	--	--	--
OCT								
18...	1400	27.5	1300	7.5	--	--	--	--
DEC								
14...	1052	24.0	850	6.7	170	--	--	--
JAN , 1980								
03...	1115	19.8	1425	6.7	140	--	--	--
MAY								
21...	1455	26.5	1090	7.0	88	--	--	--
JUL								
08...	1010	25.7	1040	6.8	110	--	--	--

275227082402001 - PINCOLF C 1 NPND NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 20)

MAR , 1979								
28...	1400	24.0	1340	7.2	210	5	357	435
AUG								
15...	1215	32.5	1125	6.8	43	--	--	--
30...	1430	31.0	1225	7.1	180	--	--	--
SEP								
06...	1355	28.0	1250	6.8	210	--	--	--
27...	1310	29.0	1300	--	180	--	--	--
OCT								
18...	1225	27.0	975	6.5	160	--	--	--
JAN , 1980								
02...	1256	18.7	825	7.3	110	--	--	--
MAY								
21...	1245	31.5	1040	7.5	88	--	--	--
JUL								
08...	1040	30.0	1000	7.3	120	--	--	--

TABLE 3. WATER-QUALITY DATA FOR FIELD MEASUREMENTS AND MAJOR CONSTITUENTS -CONTINUED

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM AD- SORP- TION RATIO (00931)	HARD- NESS (MG/L AS CAC03) (00900)	HARD- NESS, NONCAR- BONATE (MG/L CAC03) (00902)
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275226082402114 - PINCOLF B 4 SPND NR PINELLAS PARK (LAT 27 52 26 LONG 082 40 21)

AUG , 1979							
15...	130	9.6	79	1.1	1.8	360	360
30...	150	11	75	.7	1.6	420	420
SEP							
06...	160	11	80	.7	1.7	440	--
OCT							
18...	150	11	74	.7	1.6	420	--
DEC							
14...	E210	E15	92	1.2	--	--	--
JAN , 1980							
03...	200	15	90	1.8	1.7	560	--
MAY							
21...	140	10	82	1.3	1.8	390	--
JUL							
08...	140	11	90	.8	2.0	400	--

275227082402001 - PINCOLF C 1 NPND NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 20)

MAR , 1979							
28...	130	15	110	1.2	2.4	390	31
AUG							
15...	110	12	100	1.5	2.4	320	320
30...	110	12	100	2.3	2.4	320	320
SEP							
06...	110	9.6	100	.8	2.5	310	--
27...	130	12	100	3.0	2.3	370	--
OCT							
18...	79	6.8	80	.7	2.3	230	--
DEC							
14...	E75	E7.4	71	11	--	--	--
JAN , 1980							
02...	76	72	75	19	1.5	490	--
MAY							
21...	99	11	88	14	2.2	290	--
JUL							
08...	100	10	87	14	2.2	290	--

TABLE 3. WATER-QUALITY DATA FOR FIELD MEASUREMENTS AND MAJOR CONSTITUENTS -CONTINUED

DATE	TIME	TEMPER- ATURE, WATER (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	COLOR (PLAT- INUM COBALT UNITS) (00080)	ALKA- LITY (MG/L AS CAC03) (00410)	BICAR- BONATE (MG/L AS HC03) (00440)
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275227082402002 - PINCOLF C 2 NPND NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 20)

MAR , 1979								
28...	1340	24.0	1375	6.5	220	5	299	365
AUG								
15...	1140	28.0	990	7.1	160	--	--	--
30...	1450	29.0	1200	7.1	160	--	--	--
SEP								
06...	1410	27.0	825	7.0	160	--	--	--
27...	1320	28.5	1500	--	170	--	--	--
OCT								
18...	1235	27.0	1100	6.8	140	--	--	--
DEC								
14...	1356	21.6	800	7.6	--	--	--	--
JAN , 1980								
02...	1312	19.6	875	7.6	94	--	--	--
MAY								
21...	1317	28.0	1200	6.8	84	--	--	--
JUL								
08...	1245	28.5	1090	7.0	120	--	--	--

275227082402003 - PINCOLF C 3 NPND NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 20)

MAR , 1979								
28...	1315	24.8	1640	6.4	260	5	413	503
JUN								
07...	1120	29.0	1100	6.9	220	--	--	--
JUL								
17...	1000	30.5	1140	6.8	210	--	--	--
AUG								
15...	1150	28.5	875	7.1	140	--	--	--
30...	1510	28.0	900	7.0	140	--	--	--
SEP								
06...	1420	26.5	1250	6.8	140	--	--	--
27...	1335	27.0	850	--	130	--	--	--
OCT								
18...	1245	27.0	1500	6.6	170	--	--	--
NOV								
15...	1120	24.5	1500	6.8	170	--	--	--
DEC								
14...	1411	21.5	850	7.0	--	--	--	--
JAN , 1980								
02...	1349	18.5	1025	7.0	110	--	--	--
FEB								
26...	1000	15.0	840	7.1	100	--	--	--
APR								
15...	1100	21.0	1060	7.4	100	--	--	--
MAY								
21...	1328	27.0	1230	6.7	76	--	--	--
JUL								
08...	1320	28.0	1130	6.7	98	--	--	--

TABLE 3. WATER-QUALITY DATA FOR FIELD MEASUREMENTS AND MAJOR CONSTITUENTS -CONTINUED

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM AD- SORP- TION RATIO (00931)	HARD- NESS (MG/L AS CAC03) (00900)	HARD- NESS, NONCAR- BONATE (MG/L CAC03) (00902)
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275227082402002 - PINCOLF C 2 NPND NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 20)

MAR , 1979							
28...	140	15	100	.9	2.1	410	110
AUG							
15...	74	7.0	99	.6	2.9	210	210
30...	120	12	110	.7	2.6	350	350
SEP							
06...	69	6.1	94	.6	2.9	200	--
27...	150	14	130	.9	2.7	430	--
OCT							
18...	90	8.1	96	.5	2.6	260	--
DEC							
14...	E62	E5.2	86	1.4	--	--	--
JAN , 1980							
02...	63	5.0	87	1.2	2.9	178	--
MAY							
21...	150	14	92	3.4	1.9	430	--
JUL							
08...	140	14	77	4.7	1.7	410	--

275227082402003 - PINCOLF C 3 NPND NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 20)

MAR , 1979							
28...	180	18	140	.7	2.7	530	110
JUN							
07...	120	11	91	.7	2.1	350	--
JUL							
17...	100	10	120	.7	3.1	290	290
AUG							
15...	67	6.3	90	.5	2.8	190	190
30...	63	6.2	90	.5	2.9	180	180
SEP							
06...	120	11	120	.8	2.8	350	--
27...	67	5.9	88	.5	2.8	190	--
OCT							
18...	160	16	120	.9	2.4	470	--
NOV							
15...	150	15	160	.7	3.3	440	--
DEC							
14...	E110	E10	120	.8	--	--	--
JAN , 1980							
02...	120	11	160	.7	3.7	350	--
FEB							
26...	83	7.3	90	1.4	2.5	240	--
APR							
15...	140	12	92	1.9	2.0	400	--
MAY							
21...	150	14	100	1.1	2.1	430	--
JUL							
08...	160	16	88	.9	1.8	470	--

TABLE 3. WATER-QUALITY DATA FOR FIELD MEASUREMENTS AND MAJOR CONSTITUENTS -CONTINUED

DATE	TIME	TEMPER- ATURE. WATER (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	COLOR (PLAT- INUM COBALT UNITS) (00080)	ALKA- LITY (MG/L AS CAC03) (00410)	BICAR- BONATE (MG/L AS HC03) (00440)
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275227082402004 - PINCOLF C 4 NPND NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 20)

MAR , 1979								
28...	1300	24.0	1720	6.2	260	5	378	461
AUG								
15...	1205	28.3	1325	6.8	220	--	--	--
30...	1330	28.0	1300	6.8	220	--	--	--
SEP								
06...	1450	27.5	1260	7.0	190	--	--	--
27...	1345	27.5	1100	--	190	--	--	--
OCT								
18...	1255	27.0	1420	6.8	180	--	--	--
DEC								
14...	1439	21.5	890	6.7	--	--	--	--
JAN , 1980								
02...	1335	17.5	1310	6.7	140	--	--	--
MAY								
21...	1350	26.0	1200	6.8	82	--	--	--
JUL								
08...	1345	27.0	1200	6.7	84	--	--	--

275227082402011 - PINCOLF D 1 NPND NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 20)

DEC , 1979								
14...	1454	22.7	810	7.4	83	--	--	--
JAN , 1980								
02...	1350	18.7	1110	7.4	94	--	--	--
JUL								
09...	0840	--	960	6.7	120	--	--	--

TABLE 3. WATER-QUALITY DATA FOR FIELD MEASUREMENTS AND MAJOR CONSTITUENTS -CONTINUED

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM AD- SORP- TION RATIO (00931)	HARD- NESS (MG/L AS CAC03) (00900)	HARD- NESS, NONCAR- BONATE (MG/L CAC03) (00902)
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275227082402004 - PINCOLF C 4 NPND NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 20)

MAR , 1979							
28...	180	17	140	1.0	2.7	520	140
AUG							
15...	120	11	120	.9	2.8	350	350
30...	110	11	110	.8	2.7	320	320
SEP							
06...	130	13	100	1.9	2.2	380	--
27...	93	8.3	96	.8	2.6	270	--
OCT							
18...	140	12	97	4.0	2.1	400	--
DEC							
14...	E170	E14	140	.9	--	--	--
JAN , 1980							
02...	160	14	180	1.4	3.7	457	--
MAY							
21...	150	14	110	1.0	2.3	430	--
JUL							
08...	170	16	85	1.0	1.7	490	--

275227082402011 - PINCOLF D 1 NPND NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 20)

DEC , 1979							
14...	E100	E9.5	61	11	--	--	--
JAN , 1980							
02...	170	14	76	19	1.5	480	--
JUL							
09...	99	14	73	14	1.8	310	--

TABLE 3. WATER-QUALITY DATA FOR FIELD MEASUREMENTS AND MAJOR CONSTITUENTS -CONTINUED

DATE	TIME	TEMPER- ATURE, WATER (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	COLOR (PLAT- INUM COBALT UNITS) (00080)	ALKA- LITY (MG/L AS CAC03) (00410)	BICAR- BONATE (MG/L AS HC03) (00440)
275227082402012 - PINCOLF D 2 NPND NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 20)								
DEC , 1979								
14...	1513	23.0	800	7.8	86	--	--	--
JAN , 1980								
02...	1405	18.0	1100	7.8	94	--	--	--
JUL								
08...	1450	30.0	950	7.0	120	--	--	--
275227082402013 - PINCOLF D 3 NPND NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 20)								
DEC , 1979								
14...	1521	--	--	--	87	--	--	--
JAN , 1980								
02...	1416	18.0	1000	7.1	88	--	--	--
JUL								
08...	1515	29.0	990	7.0	120	--	--	--
275227082402014 - PINCOLF D 4 NPND NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 20)								
DEC , 1979								
14...	1529	--	--	--	83	--	--	--
JAN , 1980								
02...	1430	18.0	900	7.3	80	--	--	--
JUL								
08...	1535	28.0	920	7.0	110	--	--	--
275227082402015 - PINCOLF D 5 NPND NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 20)								
DEC , 1979								
14...	1537	23.4	845	7.0	--	--	--	--
JAN , 1980								
02...	1442	18.4	875	7.0	77	--	--	--
JUL								
08...	1550	28.0	910	6.9	110	--	--	--

TABLE 3. WATER-QUALITY DATA FOR FIELD MEASUREMENTS AND MAJOR CONSTITUENTS -CONTINUED

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM AD- SORP- TION RATIO (00931)	HARD- NESS (MG/L AS CACO3) (00900)	HARD- NESS, NONCAR- BONATE (MG/L CACO3) (00902)
275227082402012 - PINCOLF D 2 NPND NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 20)							
JAN , 1980							
02....	150	16	72	18	1.5	440	--
JUL							
08....	110	15	78	13	1.9	340	--
275227082402013 - PINCOLF D 3 NPND NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 20)							
JAN , 1980							
02....	120	16	73	19	1.7	370	--
JUL							
08....	110	14	78	15	1.9	330	--
275227082402014 - PINCOLF D 4 NPND NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 20)							
DEC , 1979							
14....	E90	E9.3	72	3.6	--	--	--
JAN , 1980							
02....	100	12	65	3.4	1.6	300	--
JUL							
08....	95	13	75	19	1.9	290	--
275227082402015 - PINCOLF D 5 NPND NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 20)							
DEC , 1979							
14....	E84	E8.2	78	5.1	--	--	--
JAN , 1980							
02....	100	11	69	4.5	1.7	300	--
JUL							
08....	100	11	75	14	1.9	300	--

TABLE 3. WATER-QUALITY DATA FOR FIELD MEASUREMENTS AND MAJOR CONSTITUENTS -CONTINUED

DATE	TIME	TEMPER- ATURE, WATER (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	COLOR (PLAT- INUM COBALT UNITS) (00080)	ALKA- LITY (MG/L AS CACO3) (00410)	BICAR- BONATE (MG/L AS HCO3) (00440)
275227082402201 - PINCOLF F 1 NPND NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 22)								
DEC , 1979								
14...	1327	20.5	840	7.3	--	--	--	--
JAN , 1980								
02...	1117	18.5	1100	7.3	100	--	--	--
275227082402202 - PINCOLF F 2 NPND NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 22)								
DEC , 1979								
14...	1318	20.4	850	7.2	--	--	--	--
JAN , 1980								
02...	1134	18.4	1150	7.2	100	--	--	--
275227082402203 - PINCOLF F 3 NPND NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 22)								
DEC , 1979								
14...	1307	20.8	840	7.1	--	--	--	--
JAN , 1980								
02...	1140	17.8	975	7.1	88	--	--	--
275227082402204 - PINCOLF F 4 NPND NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 22)								
DEC , 1979								
14...	1258	21.7	840	7.4	--	--	--	--
JAN , 1980								
02...	1149	17.7	900	7.4	83	--	--	--

TABLE 3. WATER-QUALITY DATA FOR FIELD MEASUREMENTS AND MAJOR CONSTITUENTS -CONTINUED

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM AD- SORP- TION RATIO (00931)	HARD- NESS (MG/L AS CAC03) (00900)	HARD- NESS, NONCAR- BONATE (MG/L CAC03) (00902)
275227082402201 - PINCOLF F 1 NPND NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 22)							
JAN , 1980 02...	170	13	74	19	1.5	480	--
275227082402202 - PINCOLF F 2 NPND NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 22)							
DEC , 1979 14... E110		E10	60	14	--	--	--
JAN , 1980 02...	170	14	75	18	1.5	482	--
275227082402203 - PINCOLF F 3 NPND NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 22)							
DEC , 1979 14... E84		E12	74	15	--	--	--
JAN , 1980 02...	120	15	72	14	1.6	360	--
275227082402204 - PINCOLF F 4 NPND NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 22)							
JAN , 1980 02...	120	12	70	12	1.6	350	--

TABLE 3. WATER-QUALITY DATA FOR FIELD MEASUREMENTS AND MAJOR CONSTITUENTS -CONTINUED

DATE	TIME	TEMPER- ATURE, WATER (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	COLOR (PLAT- INUM COBALT UNITS) (00080)	ALKA- LITY (MG/L AS CAC03) (00410)	BICAR- BONATE (MG/L AS HC03) (00440)
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275227082402221 - PINCOLF H 1 W NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 22)

AUG , 1979

15... 1410 29.5 1000 6.5 50 -- -- --

30... 1330 29.0 625 6.2 10 -- -- --

SEP

06... 1250 29.0 550 6.6 9.8 -- -- --

27... 1215 28.5 625 -- 11 -- -- --

DEC

13... 1103 22.5 750 6.6 -- -- -- --

JAN , 1980

03... 1210 19.5 1300 6.7 77 -- -- --

JUL

09... 1120 29.5 1080 6.7 100 -- -- --

275227082402222 - PINCOLF H 2 W NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 22)

AUG , 1979

15... 1415 27.5 900 6.4 27 -- -- --

30... 1350 29.0 790 6.8 16 -- -- --

SEP

06... 1300 28.0 740 6.7 13 -- -- --

27... 1220 28.0 700 -- 11 -- -- --

DEC

13... 1010 23.6 725 6.6 33 -- -- --

JAN , 1980

03... 1131 20.6 810 6.8 51 -- -- --

JUL

09... 1135 27.5 1030 6.8 100 -- -- --

TABLE 3. WATER-QUALITY DATA FOR FIELD MEASUREMENTS AND MAJOR CONSTITUENTS -CONTINUED

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM AD- SORP- TION RATIO (00931)	HARD- NESS (MG/L AS CAC03) (00900)	HARD- NESS, NONCAR- BONATE (MG/L CAC03) (00902)
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275227082402221 - PINCOLF H 1 W NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 22)

AUG , 1979

15...	130	13	59	19	1.3	380	380
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30...	120	7.4	11	5.5	.3	330	330
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SEP

06...	94	5.8	8.1	4.7	.2	260	--
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27...	100	6.8	8.9	3.2	.2	280	--
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JAN , 1980

03...	190	10	68	3.0	1.3	520	--
-------	-----	----	----	-----	-----	-----	----

JUL

09...	160	12	68	1.8	1.4	450	--
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275227082402222 - PINCOLF H 2 W NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 22)

AUG , 1979

15...	120	9.4	35	8.5	.8	340	340
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30...	110	6.8	21	9.4	.5	300	300
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SEP

06...	120	6.1	19	9.4	.5	320	--
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27...	120	5.8	12	9.6	.3	320	--
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DEC

13...	110	8.2	36	2.1	--	--	--
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JAN , 1980

03...	160	11	40	2.0	.8	450	--
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JUL

09...	150	12	73	.8	1.5	420	--
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TABLE 3. WATER-QUALITY DATA FOR FIELD MEASUREMENTS AND MAJOR CONSTITUENTS -CONTINUED

DATE	TIME	TEMPER- ATURE, WATER (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	COLOR (PLAT- INUM COBALT UNITS) (00080)	ALKA- LITY (MG/L AS CACO3) (00410)	BICAR- BONATE (MG/L AS HCO3) (00440)
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275227082402223 - PINCOLF H 3 W NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 22)

AUG , 1979								
15...	1420	28.0	900	6.6	30	--	--	--
30...	1400	28.0	725	6.8	18	--	--	--
SEP								
06...	1310	27.0	700	6.7	15	--	--	--
27...	1225	27.0	700	--	12	--	--	--
DEC								
13...	1055	23.7	650	7.0	26	--	--	--
JAN , 1980								
03...	1135	20.7	925	7.0	49	--	--	--
JUL								
09...	1150	27.0	1040	6.8	100	--	--	--

275227082402224 - PINCOLF H 4 W NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 22)

AUG , 1979								
15...	1425	27.0	725	6.8	--	--	--	--
30...	1410	27.5	660	6.9	25	--	--	--
SEP								
06...	1320	26.5	675	6.8	22	--	--	--
27...	1235	27.0	650	--	25	--	--	--
DEC								
13...	1037	23.6	700	7.1	27	--	--	--
JAN , 1980								
03...	1142	20.6	975	7.1	53	--	--	--
JUL								
09...	1220	29.0	920	6.7	100	--	--	--

275227082402021 - PINCOLF I 1 NE NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 20)

MAY , 1980								
21...	1025	28.5	1230	7.8	98	--	--	--

275227082402022 - PINCOLF I 2 NE NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 20)

MAY , 1980								
21...	1045	29.0	1950	7.1	100	--	--	--
JUL								
09...	0950	28.2	1290	7.1	120	--	--	--

TABLE 3. WATER-QUALITY DATA FOR FIELD MEASUREMENTS AND MAJOR CONSTITUENTS -CONTINUED

	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM AD- SORP- TION RATIO (00931)	HARD- NESS (MG/L AS CAC03) (00900)	HARD- NESS, NONCAR- BONATE (MG/L CAC03) (00902)
DATE							

275227082402223 - PINCOLF H 3 W NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 22)

AUG , 1979

15...	130	10	38	12	.9	370	370
30...	120	5.9	21	4.1	.5	320	320

SEP

06...	120	6.0	21	5.0	.5	320	--
27...	110	5.8	17	5.0	.4	300	--

JAN , 1980

03...	150	13	42	.8	.9	430	--
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JUL

09...	140	16	79	.4	1.7	420	--
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275227082402224 - PINCOLF H 4 W NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 22)

AUG , 1979

15...	92	8.0	44	.9	1.2	260	260
30...	89	9.2	33	.2	.9	260	260

SEP

06...	97	9.4	32	.2	.8	280	--
27...	88	8.2	32	.3	.9	250	--

DEC

13...	E110	E13	61	.3	--	--	--
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JAN , 1980

03...	120	15	74	.4	1.7	360	--
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JUL

09...	160	11	72	1.6	1.5	450	--
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275227082402022 - PINCOLF I 2 NE NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 20)

MAY , 1980

21...	150	31	270	1.0	5.2	500	--
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JUL

09...	150	22	210	.5	4.2	470	--
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TABLE 3. WATER-QUALITY DATA FOR FIELD MEASUREMENTS AND MAJOR CONSTITUENTS -CONTINUED

DATE	TIME	TEMPER- ATURE, WATER (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	COLOR (PLAT- INUM COBALT UNITS) (00080)	ALKA- LITY (MG/L AS CAC03) (00410)	BICAR- BONATE (MG/L AS HC03) (00440)
275227082402023 - PINCOLF I 3 NE NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 20)								
JUN , 1979								
07...	1150	29.0	1460	6.9	150	--	--	--
JUL								
17...	1100	31.0	1420	6.9	130	--	--	--
NOV								
15...	1105	24.6	1540	6.8	210	--	--	--
FEB , 1980								
26...	0930	17.0	2400	7.1	330	--	--	--
APR								
15...	1005	21.5	2200	7.1	220	--	--	--
MAY								
21...	1110	29.0	1860	6.9	88	--	--	--
JUL								
09...	1030	28.5	1250	6.8	110	--	--	--
275227082402024 - PINCOLF I 4 NE NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 20)								
MAY , 1980								
21...	1120	27.0	2400	6.8	320	--	--	--
JUL								
09...	1100	28.5	1290	6.9	200	--	--	--
275228082401901 - PINCOLF L 1 NE NR PINELLAS PARK (LAT 27 52 28 LONG 082 40 19)								
JUL , 1980								
10...	1450	28.0	1120	6.7	120	--	--	--
275228082401902 - PINCOLF L 2 NE NR PINELLAS PARK (LAT 27 52 28 LONG 082 40 19)								
MAY , 1980								
20...	1530	32.0	960	7.3	82	--	--	--
JUL								
10...	1500	27.0	1080	6.6	100	--	--	--
275228082401903 - PINCOLF L 3 NE NR PINELLAS PARK (LAT 27 52 28 LONG 082 40 19)								
MAY , 1980								
20...	1555	--	--	--	62	--	--	--
JUL								
10...	1515	26.5	1180	6.5	120	--	--	--
275228082401904 - PINCOLF L 4 NE NR PINELLAS PARK (LAT 27 52 28 LONG 082 40 19)								
MAY , 1980								
20...	1615	27.5	1080	7.3	110	--	--	--
JUL								
10...	1530	26.5	1300	6.6	200	--	--	--

TABLE 3. WATER-QUALITY DATA FOR FIELD MEASUREMENTS AND MAJOR CONSTITUENTS -CONTINUED

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM AD- SORP- TION RATIO (00931)	HARD- NESS (MG/L AS CAC03) (00900)	HARD- NESS, NONCAR- BONATE (MG/L CAC03) (00902)
275227082402023 - PINCOLF I 3 NE NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 20)							
JUN , 1979							
07...	63	10	260	.3	8.0	200	--
JUL							
17...	55	9.7	320	.3	10	180	180
NOV							
15...	120	21	160	.3	3.5	390	--
FEB , 1980							
26...	270	48	160	.8	2.4	880	--
APR							
15...	230	38	200	.9	3.2	730	--
MAY							
21...	180	28	290	.7	5.3	570	--
JUL							
09...	160	20	190	.4	3.8	480	--
275227082402024 - PINCOLF I 4 NE NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 20)							
MAY , 1980							
21...	200	20	300	1.0	5.4	580	--
JUL							
09...	150	13	230	.6	4.8	430	--
275228082401901 - PINCOLF L 1 NE NR PINELLAS PARK (LAT 27 52 28 LONG 082 40 19)							
JUL , 1930							
10...	150	13	75	4.2	1.6	430	--
275228082401902 - PINCOLF L 2 NE NR PINELLAS PARK (LAT 27 52 28 LONG 082 40 19)							
MAY , 1980							
20...	130	8.0	60	.8	1.4	360	--
JUL							
10...	140	15	56	.4	1.2	410	--
275228082401903 - PINCOLF L 3 NE NR PINELLAS PARK (LAT 27 52 28 LONG 082 40 19)							
MAY , 1980							
20...	150	8.5	40	1.2	.9	410	--
JUL							
10...	190	11	50	.9	1.0	520	--
275228082401904 - PINCOLF L 4 NE NR PINELLAS PARK (LAT 27 52 28 LONG 082 40 19)							
MAY , 1980							
20...	150	7.0	92	1.3	2.0	400	--
JUL							
10...	140	7.6	140	1.0	3.1	380	--

TABLE 3. WATER-QUALITY DATA FOR FIELD MEASUREMENTS AND MAJOR CONSTITUENTS -CONTINUED

DATE	TIME	TEMPER- ATURE, WATER (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	COLOR (PLAT- INUM COBALT UNITS) (00080)	ALKA- LITY (MG/L AS CAC03) (00410)	BICAR- BONATE (MG/L AS HC03) (00440)
275227082401911 - PINCOLF M 1 NE NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 19)								
JUL , 1980								
10...	1055	26.2	995	6.7	70	--	--	--
275227082401912 - PINCOLF M 2 NE NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 19)								
JUL , 1980								
10...	1135	25.3	1440	6.7	120	--	--	--
275227082401913 - PINCOLF M 3 NE NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 19)								
APR , 1979								
11...	0905	25.0	890	7.0	79	20	273	333
JUL , 1980								
10...	1150	24.5	1400	6.9	180	--	--	--
275227082401914 - PINCOLF M 4 NE NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 19)								
APR , 1979								
11...	0845	25.0	720	7.2	14	5	338	412
JUL , 1980								
10...	1200	24.0	1050	7.0	100	--	--	--

TABLE 3. WATER-QUALITY DATA FOR FIELD MEASUREMENTS AND MAJOR CONSTITUENTS -CONTINUED

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM AD- SORP- TION RATIO (00931)	HARD- NESS (MG/L AS CAC03) (00900)	HARD- NESS, NONCAR- BONATE (MG/L CAC03) (00902)
275227082401911 - PINCOLF M 1 NE NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 19)							
JUL , 1980 10...	150	13	63	5.4	1.3	430	--
275227082401912 - PINCOLF M 2 NE NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 19)							
JUL , 1980 10...	190	32	140	1.0	2.5	610	--
275227082401913 - PINCOLF M 3 NE NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 19)							
APR , 1979 11...	130	10	30	1.1	.7	370	94
JUL , 1980 10...	160	15	150	1.4	3.0	460	--
275227082401914 - PINCOLF M 4 NE NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 19)							
APR , 1979 11...	71	5.0	86	.9	2.7	200	0
JUL , 1980 10...	110	15	130	1.1	3.1	340	--

TABLE 3. WATER-QUALITY DATA FOR FIELD MEASUREMENTS AND MAJOR CONSTITUENTS -CONTINUED

DATE	TIME	TEMPER- ATURE, WATER (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	COLOR (PLAT- INUM COBALT UNITS) (00080)	ALKA- LITY (MG/L AS CAC03) (00410)	BICAR- BONATE (MG/L AS HC03) (00440)
275227082402031 - PINCOLF N 1 NE NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 20)								
MAY , 1980								
21...	1645	31.0	1440	7.2	140	--	--	--
JUL								
10...	1325	26.5	1610	6.7	180	--	--	--
275227082402032 - PINCOLF N 2 NE NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 20)								
MAY , 1980								
21...	0840	25.0	1550	7.0	100	--	--	--
JUL								
10...	1350	26.0	1240	6.9	120	--	--	--
275227082402033 - PINCOLF N 3 NE NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 20)								
MAY , 1980								
21...	0855	25.0	1930	7.2	290	--	--	--
JUL								
16...	1400	25.2	1160	6.6	110	--	--	--
275227082402034 - PINCOLF N 4 NE NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 20)								
MAY , 1980								
21...	0910	24.0	1750	7.2	180	--	--	--
JUL								
10...	1415	25.0	1230	6.7	120	--	--	--
275226082402001 - PINCOLF 0 1 E NR PINELLAS PARK (LAT 27 52 26 LONG 082 40 20)								
AUG , 1979								
15...	1515	28.3	1275	6.6	80	--	--	--
SEP								
06...	1000	30.0	1070	6.8	40	--	--	--
27...	1115	29.0	875	--	38	--	--	--
DEC								
13...	1245	21.9	1175	6.7	86	--	--	--
JAN , 1980								
03...	1225	18.9	980	6.7	94	--	--	--
MAY								
20...	1211	34.5	1330	7.7	110	--	--	--
JUL								
09...	1400	28.5	960	6.8	110	--	--	--

TABLE 3. WATER-QUALITY DATA FOR FIELD MEASUREMENTS AND MAJOR CONSTITUENTS -CONTINUED

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM AD- SORP- TION RATIO (00931)	HARD- NESS (MG/L AS CAC03) (00900)	HARD- NESS, NONCAR- BONATE (MG/L CAC03) (00902)
275227082402031 - PINCOLF N 1 NE NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 20)							
MAY , 1980							
21...	110	15	210	1.7	5.0	340	--
JUL							
10...	97	18	270	1.3	6.6	320	--
275227082402032 - PINCOLF N 2 NE NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 20)							
MAY , 1980							
21...	80	11	280	.9	7.8	250	--
JUL							
10...	62	8.2	230	.5	7.3	190	--
275227082402033 - PINCOLF N 3 NE NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 20)							
MAY , 1980							
21...	120	19	300	1.1	6.7	380	--
JUL							
10...	85	7.6	220	.8	6.1	240	--
275227082402034 - PINCOLF N 4 NE NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 20)							
MAY , 1980							
21...	150	12	230	1.3	4.9	420	--
JUL							
10...	87	6.4	200	9.0	5.6	240	--
275226082402001 - PINCOLF O 1 E NR PINELLAS PARK (LAT 27 52 26 LONG 082 40 20)							
AUG , 1979							
15...	150	17	92	1.1	1.9	440	440
SEP							
06...	140	15	72	1.0	1.5	410	--
27...	130	14	39	.9	.9	380	--
DEC							
13...	E130	E14	56	.6	--	--	--
JAN , 1980							
03...	130	10	63	.7	1.4	370	--
MAY							
20...	150	13	110	3.2	2.3	430	--
JUL							
09...	160	10	77	4.7	1.6	440	--

TABLE 3. WATER-QUALITY DATA FOR FIELD MEASUREMENTS AND MAJOR CONSTITUENTS -CONTINUED

DATE	TIME	TEMPER- ATURE, WATER (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	COLOR (PLAT- INUM COBALT UNITS) (00080)	ALKA- LITY (MG/L AS CAC03) (00410)	BICAR- BONATE (MG/L AS HC03) (00440)
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275226082402002 - PINCOLF 0 2 E NR PINELLAS PARK (LAT 27 52 26 LONG 082 40 20)

AUG , 1979								
15...	1525	27.5	1325	6.4	140	--	--	--
SEP								
06...	1015	28.0	1400	6.6	130	--	--	--
27...	1120	28.0	1250	--	75	--	--	--
DEC								
13...	1314	22.8	1160	6.9	120	--	--	--
JAN , 1980								
03...	1241	19.8	1025	7.0	94	--	--	--
MAY								
20...	1245	30.5	1220	6.8	94	--	--	--
JUL								
05...	1445	26.5	910	6.8	110	--	--	--

275226082402003 - PINCOLF 0 3 E NR PINELLAS PARK (LAT 27 52 26 LONG 082 40 20)

JUN , 1979								
07...	0900	28.0	1650	6.9	--	--	--	--
07...	1415	29.0	1670	6.5	150	--	--	--
JUL								
17...	1200	31.0	1620	6.4	150	--	--	--
AUG								
15...	1535	27.0	1600	6.4	150	--	--	--
SEP								
06...	1025	28.0	1820	6.7	150	--	--	--
27...	1125	27.5	1600	--	160	--	--	--
NOV								
15...	1015	24.1	1370	6.7	210	--	--	--
DEC								
13...	1324	22.5	1100	7.0	110	--	--	--
JAN , 1980								
03...	1250	19.5	980	7.0	120	--	--	--
FEB								
26...	1105	18.0	910	7.4	130	--	--	--
APR								
15...	1130	24.5	850	7.9	98	--	--	--
MAY								
20...	1300	29.5	1020	7.1	82	--	--	--
JUL								
09...	1515	27.5	780	7.2	120	--	--	--

TABLE 3. WATER-QUALITY DATA FOR FIELD MEASUREMENTS AND MAJOR CONSTITUENTS -CONTINUED

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM AD- SORP- TION RATIO (00931)	HARD- NESS (MG/L AS CAC03) (00900)	HARD- NESS, NONCAR- BONATE (MG/L CAC03) (00902)
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275226082402002 - PINCOLF 0 2 E NR PINELLAS PARK (LAT 27 52 26 LONG 082 40 20)

AUG , 1979							
15...	160	15	86	.5	1.7	460	460
SEP							
06...	150	14	86	.5	1.8	430	--
27...	140	13	75	.5	1.6	400	--
DEC							
13...	E130	E12	82	.4	--	--	--
JAN , 1980							
03...	130	11	77	.4	1.7	370	--
MAY							
20...	150	14	70	1.3	1.5	430	--
JUL							
05...	140	12	80	1.2	1.7	400	--

275226082402003 - PINCOLF 0 3 E NR PINELLAS PARK (LAT 27 52 26 LONG 082 40 20)

JUN , 1979							
07...	240	22	91	.6	1.5	690	--
JUL							
17...	210	21	96	.6	1.7	610	610
AUG							
15...	210	21	91	.6	1.6	610	610
SEP							
06...	220	21	94	.5	1.6	640	--
27...	200	22	94	.6	1.7	590	--
NOV							
15...	160	17	110	.5	2.2	470	--
DEC							
13...	E130	E13	80	.4	--	--	--
JAN , 1980							
03...	110	11	67	.4	1.6	320	--
FEH							
26...	100	10	71	.3	1.8	290	--
APR							
15...	90	8.0	80	.5	2.2	260	--
MAY							
20...	95	9.0	100	.8	2.6	270	--
JUL							
09...	150	13	120	>.5	2.5	430	--

TABLE 3. WATER-QUALITY DATA FOR FIELD MEASUREMENTS AND MAJOR CONSTITUENTS -CONTINUED

DATE	TIME	TEMPER- ATURE, WATER (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	COLOR (PLAT- INUM COBALT UNITS) (00080)	ALKA- LITY (MG/L AS CAC03) (00410)	BICAR- BONATE (MG/L AS HC03) (00440)
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275226082402004 - PINCOLF 0 4 E NR PINELLAS PARK (LAT 27 52 26 LONG 082 40 20)

AUG , 1979								
15...	1545	27.5	1540	6.6	200	--	--	--
SEP								
06...	1040	28.0	1800	6.7	200	--	--	--
27...	1130	27.0	1500	--	200	--	--	--
DEC								
13...	1334	23.4	1150	7.0	190	--	--	--
JAN , 1980								
03...	1310	20.4	1075	7.6	140	--	--	--
MAY								
20...	1310	28.0	1100	7.1	94	--	--	--
JUL								
05...	1530	26.0	870	6.9	110	--	--	--

275226082401901 - PINCOLF P 1 E NR PINELLAS PARK (LAT 27 52 26 LONG 082 40 19)

JUL , 1980								
10...	0930	28.0	1275	6.4	120	--	--	--

275226082401902 - PINCOLF P 2 E NR PINELLAS PARK (LAT 27 52 26 LONG 082 40 19)

MAY , 1980								
20...	1400	32.0	1060	7.0	82	--	--	--
JUL								
10...	1010	26.5	1020	6.8	120	--	--	--

275226082401903 - PINCOLF P 3 E NR PINELLAS PARK (LAT 27 52 26 LONG 082 40 19)

MAY , 1980								
20...	1430	28.0	1050	6.9	84	--	--	--
JUL								
10...	1020	26.2	1005	6.7	120	--	--	--

275226082401904 - PINCOLF P 4 E NR PINELLAS PARK (LAT 27 52 26 LONG 082 40 19)

MAY , 1980								
20...	1445	33.0	1100	7.0	82	--	--	--
JUL								
10...	1030	24.5	1035	6.7	110	--	--	--

TABLE 3. WATER-QUALITY DATA FOR FIELD MEASUREMENTS AND MAJOR CONSTITUENTS -CONTINUED

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM AD- SORP- TION RATIO (00931)	HARD- NESS (MG/L AS CAC03) (00900)	HARD- NESS, NONCAR- BONATE (MG/L CAC03) (00902)
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275226082402004 - PINCOLF 0 4 E NR PINELLAS PARK (LAT 27 52 26 LONG 082 40 20)

AUG , 1979							
15...	160	14	130	.8	2.6	460	460
SEP							
06...	180	15	120	.8	2.3	510	--
27...	150	14	130	.9	2.7	430	--
DEC							
13...	E120	E11	120	.8	--	--	--
JAN , 1980							
03...	110	10	97	.7	2.4	320	--
MAY							
20...	110	9.0	120	1.4	3.0	310	--
JUL							
05...	110	9.8	110	.8	2.7	320	--

275226082401901 - PINCOLF P 1 E NR PINELLAS PARK (LAT 27 52 26 LONG 082 40 19)

JUL , 1980							
10...	190	5.7	83	1.0	1.6	500	--

275226082401902 - PINCOLF P 2 E NR PINELLAS PARK (LAT 27 52 26 LONG 082 40 19)

MAY , 1980							
20...	130	11	75	1.5	1.7	370	--
JUL							
10...	130	11	80	1.1	1.8	370	--

275226082401903 - PINCOLF P 3 E NR PINELLAS PARK (LAT 27 52 26 LONG 082 40 19)

MAY , 1980							
20...	130	11	73	1.6	1.7	370	--
JUL							
10...	130	12	85	1.1	1.9	370	--

275226082401904 - PINCOLF P 4 E NR PINELLAS PARK (LAT 27 52 26 LONG 082 40 19)

MAY , 1980							
20...	140	12	62	1.5	1.4	400	--
JUL							
10...	150	12	66	1.2	1.4	420	--

TABLE 3. WATER-QUALITY DATA FOR FIELD MEASUREMENTS AND MAJOR CONSTITUENTS -CONTINUED

DATE	TIME	TEMPER- ATURE, WATER (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	COLOR (PLAT- INUM COBALT UNITS) (00080)	ALKA- LITY (MG/L AS CAC03) (00410)	BICAR- BONATE (MG/L AS HC03) (00440)
275228082401905 - T1 NR PINELLAS PARK (LAT 27 52 28 LONG 082 40 19)								
JUL , 1980								
14...	0900	27.0	1480	6.6	240	--	--	--
275228082401906 - T2 NR PINELLAS PARK (LAT 27 52 28 LONG 082 40 19)								
MAY , 1980								
21...	1550	32.5	1430	7.5	150	--	--	--
JUL								
14...	0930	26.5	1330	6.9	180	--	--	--
275228082401907 - T3 NR PINELLAS PARK (LAT 27 52 28 LONG 082 40 19)								
JUL , 1980								
14...	0940	26.1	1550	6.8	300	--	--	--
275210082411601 - PINELLAS CO. LF 18 (LAT 27 52 10 LONG 082 41 16)								
JUN , 1979								
05...	0930	29.0	1620	7.1	240	--	--	--
SEP								
21...	1450	25.0	800	--	63	--	--	--
27...	1450	25.0	800	--	--	--	--	--
NOV								
15...	0945	23.6	1500	7.0	210	--	--	--
FEB , 1980								
25...	1045	21.5	1390	7.1	190	--	--	--
APR								
15...	0815	22.5	1300	7.7	180	--	--	--
275228082402001 - PINCOLF RAW LEACHATE FROM CELL NR PINELLAS PARK (LAT 27 52 28 LONG 082 40 20)								
JUL , 1979								
18...	0915	29.0	3550	6.2	--	--	--	--
NOV								
15...	1150	19.0	1010	7.1	74	--	--	--
DEC								
13...	1127	22.2	--	6.6	--	--	--	--
JAN , 1980								
02...	1104	15.0	1450	7.5	120	--	--	--
JUL								
07...	1000	28.0	1240	6.8	130	--	--	--

TABLE 3. WATER-QUALITY DATA FOR FIELD MEASUREMENTS AND MAJOR CONSTITUENTS -CONTINUED

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM AD- SORP- TION RATIO (00931)	HARD- NESS (MG/L AS CAC03) (00900)	HARD- NESS, NONCAR- BONATE (MG/L CAC03) (00902)
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275228082401905 - T1 NR PINELLAS PARK (LAT 27 52 28 LONG 082 40 19)

JUL , 1980							
14...	140	13	180	2.4	3.9	400	--

275228082401906 - T2 NR PINELLAS PARK (LAT 27 52 28 LONG 082 40 19)

MAY , 1980							
21...	130	11	170	3.0	3.8	370	--
JUL							
14...	100	8.8	200	1.5	5.1	290	--

275228082401907 - T3 NR PINELLAS PARK (LAT 27 52 28 LONG 082 40 19)

JUL , 1980							
14...	170	9.8	180	1.3	3.6	470	--

275210082411601 - PINELLAS CO. LF 18 (LAT 27 52 10 LONG 082 41 16)

JUN , 1979							
05...	140	15	200	1.0	4.3	410	--
SEP							
27...	94	3.6	34	1.0	.9	250	--
NOV							
15...	130	15	180	1.0	4.0	390	--
FEB , 1980							
25...	130	15	180	1.2	4.0	390	--
APR							
15...	140	14	160	1.2	3.5	410	--

275228082402001 - PINCOLF RAW LEACHATE FROM CELL NR PINELLAS PARK (LAT 27 52 28 LONG 082 40 20)

JUL , 1979							
18...	380	40	160	130	2.1	1100	1100
NOV							
15...	160	7.1	53	2.2	1.1	430	--
JAN , 1980							
02...	200	17	94	10	1.7	570	--
JUL							
07...	150	17	86	25	1.8	440	--

TABLE 3. WATER-QUALITY DATA FOR FIELD MEASUREMENTS AND MAJOR CONSTITUENTS -CONTINUED

DATE	TIME	TEMPER- ATURE, WATER (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	COLOR (PLAT- INUM COBALT UNITS) (00080)	ALKA- LITY (MG/L AS CACO3) (00410)	BICAR- BONATE (MG/L AS HCO3) (00440)
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275228082402000 - PINCOLF AER PND NR PINELLAS PARK (LAT 27 52 28 LONG 082 40 20)

APR , 1979								
05...	1413	--	--	--	94	--	--	--
05...	1430	25.0	970	8.4	200	0	116	142
JUN								
04...	1017	29.0	500	9.3	--	--	--	--
05...	1230	32.0	500	9.3	97	--	--	--
JUL								
16...	1200	31.0	430	8.9	100	--	--	--
20...	0850	30.0	2700	7.5	120	--	--	--
DEC								
13...	1127	--	--	--	120	--	--	--
14...	0914	22.7	1150	6.9	100	--	--	--
JAN , 1980								
02...	1020	14.5	1150	7.0	120	--	--	--
JUL								
07...	1030	27.5	1060	7.9	130	--	--	--

275227082402000 - PINCOLF OXD PND N NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 20)

MAR , 1979								
28...	1130	22.5	990	7.5	200	10	93	113
JUN								
04...	1010	30.5	550	8.6	--	--	--	--
04...	1100	29.0	490	7.9	--	--	--	--
05...	1245	32.0	560	8.8	120	--	--	--
05...	1315	30.5	480	8.0	81	--	--	--
JUL								
16...	1230	31.0	600	8.9	140	--	--	--
AUG								
15...	1220	28.0	1300	6.9	160	--	--	--
30...	1215	30.5	1450	7.7	170	--	--	--
SEP								
06...	1330	30.5	1520	7.4	180	--	--	--
27...	1250	27.5	1250	--	150	--	--	--
OCT								
18...	1305	27.5	950	7.1	130	--	--	--
NOV								
15...	1100	20.1	810	7.4	100	--	--	--
DEC								
14...	1242	22.8	--	7.6	80	--	--	--
JAN , 1980								
02...	1054	16.0	1275	7.2	130	--	--	--
FEB								
25...	1230	22.0	1160	7.7	120	--	--	--
APR								
15...	0925	21.0	950	7.4	120	--	--	--
MAY								
21...	0950	30.0	850	7.6	79	--	--	--
JUL								
07...	1115	29.0	850	7.2	120	--	--	--

TABLE 3. WATER-QUALITY DATA FOR FIELD MEASUREMENTS AND MAJOR CONSTITUENTS -CONTINUED

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM AD- SORP- TION RATIO (00931)	HARD- NESS (MG/L AS CAC03) (00900)	HARD- NESS, NONCAR- BONATE (MG/L CAC03) (00902)
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275228082402000 - PINCOLF AER PND NR PINELLAS PARK (LAT 27 52 28 LONG 082 40 20)

APR , 1979							
05...	54	10	120	2.6	3.9	180	60
JUN							
05...	23	4.1	56	2.3	2.8	74	74
JUL							
16...	24	4.1	59	3.1	2.9	77	77
20...	270	30	140	100	2.2	800	800
DEC							
14...	E180	E11	75	16	--	--	--
JAN , 1980							
02...	170	18	98	9.7	1.9	500	--
JUL							
07...	120	17	83	28	1.9	370	--

275227082402000 - PINCOLF OXD PND N NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 20)

MAR , 1979							
28...	50	10	120	.8	4.1	170	74
JUN							
05...	26	5.7	66	.1	3.1	88	88
05...	38	5.2	43	.1	1.7	120	--
JUL							
16...	24	5.6	88	.1	4.2	83	83
AUG							
15...	88	19	100	61	2.5	300	300
30...	57	27	130	120	3.6	250	250
SEP							
06...	61	27	120	100	3.2	260	--
27...	35	22	110	100	3.6	180	--
OCT							
18...	40	15	79	50	2.7	160	--
NOV							
15...	62	10	70	20	2.2	200	--
DEC							
14...	130	E9.7	67	8.6	--	--	--
JAN , 1980							
02...	210	14	80	24	1.4	580	--
FEB							
25...	130	16	92	28	2.0	390	--
APR							
15...	88	14	84	28	2.2	280	--
MAY							
21...	88	13	69	12	1.8	270	--
JUL							
07...	110	14	74	14	1.8	330	--

TABLE 3. WATER-QUALITY DATA FOR FIELD MEASUREMENTS AND MAJOR CONSTITUENTS -CONTINUED

DATE	TIME	TEMPER- ATURE, WATER (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	COLOR (PLAT- INUM COBALT UNITS) (00080)	ALKA- LINITY (MG/L AS CAC03) (00410)	BICAR- BONATE (MG/L AS HC03) (00440)
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275225082402000 - PINCOLF OXD PND S NR PINELLAS PARK (LAT 27 52 25 LONG 082 40 20)

APR , 1979

11... 0815 26.0 740 8.1 150 5 113 138

OCT 18... 1410 28.5 550 7.5 77 -- -- --

NOV 15... 1045 19.0 570 7.4 84 -- -- --

DEC 13... 1210 24.1 -- 7.8 83 -- -- --

JAN , 1980 03... 1000 20.0 1050 7.8 100 -- -- --

FEB 25... 1140 20.5 960 7.5 100 -- -- --

APR 15... 0900 21.5 800 7.5 96 -- -- --

MAY 21... 0930 29.0 810 7.4 82 -- -- --

JUL 07... 1130 29.0 610 7.4 120 -- -- --

275228082401900 - CSW 25 NR PINELLAS PARK (LAT 27 52 28 LONG 082 40 19)

MAY , 1980

21... 1535 -- 760 -- -- -- -- --

275231082401900 - PINELLAS CO. LF DITCH "A" SW 26 (LAT 27 52 31 LONG 082 40 19)

JAN , 1979

23... 1030 16.5 785 7.4 89 -- -- --

APR 05... 1515 26.0 670 8.1 94 -- -- --

JUL 12... 1345 32.0 1330 7.4 120 -- -- --

SEP 27... 1200 27.5 400 -- 68 -- -- --

OCT 18... 1205 27.5 700 6.6 70 -- -- --

FEB , 1980 14... 0930 24.0 670 6.8 86 -- -- --

TABLE 3. WATER-QUALITY DATA FOR FIELD MEASUREMENTS AND MAJOR CONSTITUENTS -CONTINUED

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM AD- SORP- TION RATIO (00931)	HARD- NESS (MG/L AS CAC03) (00900)	HARD- NESS, NONCAR- BONATE (MG/L CAC03) (00902)
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275225082402000 - PINCOLF OXD PND S NR PINELLAS PARK (LAT 27 52 25 LONG 082 40 20)

APR , 1979							
11...	50	9.0	82	.1	2.8	160	47
OCT							
18...	50	5.9	46	2.8	1.6	150	--
NOV							
15...	51	7.2	54	2.3	1.9	160	--
JAN , 1980							
03...	130	11	67	14	1.5	370	--
FEB							
25...	120	12	75	3.9	1.7	350	--
APR							
15...	78	10	68	15	1.9	240	--
MAY							
21...	69	11	76	13	2.2	220	--
JUL							
07...	65	12	76	9.8	2.3	210	--

275231082401900 - PINELLAS CO. LF DITCH "A" SW 26 (LAT 27 52 31 LONG 082 40 19)

JAN , 1979							
23...	86	13	56	3.0	1.5	270	--
APR							
05...	68	12	10	.5	.3	220	--
SEP							
27...	49	4.3	19	1.5	.7	140	--
OCT							
18...	98	9.0	40	1.0	1.0	280	--
FEB , 1980							
14...	82	9.6	48	2.7	1.3	240	--

TABLE 4. WATER-QUALITY DATA FOR NITROGEN AND PHOSPHORUS SPECIES AND CHEMICAL OXYGEN DEMAND

(SAMPLE LOCATION DESCRIPTOR: ID NUMBER; SITE NAME; WELL CLUSTER LETTER AND NUMBER OR SURFACE-WATER LETTER AND/OR NUMBER; LOCATION DESCRIPTOR; LATITUDE AND LONGITUDE)

DATE	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, TOTAL (MG/L AS NO3) (71887)	PHOS- PHORUS, ORTHO. TOTAL (MG/L AS P) (70507)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L) (00340)
275226082402101 - PINCOLF A 1 NPND NR PINELLAS PARK (LAT 27 52 26 LONG 082 40 21)								
JUL , 1980 07...	1.7	3.3	.01	.01	22	.43	.540	62
275226082402102 - PINCOLF A 2 NPND NR PINELLAS PARK (LAT 27 52 26 LONG 082 40 21)								
JUL , 1980 07...	.64	4.0	.01	.00	21	.25	.300	46
275226082402103 - PINCOLF A 3 NPND NR PINELLAS PARK (LAT 27 52 26 LONG 082 40 21)								
JUL , 1980 07...	.66	3.6	.01	.00	19	.27	.270	40
275226082402104 - PINCOLF A 4 NPND NR PINELLAS PARK (LAT 27 52 26 LONG 082 40 21)								
JUL , 1980 07...	1.5	3.3	.01	.00	21	.26	.270	40
275226082402111 - PINCOLF B 1 SPND NR PINELLAS PARK (LAT 27 52 26 LONG 082 40 21)								
AUG , 1979 15...	6.7	4.1	.01	.00	48	.02	.740	96
30...	2.2	.01	.01	1.6	17	.02	.200	60
SEP 06...	2.6	1.6	.35	.41	22	.01	.200	30
27...	.95	.38	.01	1.4	12	.01	.140	40
OCT 18...	5.9	3.2	.01	.00	40	.02	.580	20
DEC 14...	--	--	--	--	--	--	--	65
JAN , 1980 03...	1.4	.75	.00	.00	9.5	.02	.120	59
MAY 21...	2.0	1.0	.02	1.4	20	--	--	82
JUL 08...	.79	1.2	.01	.00	8.9	.01	.100	42

TABLE 4. WATER-QUALITY DATA FOR NITROGEN AND PHOSPHORUS SPECIES AND CHEMICAL OXYGEN DEMAND-CONTINUED

DATE	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, TOTAL (MG/L AS NO3) (71887)	PHOS- PHORUS, ORTHO. TOTAL (MG/L AS P) (70507)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L) (00340)
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275226082402112 - PINCOLF B 2 SPND NR PINELLAS PARK (LAT 27 52 26 LONG 082 40 21)

AUG , 1979								
15...	1.2	1.3	.00	.01	11	.01	.070	25
30...	.95	.45	.01	.02	6.3	.00	.130	75
SEP								
06...	.96	.22	.01	.14	5.9	.00	.060	30
27...	.52	.25	.00	.01	3.5	.01	.070	0
OCT								
18...	.80	.32	.01	.04	5.2	.00	.030	20
DEC								
14...	--	--	--	--	--	--	--	45
JAN , 1980								
03...	6.8	1.6	.01	.13	38	.03	.770	140
MAY								
21...	.82	.46	.02	.43	7.7	--	--	64
JUL								
08...	.65	.13	.01	.00	3.5	.00	.040	54

275226082402113 - PINCOLF B 3 SPND NR PINELLAS PARK (LAT 27 52 26 LONG 082 40 21)

AUG , 1979								
15...	.85	.55	.00	.00	6.2	.01	.050	20
30...	.72	.20	.00	.00	4.1	.00	.060	45
SEP								
06...	.82	.16	.00	.01	4.4	.00	.050	85
27...	.55	.12	.00	.00	3.0	.01	.040	0
OCT								
18...	.25	.20	.00	.14	2.6	.00	.020	0
DEC								
14...	--	--	--	--	--	--	--	41
JAN , 1980								
03...	1.2	.26	.01	.00	6.5	.01	.060	54
MAY								
21...	.58	.14	.01	.19	4.1	--	--	46
JUL								
08...	.87	.09	.01	.00	4.3	.01	.040	30

TABLE 4. WATER-QUALITY DATA FOR NITROGEN AND PHOSPHORUS SPECIES AND CHEMICAL OXYGEN DEMAND-CONTINUED

DATE	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, TOTAL (MG/L AS NO3) (71887)	PHOS- PHORUS, OPHOS- TOTAL (MG/L AS P) (70507)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L) (00340)
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275226082402114 - PINCOLF B 4 SPND NR PINELLAS PARK (LAT 27 52 26 LONG 082 40 21)

AUG , 1979								
15...	.65	.45	.00	.00	4.9	.01	.110	30
30...	.80	.12	.00	.01	4.1	.01	.100	35
SEP								
06...	.98	.10	.00	.01	4.8	.01	.120	30
27...	.59	.18	.01	.01	3.5	.01	.070	20
DEC								
14...	--	--	--	--	--	--	--	39
JAN , 1980								
03...	1.1	1.8	.02	.00	13	.03	.120	43
MAY								
21...	.71	.17	.03	.08	4.4	--	--	54
JUL								
08...	.57	.09	.01	.00	3.0	.03	.130	34

275227082402001 - PINCOLF C 1 NPND NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 20)

MAR , 1979								
28...	4.0	1.8	.01	.00	26	.01	.030	41
AUG								
15...	2.0	3.4	.01	.00	24	.02	.080	96
30...	4.2	3.3	.01	.00	33	.01	.040	35
SEP								
06...	1.4	.04	.00	.00	6.4	.03	.290	25
27...	3.0	4.2	.00	.00	32	.01	.060	130
OCT								
18...	.65	.01	.00	.00	2.9	.02	.120	10
JAN , 1980								
02...	4.6	4.0	.01	.01	38	.01	.060	51
MAY								
21...	1.0	6.4	.00	.02	33	--	--	88
JUL								
08...	1.1	7.2	.07	.01	37	.02	.030	50

TABLE 4. WATER-QUALITY DATA FOR NITROGEN AND PHOSPHORUS SPECIES AND CHEMICAL OXYGEN DEMAND-CONTINUED

DATE	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, TOTAL (MG/L AS NO3) (71887)	PHOS- PHORUS, ORTHO. TOTAL (MG/L AS P) (70507)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L) (00340)
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275227082402002 - PINCOLF C 2 NPND NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 20)

MAR , 1979								
28...	1.2	1.6	.01	.00	13	.01	.120	13
AUG								
15...	1.5	.98	.00	.00	--	.03	.170	50
30...	1.4	.88	.00	.00	10	.02	.070	100
SEP								
06...	2.2	.01	.01	.00	9.8	.03	.120	220
27...	2.0	.28	.01	.00	10	.01	.070	6
OCT								
18...	.92	.01	.00	.00	4.1	.04	.160	5
JAN , 1980								
02...	1.2	1.6	.00	.01	12	.05	.080	39
MAY								
21...	.96	3.0	.01	.00	18	--	--	68
JUL								
08...	.50	5.3	.00	.01	26	.02	.100	46

275227082402003 - PINCOLF C 3 NPND NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 20)

MAR , 1979								
28...	1.1	.12	.01	.00	--	.01	.250	13
JUN								
07...	1.4	.11	.00	.00	6.7	.03	.200	40
JUL								
17...	.97	.08	.01	.00	4.7	.08	.180	44
AUG								
15...	1.0	.08	.00	.00	4.8	.02	.430	35
30...	.77	.77	.00	.01	6.87	.06	.230	15
SEP								
06...	.98	--	.00	.00	--	.02	.250	63
27...	.99	.01	.00	.00	4.4	.07	.170	23
OCT								
18...	1.4	1.0	.00	.00	11	.02	.060	10
NOV								
15...	4.1	.11	.01	.00	19	.01	.270	35
JAN , 1980								
02...	1.3	.08	.00	.02	6.2	.07	.210	44
FEB								
26...	.56	1.6	.01	.00	9.6	.08	.090	23
APR								
15...	.87	1.6	.01	.01	11	.08	.140	48
MAY								
21...	.77	.49	.01	.00	5.6	--	--	66
JUL								
08...	.99	.11	.01	.00	4.9	.00	.250	36

TABLE 4. WATER-QUALITY DATA FOR NITROGEN AND PHOSPHORUS SPECIES AND CHEMICAL OXYGEN DEMAND-CONTINUED

DATE	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, TOTAL (MG/L AS NO3) (71887)	PHOS- PHORUS, ORTHO. TOTAL (MG/L AS P) (70507)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L) (00340)
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275227082402004 - PINCOLF C 4 NPND NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 20)

MAR , 1979								
28...	.85	.15	.01	.00	4.5	.02	.230	0
AUG								
15...	1.4	.12	.00	.00	6.7	.02	.290	35
30...	.82	.10	.01	.00	4.1	.05	.270	45
SEP								
06...	5.8	1.4	.00	.00	41	.01	.030	120
27...	1.0	.02	.00	.00	4.5	.04	.170	45
OCT								
18...	3.1	4.9	.00	.01	35	.00	.020	60
JAN , 1980								
02...	1.4	.08	.00	.02	6.6	.03	.400	52
MAY								
21...	.70	.10	.01	.00	3.6	--	--	60
JUL								
08...	.79	.13	.01	.00	4.1	.00	.280	40

275227082402011 - PINCOLF D 1 NPND NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 20)

DEC , 1979								
14...	--	--	--	--	--	--	--	36
JAN , 1980								
02...	2.4	2.2	.02	.03	21	.08	.120	130
JUL								
09...	.72	4.0	.01	.01	21	.17	.190	50

TABLE 4. WATER-QUALITY DATA FOR NITROGEN AND PHOSPHORUS SPECIES AND CHEMICAL
OXYGEN DEMAND-CONTINUED

DATE	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, TOTAL (MG/L AS NO3) (71887)	PHOS- PHORUS, ORTHO. TOTAL (MG/L AS P) (70507)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L) (00340)
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275227082402012 - PINCOLF D 2 NPND NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 20)

DEC , 1979								
14...	--	--	--	--	--	--	--	45
JAN , 1980								
02...	2.0	1.9	.01	.00	17	.02	.080	96
JUL								
08...	1.1	3.6	.00	.01	21	.10	.120	42

275227082402013 - PINCOLF D 3 NPND NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 20)

DEC , 1979								
14...	--	--	--	--	--	--	--	32
JAN , 1980								
02...	1.4	1.9	.00	.00	15	.01	.070	63
JUL								
08...	.48	3.7	.00	.01	19	.03	.040	40

275227082402014 - PINCOLF D 4 NPND NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 20)

DEC , 1979								
14...	--	--	--	--	--	--	--	36
JAN , 1980								
02...	1.5	3.4	.01	.00	22	.07	.300	48
JUL								
08...	.34	4.3	.01	.00	21	.04	.160	38

275227082402015 - PINCOLF D 5 NPND NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 20)

JAN , 1980								
02...	1.1	1.5	.01	.00	12	.04	.490	44
JUL								
08...	.18	2.9	.00	.01	14	.04	.180	40

TABLE 4. WATER-QUALITY DATA FOR NITROGEN AND PHOSPHORUS SPECIES AND CHEMICAL OXYGEN DEMAND-CONTINUED

DATE	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, TOTAL (MG/L AS NO3) (71887)	PHOS- PHORUS, ORTHO. TOTAL (MG/L AS P) (70507)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L) (00340)
275227082402201 - PINCOLF F 1 NPND NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 22)								
JAN , 1980 02....	5.1	3.4	.02	.13	38	.16	.250	200
275227082402202 - PINCOLF F 2 NPND NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 22)								
JAN , 1980 02....	5.0	4.0	.02	.02	40	.18	.180	170
275227082402203 - PINCOLF F 3 NPND NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 22)								
JAN , 1980 02....	1.4	1.1	.00	.00	11	.01	.020	86
275227082402204 - PINCOLF F 4 NPND NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 22)								
JAN , 1980 02....	1.5	.55	.01	.01	9.2	.04	.100	71

TABLE 4. WATER-QUALITY DATA FOR NITROGEN AND PHOSPHORUS SPECIES AND CHEMICAL OXYGEN DEMAND-CONTINUED

DATE	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, TOTAL (MG/L AS NO3) (71887)	PHOS- PHORUS, ORTHO. TOTAL (MG/L AS P) (70507)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L) (00340)
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275227082402221 - PINCOLF H 1 W NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 22)

AUG , 1979								
15...	2.6	3.1	.01	.07	26	.12	.420	100
30...	.67	.38	.00	.01	4.7	.01	.020	35
SEP								
06...	.93	.45	.01	.00	6.2	.01	.010	50
27...	.70	.35	.00	.01	4.7	.01	.010	39
DEC								
13...	--	--	--	--	--	--	--	36
JAN , 1980								
03...	.70	.35	.00	.01	4.7	.00	.020	46
JUL								
09...	.36	1.0	.00	.00	6.0	.00	.010	110

275227082402222 - PINCOLF H 2 W NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 22)

AUG , 1979								
15...	1.0	.63	.01	.00	7.3	.09	.130	35
30...	.34	.68	.00	.00	4.5	.00	.030	25
SEP								
06...	.47	.68	.01	.00	5.1	.01	.050	60
27...	.52	.58	.00	.03	5.0	.01	.020	16
DEC								
13...	--	--	--	--	--	--	--	40
JAN , 1980								
03...	.35	.15	.01	.01	2.3	.01	.030	42
JUL								
09...	.34	.23	.00	.00	2.5	.00	.010	20

TABLE 4. WATER-QUALITY DATA FOR NITROGEN AND PHOSPHORUS SPECIES AND CHEMICAL OXYGEN DEMAND-CONTINUED

DATE	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, TOTAL (MG/L AS N03) (71887)	PHOS- PHORUS, ORTHO. TOTAL (MG/L AS P) (70507)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L) (00340)
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275227082402223 - PINCOLF H 3 W NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 22)

AUG , 1979								
15...	.66	1.2	.01	.00	8.3	.01	.020	30
30...	.27	.61	.00	.00	3.9	.00	.010	15
SEP								
06...	.65	.65	.00	.01	5.8	.00	.010	25
27...	.44	.66	.00	.00	4.9	.01	.020	26
DEC								
13...	--	--	--	--	--	--	--	34
JAN , 1980								
03...	.40	.10	.00	.01	2.3	.00	.020	39
JUL								
09...	.36	.04	.00	.00	1.8	.00	.040	20

275227082402224 - PINCOLF H 4 W NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 22)

AUG , 1979								
15...	.00	1.0	.00	.01	4.5	.01	.210	14
30...	.45	.05	.00	.00	2.2	.00	.040	5
SEP								
06...	.62	.06	.00	.01	3.1	.01	.010	20
27...	.35	.03	.00	.01	1.7	.01	.010	170
DEC								
13...	--	--	--	--	--	--	--	29
JAN , 1980								
03...	.31	.04	.01	.00	1.6	.01	.040	25
JUL								
09...	.41	.35	.00	.00	3.4	.00	.020	20

275227082402022 - PINCOLF I 2 NE NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 20)

MAY , 1980								
21...	.81	.19	.01	.04	4.6	--	--	86
JUL								
09...	.70	.14	.00	.00	3.7	.01	.030	28

TABLE 4. WATER-QUALITY DATA FOR NITROGEN AND PHOSPHORUS SPECIES AND CHEMICAL OXYGEN DEMAND-CONTINUED

DATE	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, TOTAL (MG/L AS N03) (71887)	PHOS- PHORUS, ORTHO. TOTAL (MG/L AS P) (70507)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L) (00340)
275227082402023 - PINCOLF I 3 NE NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 20)								
JUN , 1979								
07...	1.2	.02	.00	.01	5.4	.02	.080	45
JUL								
17...	.85	.00	.00	.01	3.8	.03	.100	9
NOV								
15...	.94	.04	.00	.00	4.3	.00	.070	7
FEB , 1980								
26...	.40	.13	.01	.04	2.6	.03	.070	22
APR								
15...	.53	.07	.00	.01	2.7	.01	.080	54
MAY								
21...	.46	.06	.01	.01	2.4	--	--	48
JUL								
09...	.52	.04	.00	.02	2.6	.00	.070	20
275227082402024 - PINCOLF I 4 NE NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 20)								
MAY , 1980								
21...	.60	.08	.00	.02	3.1	--	--	86
JUL								
09...	.55	.09	.00	.00	2.8	.00	.300	30
275228082401901 - PINCOLF L 1 NE NR PINELLAS PARK (LAT 27 52 28 LONG 082 40 19)								
JUL , 1980								
10...	1.0	1.0	.01	.05	9.1	.02	.050	67
275228082401902 - PINCOLF L 2 NE NR PINELLAS PARK (LAT 27 52 28 LONG 082 40 19)								
MAY , 1980								
20...	.56	.02	.00	.09	3.0	--	--	26
JUL								
10...	.64	.08	.00	.01	3.2	.00	.050	32
275228082401903 - PINCOLF L 3 NE NR PINELLAS PARK (LAT 27 52 28 LONG 082 40 19)								
MAY , 1980								
20...	.56	.08	.00	.12	3.4	--	--	50
JUL								
10...	2.0	.19	.00	.01	9.7	.00	.140	32
275228082401904 - PINCOLF L 4 NE NR PINELLAS PARK (LAT 27 52 28 LONG 082 40 19)								
MAY , 1980								
20...	.59	.03	.00	.13	3.3	--	--	40
JUL								
10...	.40	.28	.00	.00	3.0	.00	.220	34

TABLE 4. WATER-QUALITY DATA FOR NITROGEN AND PHOSPHORUS SPECIES AND CHEMICAL OXYGEN DEMAND-CONTINUED

DATE	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, TOTAL (MG/L AS NO3) (71887)	PHOS- PHORUS, ORTHO. TOTAL (MG/L AS P) (70507)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L) (00340)
275227082401911 - PINCOLF M 1 NE NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 19)								
JUL , 1980								
10...	1.0	.52	.01	.02	6.9	.01	.080	50
275227082401912 - PINCOLF M 2 NE NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 19)								
JUL , 1980								
10...	.60	.44	.00	.01	4.6	.00	.130	45
275227082401913 - PINCOLF M 3 NE NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 19)								
APR , 1979								
11...	.54	.01	.00	.01	2.5	.01	.080	200
JUL , 1980								
10...	.50	.38	.00	.01	3.9	.00	.160	40
275227082401914 - PINCOLF M 4 NE NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 19)								
APR , 1979								
11...	.22	.08	.00	.01	1.4	.01	.100	24
JUL , 1980								
10...	.35	.39	.00	.00	3.3	.00	.310	28

TABLE 4. WATER-QUALITY DATA FOR NITROGEN AND PHOSPHORUS SPECIES AND CHEMICAL OXYGEN DEMAND-CONTINUED

DATE	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, TOTAL (MG/L AS NO3) (71887)	PHOS- PHORUS, ORTHO. TOTAL (MG/L AS P) (70507)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L) (00340)
275227082402031 - PINCOLF N 1 NE NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 20)								
MAY , 1980								
21...	1.1	.80	.01	.05	8.7	--	--	60
JUL								
10...	1.2	.76	.01	.02	8.8	.10	.100	50
275227082402032 - PINCOLF N 2 NE NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 20)								
MAY , 1980								
21...	.56	.18	.01	.02	3.4	--	--	56
JUL								
10...	2.2	.18	.00	.00	11	.01	1.70	85
275227082402033 - PINCOLF N 3 NE NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 20)								
MAY , 1980								
21...	.50	.06	.00	.11	3.0	--	--	48
JUL								
16...	.65	.23	.00	.02	4.0	.01	.220	52
275227082402034 - PINCOLF N 4 NE NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 20)								
MAY , 1980								
21...	.35	.05	.00	.05	2.0	--	--	30
JUL								
10...	.54	.16	.00	.02	3.2	.01	.290	40
275226082402001 - PINCOLF O 1 E NR PINELLAS PARK (LAT 27 52 26 LONG 082 40 20)								
AUG , 1979								
15...	2.1	3.8	.01	.00	26	.01	.040	100
SEP								
06...	6.7	3.9	.01	.07	47	.01	.190	70
27...	1.0	3.0	.00	.01	18	.01	.030	10
DEC								
13...	--	--	--	--	--	--	--	43
JAN , 1980								
03...	3.0	1.4	.02	.00	20	.08	.180	61
MAY								
20...	1.4	1.7	.00	.02	14	--	--	270
JUL								
09...	.70	2.1	.00	.01	12	.01	.020	46

TABLE 4. WATER-QUALITY DATA FOR NITROGEN AND PHOSPHORUS SPECIES AND CHEMICAL
OXYGEN DEMAND-CONTINUED

DATE	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, TOTAL (MG/L AS NO3) (71887)	PHOS- PHORUS, ORTHO. TOTAL (MG/L AS P) (70507)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L) (00340)
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275226082402002 - PINCOLF 0 2 E NR PINELLAS PARK (LAT 27 52 26 LONG 082 40 20)

AUG , 1979								
15...	1.5	1.6	.00	.01	14	.01	.050	45
SFP								
06...	1.4	1.5	.01	.00	13	.01	.030	40
27...	1.0	1.6	.00	.00	12	.00	.020	6
DEC								
13...	--	--	--	--	--	--	--	30
JAN , 1980								
03...	1.2	1.0	.00	.01	9.8	.01	.010	44
MAY								
20...	1.1	1.4	.00	.04	11	--	--	54
JUL								
05...	.50	1.5	.00	.00	8.9	.00	.000	30

275226082402003 - PINCOLF 0 3 E NR PINELLAS PARK (LAT 27 52 26 LONG 082 40 20)

JUN , 1979								
07...	--	--	--	--	--	--	--	40
07...	1.0	.04	.00	.01	4.6	.01	.180	--
JUL								
17...	.72	.04	.00	.00	3.4	.00	.310	73
AUG								
15...	.97	.03	.00	.01	4.5	.01	.290	35
SEP								
06...	.67	.05	.00	.01	3.23	.01	.170	30
27...	.74	.04	.01	.00	3.5	.02	.210	23
NOV								
15...	.93	.07	.00	.01	4.5	.00	.100	13
DEC								
13...	--	--	--	--	--	--	--	25
JAN , 1980								
03...	.76	.02	.00	.01	3.5	.01	.040	35
FEB								
26...	.78	.05	.01	.00	3.7	.09	.220	25
APR								
15...	.80	.05	.01	.00	3.8	.06	.150	48
MAY								
20...	.91	.03	.01	.06	4.5	--	--	50
JUL								
09...	1.1	.05	.00	.07	5.4	.01	.160	40

TABLE 4. WATER-QUALITY DATA FOR NITROGEN AND PHOSPHORUS SPECIES AND CHEMICAL OXYGEN DEMAND-CONTINUED

	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, TOTAL (MG/L AS N03) (71887)	PHOS- PHORUS, ORTHO. TOTAL (MG/L AS P) (70507)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L) (00340)
--	-----------------------------------------------------------------	-----------------------------------------------------------------	-----------------------------------------------------------------	-----------------------------------------------------------------	--------------------------------------------------------	------------------------------------------------------------------	--------------------------------------------------------	----------------------------------------------------------------------------

275226082402004 - PINCOLF 0 4 E NR PINELLAS PARK (LAT 27 52 26 LONG 082 40 20)

AUG , 1979								
15...	1.2	.07	.01	.00	5.7	.03	.190	55
SFP								
06...	1.2	.06	.01	.00	5.6	.06	.420	77
27...	.73	.05	.00	.01	3.5	.08	.340	8
DEC								
13...	--	--	--	--	--	--	--	25
JAN , 1980								
03...	.78	.02	.01	.00	3.6	.02	.120	90
MAY								
20...	1.2	.08	.00	.17	6.4	--	--	58
JUL								
05...	.88	.10	.00	.02	4.4	.02	.290	32

275226082401901 - PINCOLF P 1 E NR PINELLAS PARK (LAT 27 52 26 LONG 082 40 19)

JUL , 1980								
10...	.82	.46	.00	.02	5.8	.00	.060	50

275226082401902 - PINCOLF P 2 E NR PINELLAS PARK (LAT 27 52 26 LONG 082 40 19)

MAY , 1980								
20...	1.1	.30	.00	.02	6.3	--	--	68
JUL								
10...	.66	.40	.00	.00	4.7	.00	.040	45

275226082401903 - PINCOLF P 3 E NR PINELLAS PARK (LAT 27 52 26 LONG 082 40 19)

MAY , 1980								
20...	.70	.30	.00	.00	4.4	--	--	50
JUL								
10...	.62	.42	.00	.00	4.6	.01	.220	40

275226082401904 - PINCOLF P 4 E NR PINELLAS PARK (LAT 27 52 26 LONG 082 40 19)

MAY , 1980								
20...	2.0	.18	.02	.14	10	--	--	90
JUL								
10...	.48	.20	.00	.00	3.0	.00	.480	45

TABLE 4. WATER-QUALITY DATA FOR NITROGEN AND PHOSPHORUS SPECIES AND CHEMICAL OXYGEN DEMAND-CONTINUED

DATE	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, TOTAL (MG/L AS NO3) (71887)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L) (00340)
------	-----------------------------------------------------------------	-----------------------------------------------------------------	-----------------------------------------------------------------	-----------------------------------------------------------------	--------------------------------------------------------	------------------------------------------------------------------	--------------------------------------------------------	----------------------------------------------------------------------------

275228082401905 - T1 NR PINELLAS PARK (LAT 27 52 28 LONG 082 40 19)

JUL , 1980								
14...	1.4	.46	.00	.01	8.3	.01	1.90	91

275228082401906 - T2 NR PINELLAS PARK (LAT 27 52 28 LONG 082 40 19)

MAY , 1980								
21...	5.2	.55	.01	.02	26	--	--	210
JUL								
14...	--	--	.00	.01	--	.00	.800	56

275228082401907 - T3 NR PINELLAS PARK (LAT 27 52 28 LONG 082 40 19)

JUL , 1980								
14...	--	--	.00	.01	--	.00	--	260

275210082411601 - PINELLAS CO. LF 18 (LAT 27 52 10 LONG 082 41 16)

JUN , 1979								
05...	3.4	.20	.01	.00	16	.08	.160	135
SEP								
21...	1.6	.60	.03	.00	9.9	.34	.660	10
NOV								
15...	2.2	.18	.00	.01	11	.00	.040	100
FEB , 1980								
25...	1.5	.30	.01	.00	8.0	.05	.100	74
APR								
15...	1.3	.30	.01	.01	7.2	.04	.130	100

275228082402001 - PINCOLF RAW LEACHATE FROM CELL NR PINELLAS PARK (LAT 27 52 28 LONG 082 40 20)

NOV , 1979								
15...	.72	.05	.01	.01	3.5	.01	13.0	0
JAN , 1980								
02...	14	.08	.03	.80	--	.18	.780	--
JUL								
07...	6.7	1.7	.02	.03	--	.13	.92	42

TABLE 4. WATER-QUALITY DATA FOR NITROGEN AND PHOSPHORUS SPECIES AND CHEMICAL OXYGEN DEMAND-CONTINUED

DATE	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, TOTAL (MG/L AS N03) (71887)	PHOS- PHORUS, ORTHO. TOTAL (MG/L AS P) (70507)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L) (00340)
------	-----------------------------------------------------------------	-----------------------------------------------------------------	-----------------------------------------------------------------	-----------------------------------------------------------------	--------------------------------------------------------	------------------------------------------------------------------	--------------------------------------------------------	----------------------------------------------------------------------------

275228082402000 - PINCOLF AER PND NR PINELLAS PARK (LAT 27 52 28 LONG 082 40 20)

APR , 1979								
05...	.12	.00	.00	.01	.60	.01	.020	6
JUN								
05...	1.2	.02	.01	.00	5.4	.01	.020	45
JUL								
16...	1.2	.04	.01	.00	5.5	.01	.020	22
20...	19	21	.04	.05	177	2.8	5.00	2000
DEC								
14...	--	--	--	--	--	--	--	370
JAN , 1980								
02...	15	.08	.02	.15	67	.09	.810	--
JUL								
07...	5.8	2.1	.01	.03	35	.30	.820	180

275227082402000 - PINCOLF OXD PND N NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 20)

MAR , 1979								
28...	1.6	.01	.01	.00	7.2	.01	.030	3
JUN								
05...	1.3	.01	.01	.00	5.8	.01	.020	40
05...	1.3	.02	.01	.00	5.9	.01	.020	72
JUL								
16...	1.4	.03	.01	.00	6.4	.00	.020	27
AUG								
15...	9.4	8.6	.02	.06	80	.59	.950	360
30...	14	9.2	.01	.00	105	.73	.910	220
SEP								
06...	32	16	.03	.00	213	2.1	2.20	230
27...	13	.55	.01	.04	60	.61	1.30	14
OCT								
18...	2.7	.11	.00	.01	12	.01	.050	20
NOV								
15...	1.9	.08	.01	.04	9.0	.02	.310	62
DEC								
14...	--	--	--	--	--	--	--	56
JAN , 1980								
02...	7.6	1.4	.02	.26	41	.42	.740	350
FEB								
25...	.12	.02	.02	.04	.90	.10	.810	210
APR								
15...	3.2	.27	.02	.00	15	.12	.340	84
MAY								
21...	1.1	.08	.01	.00	5.3	--	--	52
JUL								
07...	2.4	.19	.01	.01	12	.08	.180	80

TABLE 4. WATER-QUALITY DATA FOR NITROGEN AND PHOSPHORUS SPECIES AND CHEMICAL OXYGEN DEMAND-CONTINUED

DATE	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, TOTAL (MG/L AS NO3) (71887)	PHOS- PHORUS, ORTHO. TOTAL (MG/L AS P) (70507)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L) (00340)
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275225082402000 - PINCOLF OXD PND S NR PINELLAS PARK (LAT 27 52 25 LONG 082 40 20)

APR , 1979								
11...	1.3	.02	.00	.01	5.9	.01	.010	42
OCT								
18...	1.0	.07	.00	.04	4.9	.00	.040	5
NOV								
15...	1.5	.07	.00	.01	7.0	.00	.020	117
DEC								
13...	--	--	--	--	--	--	--	27
JAN , 1980								
03...	7.8	.15	.02	.07	36	.08	.490	200
FEB								
25...	3.2	.05	.01	.00	14	.07	.210	74
APR								
15...	1.4	.20	.01	.01	7.2	.03	.070	40
MAY								
21...	1.1	.05	.00	.02	5.2	--	--	60
JUL								
07...	1.1	.02	.00	.01	5.0	.01	.060	40

275231082401900 - PINELLAS CO. LF DITCH "A" SW 26 (LAT 27 52 31 LONG 082 40 19)

JAN , 1979								
23...	.85	.01	.00	.01	--	.00	.010	36
APR								
05...	.10	.02	.00	.01	.60	.01	.020	31
JUL								
12...	--	--	--	--	--	--	--	390
SEP								
27...	.88	.00	.01	.00	3.9	.01	.020	20
OCT								
18...	.91	.02	.00	.01	4.2	.01	.020	10
FEB , 1980								
14...	1.3	.07	.01	.00	6.1	.01	.030	78

TABLE 5. WATER-QUALITY DATA FOR TRACE METALS

(SAMPLE LOCATION DESCRIPTOR: ID NUMBER; SITE NAME; WELL CLUSTER
LETTER AND NUMBER OR SURFACE-WATER LETTER AND/OR NUMBER;
LOCATION DESCRIPTOR; LATITUDE AND LONGITUDE)

	ARSENIC	CADMIUM	CHRO-	COPPER,	LEAD,	MERCURY	ZINC,
	TOTAL	TOTAL	MIUM,	TOTAL	TOTAL	TOTAL	TOTAL
	RECOV-	RECOV-	RECOV-	RECOV-	RECOV-	RECOV-	RECOV-
	ERABLE	ERABLE	ERABLE	ERABLE	ERABLE	ERABLE	ERABLE
	(UG/L	(UG/L	(UG/L	(UG/L	(UG/L	(UG/L	(UG/L
DATE	AS AS)	AS CD)	AS CR)	AS CU)	AS PB)	AS HG)	AS ZN)
	(01002)	(01027)	(01034)	(01042)	(01051)	(71900)	(01092)

275227082402003 - PINCOLF C 3 NPND NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 20)

JUN , 1979							
07...	4	0	30	1	5	<.5	20
JUL							
17...	5	0	10	0	0	<.5	20
NOV							
15...	6	0	20	0	0	<.1	10
FEB , 1980							
26...	8	12	23	2	23	.3	20
APR							
15...	9	2	4	2	1	.1	20

275227082402023 - PINCOLF I 3 NE NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 20)

JUN , 1979							
07...	8	0	30	2	6	<.5	20
JUL							
17...	4	0	20	1	0	<.5	30
NOV							
15...	9	0	8	1	2	<.1	10
FEB , 1980							
26...	10	54	32	3	18	.6	40
APR							
15...	6	8	5	4	2	.1	100

275226082402003 - PINCOLF O 3 E NR PINELLAS PARK (LAT 27 52 26 LONG 082 40 20)

JUN , 1979							
07...	20	0	30	1	5	<.5	20
JUL							
17...	10	0	20	2	2	<.5	40
NOV							
15...	8	0	8	0	1	<.1	10
FEB , 1980							
26...	6	8	20	2	10	.4	20
APR							
15...	5	7	5	2	3	.1	30

275210082411601 - PINELLAS CO. LF 18 (LAT 27 52 10 LONG 082 41 16)

JUN , 1979							
05...	7	0	20	3	9	<.5	30
NOV							
15...	5	0	4	1	3	.2	20
FEB , 1980							
25...	4	22	13	3	35	.1	110
APR							
15...	4	9	4	4	9	.1	150

TABLE 5. WATER-QUALITY DATA FOR TRACE METALS - CONTINUED

DATE	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CU) (01027)	CHROMIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)

275228082402001 - PINCOLF RAW LEACHATE FROM CELL NR PINELLAS PARK (LAT 27 52 28 LONG 082 40 20)

JUL , 1979							
18...	11	1	50	7	8	0.0	790
NOV							
15...	61	4	350	66	97	1.0	220
JUL , 1980							
07	4	2	--	1	2	--	11

275228082402000 - PINCOLF AER PND NR PINELLAS PARK (LAT 27 52 28 LONG 082 40 20)

JUN , 1979							
05...	0	0	20	3	6	<.5	30
JUL							
16...	0	1	20	2	2	<.5	40
20...	8	2	60	6	9	1.0	530

275227082402000 - PINCOLF OXD PND N NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 20)

JUN , 1979							
05...	1	0	30	2	4	<.5	10
05...	1	0	30	1	2	<.5	20
JUL							
16...	2	1	20	1	0	<.5	40
NOV							
15...	3	0	13	2	2	<.1	20
FEB , 1980							
25...	3	0	37	2	1	.1	70
APR							
15...	2	0	5	2	2	.1	20

275225082402000 - PINCOLF OXD PND S NR PINELLAS PARK (LAT 27 52 25 LONG 082 40 20)

NOV , 1979							
15...	2	0	10	0	0	<.1	10
FEB , 1980							
25...	3	0	31	2	0	.2	170
APR							
15...	2	0	4	2	1	.1	20

275231082401900 - PINELLAS CO. LF DITCH "A" SW 26 (LAT 27 52 31 LONG 082 40 19)

JAN , 1979							
23...	1	2	10	1	12	<.5	20
APR							
05...	2	6	10	1	--	.5	10
FEB , 1980							
14...	--	2	13	1	7	.1	10

TABLE 6. WATER-QUALITY DATA FOR COLIFORMS

(SAMPLE LOCATION DESCRIPTOR: ID NUMBER; SITE NAME; WELL CLUSTER
LETTER AND NUMBER OR SURFACE-WATER LETTER AND/OR NUMBER;
LOCATION DESCRIPTOR; LATITUDE AND LONGITUDE)

DATE	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP- TOCOC FECAL, KF AGAR (COLS. PER 100 ML) (31673)
275227082402001 - PINCOLF C 1 NPND NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 20)			
AUG , 1979 01...	<10	<3	<3
275227082402002 - PINCOLF C 2 NPND NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 20)			
AUG , 1979 01...	<3	<2	<2
275227082402003 - PINCOLF C 3 NPND NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 20)			
AUG , 1979 01...	<3	K4	<2
275228082402001 - PINCOLF RAW LEACHATE FROM CELL NR PINELLAS PARK (LAT 27 52 28 LONG 082 40 20)			
JUL , 1979 18... 19... JUL , 1980 07... 14...	4800000 6900000 400000 220000	2000000 2900000 K190000 K180000	520000 2700000 2000 K50000
275228082402000 - PINCOLF AER PND NR PINELLAS PARK (LAT 27 52 28 LONG 082 40 20)			
JUL , 1979 19... 20... AUG 01... JUL , 1980 07... 14...	2500000 4500000 K370000 61000 K50000	K600000 2000000 K180000 K62000 33000	270000 2100000 270000 K1200 10000
275227082402000 - PINCOLF OXD PND N NR PINELLAS PARK (LAT 27 52 27 LONG 082 40 20)			
JUL , 1979 18... 19... AUG 01... 08... JUL , 1980 07... 14... AUG 13...	K120 360 K20000 42000 2700 10000 K180000	290 230 46000 550 K1100 3300	K26 92 K10000 2000 K10 230 350
275225082402000 - PINCOLF OXD PND S NR PINELLAS PARK (LAT 27 52 25 LONG 082 40 20)			
AUG , 1979 01... JUL , 1980 07...	K380 K12000	210 K50	K15000 K10

Table 7.--Water-quality data for macroinvertebrates, phytoplankton, and chlorophyll

[Macroinvertebrate, in cell counts/m², November 16, 1979;
dashed entry indicates no determination]

Species	South oxidation pond		North oxidation pond	
	1	2	3	4
Coleptera				
<u>Haliplidae peltodytes</u>	-	43	-	43
Diptera				
Ceratopogonidae				
<u>Dashyhelea grisea</u>	58,001	68,723	-	-
<u>Palpomyia tibialis</u>	301	904	-	43
Chaoboridae				
<u>Chaoborus punctipennis</u>	-	43	1,851	516
Chironomidae				
<u>Ablabesmyia Annulata</u>	4,176	2,239	-	-
<u>Chironomus carus</u>	-	-	2,669	2,368
<u>C. sp. pupae</u>	-	-	129	-
<u>Microtendipes sp.</u>	1,765	3,100	-	-
<u>Tanytus carinatus</u>	-	-	861	1,377
<u>T. stellatus</u>	-	-	-	43
<u>Tanytarsus sp.</u>	8,610	2,885	-	-
Unidentified penta-				
neurini	-	516	-	-
Unidentified pupae	947	645	-	258
Ephemeroptera				
Caenidae				
<u>Caenis diminuta</u>	-	43	-	-
Gastropoda				
Physidae				
<u>Physa spp.</u>	-	43	-	-
Hemiptera				
<u>Pelocoris spp.</u>	43	-	-	-
<u>Buenoa spp.</u>	43	-	-	-
Hydracarina	172	-	-	-
Nematoda	-	43	-	-
Odonata				
Aeshnidae				
<u>Anax amazili</u>	-	43	-	-

Table 7.--Water-quality data for macroinvertebrates, phytoplankton,
and chlorophyll--Continued

[Macroinvertebrate, in cell counts/m², November 16, 1979]

Species	1	SW-2 2	North oxidation pond 3	4
Oligochaeta				
Unidentified Lumbriculidae	-	301	-	43
Unidentified Tubificidae	43	43	-	-
* Total Count #/m ²	66,352	79,614	5,510	4,691
† Diversity Index (H')	.807	.932	1.581	1.846
** Evenness (E)	.243	.239	.790	.615
* Conversion factor from counts/sample to counts/m ² is 43.				
† $H' = -\frac{\sum P_i}{P} \log_2 \frac{P_i}{P}$				
where: P _i = total number of an individual in the sample				
P = total # of individuals				
** Evenness = $\frac{H'}{\log_2 s}$ s = # of species				

Table 7.--Water-quality data for macroinvertebrates, phytoplankton,
and chlorophyll--Continued

[Macroinvertebrate, in cell counts/m², August 12, 1980]

Species	SW-2		North oxidation pond	
	1	2	3	4
Diptera				
<u>Tabanidae</u>	-	43	-	-
Chaoboridae				
<u>Chaoborus punctipennis</u>	-	-	129	-
Chironomidae				
<u>Cladotanytarsus</u>	-	86	-	-
<u>Polypedilum halterale</u>	-	43	-	-
<u>Tanytarsus</u>	-	-	-	-
Oligochaeta				
Tubificidae				
<u>Limnodrilus hoffmeisteri</u>	-	129	-	-
<u>Psammoryctides convolutus</u>	-	-	43	-
Immature tubificidae	517	431	-	-
without capilliform	-	-	-	-
seta	-	-	-	-
Unidentified Tubificidae	-	-	-	43
Ostracoda				
unidentified ostracoda	-	-	258	43
Total count #m ²	517	732	430	86
Diversity (H')	-	1.735	1.295	.99
Evenness (E)	-	.747	.817	.99

Table 7.--Water-quality data for macroinvertebrates, phytoplankton,
and chlorophyll--Continued

[Phytoplankton, in cell counts/mL, November 16, 1979]

Species	South oxidation pond		North oxidation pond	
	1	2	3	4
DIVISION CHLOROPHYTA				
ORDER CHLOROCOCCALES				
<u>Ankistrodesmus falcatus</u>	-	147	-	75
<u>A. f. var. spiriliformis</u>	665	84	36	350
<u>Chlorella sp.</u>	190	147	144	-
<u>Crucigenia tetrapedia</u>	-	-	-	25
<u>Scenedesmus biguga</u>	95	63	36	-
<u>S. opolienis</u>	95	-	-	-
<u>S. quadricauda</u>	-	-	72	50
<u>S. sp.</u>	-	-	-	25
<u>Selenastrum minutum</u>	5,798	1,155	684	425
<u>Tetraedron caudatum</u>	95	21	-	-
Order Subtotal	6,938	1,617	972	950
O. Volvocales				
<u>Chlamydomonas botrys</u>	-	63	72	425
<u>C. fenestrata</u>	-	21	-	-
Order Subtotal	0	84	72	425
O. Zygnematales				
<u>Mougeotia spp.</u>	-	1	-	-
Division Subtotal	6,938	1,702	1,044	1,375
DIVISION CYANOPHYTA				
O. Chroococcales				
<u>Agmenellum quadruplicatum</u>	-	21	-	-
<u>Anacystis incerta</u>	380	-	-	-
Order Subtotal	380	21	0	0
O. Nostocales				
<u>Anabaena sphaerica</u>	-	21	-	25
<u>A. spp.</u>	95	21	-	-
Order Subtotal	95	42	0	25
O. Oscillatoriales				
<u>Oscillatoria geminata</u>	380	-	-	-
<u>Phormidium angustissimum</u>	95	36	-	-
<u>P. spp.</u>	-	-	36	-
Order Subtotal	665	36	36	0
Division Subtotal	1,140	99	36	25

Table 7.--Water-quality data for macroinvertebrates, phytoplankton,
and chlorophyll--Continued

[Phytoplankton, in cell counts/mL, November 16, 1979]

Species	South oxidation pond		North oxidation pond	
	1	2	3	4
DIVISION CRYPTOPHYTA				
F. Cryptochrysidaceae				
<u>Cryptomonas coerulea</u>	-	63	36	-
<u>C. erosa</u>	-	-	-	25
<u>Rhodomonas minuta</u>	2,281	714	2,088	1,225
Division Subtotal	2,281	777	2,124	1,250
DIVISION CHRYSOPHYTA				
F. Bacillariophyceae				
<u>Cocconeis placentula</u>	-	42	-	-
<u>Cyclotella glomerata</u>	-	-	144	150
<u>C. meneghiniana</u>	95	-	-	-
<u>Navicula cryptocephala</u>	190	-	-	-
<u>N. spp.</u>	-	21	144	25
<u>Nitzschia palea</u>	-	21	-	-
<u>N. thermalis</u>	-	-	-	50
Family Subtotal	285	84	288	225
O. Chromulinales				
<u>Cercobodo angustus</u>	-	-	72	-
<u>Monochrysis vesiculifera</u>	95	-	-	-
Order Subtotal	95	0	72	0
O. Ochromonadales				
<u>Mallomonas caudata</u>	-	-	72	-
<u>M. spp.</u>	-	-	-	25
<u>Synura spp.</u>	-	-	-	75
Order Subtotal	0	0	72	100
Division Subtotal	380	84	144	325
D. Euglenophyta				
F. Euglenaceae				
<u>Euglena proxima</u>	-	-	-	25
<u>Phacus spp.</u>	-	-	36	-
<u>Trachelomonas volvocina</u>	190	63	36	-
Division Subtotal	190	63	72	25
D. Pyrrhophyta				
F. Peridiniaceae				
<u>Peridinium inconspicuum</u>	190	21	36	-
TOTAL COUNT	10,929	2,746	3,744	3,000
Diversity (H')	2.363	2.745	2.350	2.77
Evenness (E)	.591	.635	.587	.693

Table 7.--Water-quality data for macroinvertebrates, phytoplankton,
and chlorophyll--Continued

[Phytoplankton, in cell counts/mL, August 12, 1980]

Species	1	SW-2 2	North oxidation pond 3	4
DIVISION CHLOROPHYTA				
0. Chlorococcales				
<u>Actinastrum</u> spp.	-	-	75	-
<u>Ankistrodesmus falcatus</u>	36	36	792	-
<u>Bottryococcus</u> spp.	-	-	38	-
<u>Coelastrum</u> spp.	-	-	-	113
<u>Crucigenia</u> spp.	-	4	-	-
<u>Elakothrix</u> spp.	-	-	-	30
<u>Golenkinia</u> spp.	-	4	-	-
<u>Kirchneriella</u> spp.	-	12	-	-
<u>Micratinium</u> spp.	-	-	75	-
<u>Oocystis</u> spp.	9	20	-	38
<u>Scenedesmus</u> spp.	12	32	-	-
<u>Tetraedron</u> spp.	9	24	-	38
Order Subtotal	66	122	980	219
0. Tetrasporales				
<u>Gloeocystis</u> spp.	9	-	-	-
Order Subtotal	9	0	0	0
0. Volvocales				
<u>Chlamydomonas</u>	93	164	-	38
<u>Eudorina elegans</u>	-	-	38	113
<u>Pandorina</u> spp.	-	-	-	38
<u>Spondylomorum</u> spp.	12	16	302	151
Order Subtotal	114	180	340	340
0. Zygnematales				
<u>Mougeotia</u> spp.	3	-	-	-
Order Subtotal	3	0	0	0
Unidentified coccoids	-	-	302	264
Unidentified flagellates	-	-	-	76
Subtotal	0	0	302	340
Division Subtotal	192	302	1,622	899
DIVISION EUGLENOPHYTA				
0. Euglenales				
<u>Euglena acus</u>	-	-	2,865	4,147
<u>Euglena</u> spp.	-	-	75	113
<u>Lepocinclis</u> spp.	-	-	-	38
<u>Pincus longicauda</u>	-	-	226	716
<u>P. orbicularis</u>	-	-	38	792
<u>Phacus</u> spp.	-	-	75	226
Order Subtotal	0	0	3,279	6,032
Division Subtotal	0	0	3,279	6,032

Table 7.--Water-quality data for macroinvertebrates, phytoplankton,
and chlorophyll--Continued

[Phytoplankton, in cell counts/mL, August 12, 1980]

Species	1	SW-2 2	North oxidation pond 3	4
DIVISION CYANOPHYTA				
O. Nostocales				
<u>Anabaena</u> spp.	-	8	-	-
Order Subtotal	0	8	0	0
O. Chroococales				
<u>Anacystis</u> spp.	-	1	-	113
Order Subtotal	0	1	0	113
O. Oscillatoriales				
<u>Oscillatoria</u> <u>geminata</u>	42	60	-	-
<u>Oscillatoria</u> spp.	87	80	75	113
Order Subtotal	129	140	75	113
Division Subtotal	129	149	75	226
DIVISION CRYPTOPHYTA				
F. Cryptochrysidaceae				
<u>Chroomonas</u> <u>norstedtii</u>	-	76	-	-
<u>Chroomonas</u> spp.	3	8	-	-
<u>Cryptomonas</u> spp.	-	-	-	38
Subtotal	3	84	0	38
DIVISION CHRYSOPHYTA				
F. Bacillariophyceae				
<u>Acnantes</u> spp.	9	4	-	-
<u>Amphora</u> spp.	9	4	-	-
<u>Cyclotella</u> spp.		20	-	-
<u>Diatoma</u> spp.	6	-	-	-
<u>Diploneis</u> spp.	6	-	-	-
<u>Gyrosigma</u> spp.	3	-	-	-
<u>Mastogloia</u> spp.	6	12	-	-
<u>Navicula</u> spp.	120	92	-	-
<u>Neidium</u> spp.	-	4	-	-
<u>Nitzschia</u> spp.	135	80	-	-
<u>Rhopalodia</u> spp.	6	-	-	-
<u>Synedra</u> spp.	24	4	-	-
Division Total	324	220	0	0
DIVISION PYRRHOPHYTA				
F. Glenediniaceae				
<u>Glenodinium</u> <u>pluvisculus</u>	-	-	1,697	3,770
dinoflagellate cysts	-	-	1,621	943
Division Total	0	0	3,318	4,713

Table 7.--Water-quality data for macroinvertebrates, phytoplankton,
and chlorophyll--Continued

[Phytoplankton, in cell counts/mL, August 12, 1980]

Species	SW-2		North oxidation pond	
	1	2	3	4
Total cells/mL	639	765	8,294	11,757
Total # of taxa	21	23	15	20
Diversity (H')	3.4	3.67	2.69	2.64
Evenness (E)	.77	.81	.69	.61

Source: Environmental Science and Engineering, Inc., 1980.

Table 7.--Water-quality data for macroinvertebrates, phytoplankton, and chlorophyll--Continued

[Chlorophyll, in mg/m^3 , November 16, 1979]

Location	Replicate	Chlorophyll a	\bar{x} (mg/m^3)
North oxidation pond	1	2.41	2.08
North oxidation pond	2	1.74	
South oxidation pond	1	.41	.61
South oxidation pond	2	.80	

Source: Environmental Science and Engineering, Inc., 1979.

Chlorophyll data, August 12, 1980

Location	Replicate	Chlorophyll a	\bar{x} (mg/m^3)
North oxidation pond	1	607.31	568.28
North oxidation pond	2	529.25	
SW-2	1	16.93	16.49
SW-2	2	16.04	

Procedure:

After the samples were received by ESE personnel, each sample was agitated for uniform dispersal of the planktonic organisms. An aliquot of 500 mL was drawn off for chlorophyll filtration through Gelman (type A/E) glass fiber filters. Two replicates were filtered for each pond. A spectrophotometric analysis was used to determine chlorophyll a values (Standard Methods, 1971).

Source: Environmental Science and Engineering, Inc., 1980.

Table 8.--Mean values of water-quality data for chemical and coliform constituents at ground- and surface-water quality monitoring sites

Chemical, physical, and biological constituents	Site location								
	Raw leachate	Aerator	North oxidation pond		South oxidation pond		Peripheral ground-water monitoring wells	SW-26 ditch "A"	LP-18
			Surface water	Ground water	Surface water	Ground water			
Temperature (°C)	22.6	26.5	26.7	24.7	23.1	23.1	26.5	25.6	24.4
Specific conductance (micromhos/cm)	1,812	1,058	980	1,082	761	1,197	1,162	759	1,235
pH (units; geometric mean)	6.84	8.15	7.70	7.03	7.60	6.76	6.87	7.26	7.23
Dissolved chloride (mg/L)	108	120	130	134	99	157	110	88	177
Color (Pt-Co units)	-	-	10 ^{1/}	5 ^{4/}	5 ^{1/}	-	12.5 ^{2/}	-	-
Alkalinity as CaCO ₃ (mg/L)	-	116 ^{1/}	93 ^{1/}	362 ^{4/}	113 ^{1/}	-	306 ^{2/}	-	-
Bicarbonate as HCO ₃ (mg/L)	-	142 ^{1/}	113 ^{1/}	441 ^{4/}	138 ^{1/}	-	373 ^{2/}	-	-
Dissolved calcium (mg/L)	223	120	77.3	112	76.6	168	137	76.6	126.8
Dissolved magnesium (mg/L)	20.3	13.46	14.2	12.55	9.76	12.50	13.09	9.58	12.5
Dissolved sodium (mg/L)	98.3	90	87	94	68	89	107	34.6	150.8
Dissolved potassium (mg/L)	41.8	23	35.4	5.87	7.61	1.89	1.97	1.74	1.08
Sodium adsorption ratio	4.0	2.6	2.67	2.41	1.99	1.77	2.45	.96	3.34
Hardness as CaCO ₃ (mg/L)	635	334	244	340	233	443	400	230	370
Hardness, noncarbonate (mg/L)	1,100 ^{1/}	253	159	225	47 ^{1/}	396	338	-	-
Total organic nitrogen as N (mg/L)	7.14	7.14	6.2	2.90	1.68	1.50	2.70	.81	2.00
Total ammonia as N (mg/L)	.61	7.05	2.44	1.93	.08	.70	.52	.02	.32
Total nitrite as N (mg/L)	.02	3.87	.01	.007	.005	.019	.004	.004	.01
Total nitrate as N (mg/L)	.28	.04	.03	.006	.02	.19	.02	.006	.004
Total nitrogen as NO ₃ (mg/L)	3.5 ^{1/}	48.42	38.6	22.1	10.90	10.69	14.35	3.70	10.42
Total orthophosphorus as P (mg/L)	.10	.54	.34	.06	.03	.01	.016	.008	.10
Total phosphorus as P (mg/L)	4.90	1.12	.56	.18	.13	.16	.31	.02	.22
Chemical oxygen demand, high level (mg/L)	21.0	437	117.5	55.2	35.0	44.4	50.7	94.2	83.8
Total arsenic as As (ug/L)	25.33	2.67	2.0	6.4	2.33	-	8.6	1.5	5.0
Total cadmium as Cd (ug/L)	2.60	1.0	.17	2.8	0.0	-	7.7	3.33	7.75
Total chromium as Cr (ug/L)	20.75	33.3	22.5	16.2	15.0	-	17.8	11.0	10.2
Total copper as Cu (ug/L)	2.20	3.67	1.67	1.0	1.33	-	1.80	1.0	2.75
Total lead as Pb (ug/L)	25.8	5.67	1.83	5.80	.33	-	4.90	39.67	14.0
Total mercury as Hg (ug/L)	.275	<.67	<.30	<.30	.13	-	<.34	.067	<.23
Total zinc as Zn (ug/L)	188.0	206.7	30.0	18.0	66.67	-	32.0	13.33	77.5
Total immed. coliform (col/100 mL)	3,080.00	1,496,200	36,454	<5.33 ^{3/}	6,190 ^{2/}	-	-	-	-
Total fecal coliform (col/100 mL)	1,317,500	467,000	8,781	<3.0 ^{3/}	130 ^{2/}	-	-	-	-
Fecal streptococci (col/100 mL)	818.00	530,240	1,815	<2.33 ^{3/}	7,505 ^{2/}	-	-	-	-

- ^{1/} This value represents one sample time for the site location
^{2/} This value represents two sample times for the site location
^{3/} This value represents three sample times for the site location
^{4/} This value represents four sample times for the site location



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