# SOUTHERN STATES UTILITIES, INC.
# DELTONA UTILITIES, INC.

BEFORE THE

## FLORIDA PUBLIC SERVICE COMMISSION

DOCKET NO. 920199-WS

## APPLICATION FOR A GENERAL RATE INCREASE

ORIGINAL
FILE COPY

**VOLUME IV**
**BOOK 4 OF 9**

ADDITIONAL ENGINEERING INFORMATION

FILED
DEC 12 1996
JON S. WHEELER
Clerk District Court of Appeal
First District

Containing

## CHEMICAL ANALYSES
## for
## Salt Springs through Zephyr Shores

FOR THE TEST YEAR ENDED
**DECEMBER 31, 1991**

DOCUMENT NUMBER-DATE
04745 MAY 11 1992
FPSC-RECORDS/REPORTING

**Case Nos. 1D98-0713 and 1D98-0727**
Florida Water Services Corporation vs. Florida Public Service Commission ("PSC");
Sugarmill Woods Civic Association, Inc. vs. Southern States Utilities, Inc. and the PSC
vs. Joseph J. DeRouin, et al.
**PSC Docket No. 920199-WS**

**DOCKET NO. 920199-WS**
**VOLUME IV**
**BOOK 4 OF 9**

# CHEMICAL ANALYSES

## TABLE OF CONTENTS


| SYSTEM NAME | COUNTY | PAGE |
|---|---|---|
| Salt Springs | Marion | 1 |
| Samira Villas | Marion | 33 |
| Saratoga Harbour | Putnam | 55 |
| Silver Lake Estates | Lake | 107 |
| Silver Lake Oaks | Putnam | 153 |
| Skycrest | Lake | 192 |
| Spring Hill Utilities | Hernando | 284 |
| St. Johns Highlands | Putnam | 556 |
| Stone Mountain | Lake | 598 |
| Sugar Mill | Volusia | 640 |
| Sugar Mill Woods | Citrus | 694 |
| Sunny Hills Utilities | Washington | 758 |
| Sunshine Parkway | Lake | 798 |
| Tropical Park | Osceola | 838 |
| University Shores | Orange | 894 |
| Venetian Village | Lake | 992 |
| Welaka | Putnam | 1029 |

DOCKET NO. 920199-WS
VOLUME IV
BOOK 4 OF 9

# CHEMICAL ANALYSES

## TABLE OF CONTENTS (Con't)


| SYSTEM NAME | COUNTY | PAGE |
|---|---|---|
| Western Shores | Lake | 1070 |
| Westmont | Orange | 1109 |
| Windsong | Osceola | 1112 |
| Woodmere | Duval | 1157 |
| Wootens | Putnam | 1195 |
| Zephyr Shores | Pasco | 1245 |

## ADDITIONAL ENGINEERING INFORMATION
## WATER CHEMICAL ANALYSIS SUMMARY

**FPSC**

COMPANY: ALL FILED FPSC SYSTEMS

Docket No: 920199-WS
Test Year Ended: 12/31/91
Interim [X] Final [X]
Historic [X] Projected [ ]

Explanation: Provide the most recent chemical analyses for the water system conducted by a certified laboratory covering the inorganic, organic, turbidity, microbiological, radionuclide, secondary and unregulated contaminants.


Preparer: Charles L. Sweat

| | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
|---|---|---|---|---|---|---|---|---|---|
| | | | | DATE SAMPLE TAKEN FOR ANALYSIS | | | | | |
| LINE NO. | SYSTEM | INORGANIC | ORGANIC | VOLATILE ORGANIC CHEMICAL | TURBIDITY | MICROBIOLOGICAL | RADIONUCLIDE | SECONDARY | UC |
| 1 | Amelia Island | 8/91 | 5/90 | 6/90, 10/90, 1/91, 4/91 | 10/90 | 12/91 | 6/88 | 8/91 | 2/89 |
| 2 | Apache Shores | 7/91 | 7/91 | 1/91, 3/91, 7/91, 10/91 | 7/91 | 12/91 | 3/88 | 7/91 | 1/91 |
| 3 | Apple Valley | 2/91 | 2/91 | 6/89, 9/89, 12/89, 2/90 | 2/91 | 12/91 | 2/91 | 2/91 | 2/91 |
| 4 | Bay Lake | 3/91 | 3/91 | 3/91, 6/91, 9/91, 12/91 | 3/91 | 12/91 | 11/89 | 3/91 | 3/91 |
| 5 | Beacon Hills | 9/90 | 7/91 | 2/90, 7/90, 10/90, 2/91 | 11/90 | 12/91 | 5/88 | 9/90 | 2/90 |
| 6 | Beacon Hills(Cobblestone) | 9/90 | 2/90 | 2/90, 7/90, 10/90, 2/91 | 11/90 | 12/91 | 10/90 | 9/90 | 9/90 |
| 7 | Beechers Point | 9/91 | 1/89 | 1/91, 4/91, 7/91, 10/91 | 1/89 | 12/91 | 8/91 | 9/91 | 1/91 |
| 8 | Burnt Store | 10/91 | 10/91 | 1/91, 4/91, 7/91, 10/91 | 10/91 | 12/91 | 8/90 | 10/91 | 10/91 |
| 9 | Carlton Village | 1/91 | 1/91 | 1/91, 4/91, 7/91, 10/91 | 1/91 | 12/91 | 1/91 | 1/91 | 1/91 |
| 10 | Chuluota | 3/91 | 3/91 | 3/91, 6/91, 9/91, 12/91 | 3/91 | 12/91 | 3/91 | 3/91 | 3/91 |
| 11 | Citrus Park | 8/90 | 8/90 | 8/90, 12/90, 3/91, 6/91 | 8/90 | 12/91 | 8/90 | 8/90 | 8/90 |
| 12 | Citrus Springs | 2/90 | 2/90 | 3/89, 6/89, 9/89, 12/89 | 2/90 | 12/91 | 2/90 | 2/90 | 2/90 |
| 13 | Crystal River | 7/91 | 7/91 | 1/91, 4/91, 7/91, 10/91 | 8/91 | 12/91 | 3/88 | 8/91 | 1/91 |
| 14 | Daetwyler | 10/89 | 10/89 | *, *, 3/91, 6/91 | 10/89 | 12/91 | 11/90 | 10/89 | 3/91 |
| 15 | Deltona Lake | 2/90 | 2/90 | *, 3/91, 5/91, 10/91 | 2/90 | 12/91 | 2/90 | 10/91 | 3/91 |
| 16 | Del Ray | 3/91 | 3/91 | 3/91, 6/91, 9/91, 12/91 | 3/91 | 12/91 | 3/91 | 3/91 | 3/91 |
| 17 | Druid Hills | 3/91 | 3/91 | 3/91, 6/91, 9/91, 12/91 | 3/91 | 12/91 | 3/91 | 3/91 | 3/91 |
| 18 | East Lake Harris Estates | 1/91 | 1/91 | 1/91, 4/91, 7/91, 10/91 | 1/91 | 12/91 | 1/91 | 1/91 | 1/91 |
| 19 | Fern Park | 9/90 | 9/90 | 9/90, 12/90, 3/91, 6/91 | 11/90 | 12/91 | 9/90 | 9/90 | 3/91 |
| 20 | Fern Terrace | 6/90 | 6/90 | 6/90, 9/90, 12/90, 3/91 | 6/90 | 12/91 | 6/90 | 6/90 | 3/91 |
| 21 | Fisherman's Haven | 8/90 | 8/90 | 2/91, 5/91, 8/91, 12/91 | 8/90 | 12/91 | 8/90 | 8/90 | 8/90 |
| 22 | Fountians | 1/91 | 1/91 | 1/91, *, *, * | 1/91 | 12/91 | 1/91 | 1/91 | 1/91 |
| 23 | Fox Run | 8/90 | 8/90 | 2/91, 5/91, 9/91, 12/91 | 12/91 | 12/91 | 9/90 | 8/90 | 8/90 |
| 24 | Friendly Center | 1/91 | 1/91 | 1/91, 4/91, 7/91, 10/91 | 1/91 | 12/91 | 1/91 | 1/91 | 1/91 |
| 25 | Golden Terrace | 8/91 | 8/91 | 1/91, 3/91, 7/91, 10/91 | 8/91 | 12/91 | 8/91 | 8/91 | 1/91 |
| 26 | Gospel Island | 8/91 | 8/91 | 1/91, 3/91, 7/91, 10/91 | 8/91 | 12/91 | 8/91 | 8/91 | 1/91 |
| 27 | Grand Terrace | 6/90 | 6/90 | 6/90, 9/90, 12/90, 3/91 | 6/90 | 12/91 | 6/90 | 6/90 | 3/91 |
| 28 | Harmony Homes | 3/91 | 3/91 | 3/91, 6/91, 9/91, 12/91 | 3/91 | 12/91 | 3/91 | 3/91 | 3/91 |
| 29 | Hermits Cove | 1/89 | 1/89 | 1/91, 4/91, 7/91, 10/91 | 3/89 | 12/91 | 3/89 | 1/89 | 1/91 |
| 30 | Hobby Hills | 1/91 | 1/91 | 1/91, 4/91, 7/91, 10/91 | 1/91 | 12/91 | 1/91 | 1/91 | 1/91 |
| 31 | Holiday Haven | * | * | *, *, *, * | * | 12/91 | * | * | * |
| 32 | Holiday Heights | 6/91 | 6/91 | 3/91, 6/91, 9/91, 12/91 | 6/91 | 12/91 | 6/91 | 6/91 | 6/91 |
| 33 | Imperial Terrace | 5/90 | 5/90 | 5/90, 9/90, 12/90, 3/91 | 5/90 | 12/91 | 5/90 | 5/90 | 3/91 |
| 34 | Intercession City | 8/90 | 8/90 | 3/91, 6/91, 9/91, 12/91 | 8/90 | 12/91 | 4/91 | 8/90 | 3/91 |
| 35 | Interlachen Lake Estates | 1/89 | 1/89 | 1/91, 4/91, 7/91, 10/91 | 1/89 | 12/91 | 1/89 | 1/89 | 1/91 |
| 36 | Jungle Den | * | * | *, *, *, * | * | 12/91 | * | * | * |

SUMM - 1

## ADDITIONAL ENGINEERING INFORMATION
## WATER CHEMICAL ANALYSIS SUMMARY

**FPSC**

COMPANY: ALL FILED FPSC SYSTEMS

Docket No: 920199-WS
Test Year Ended: 12/31/91
Interim [X] Final [X]
Historic [X] Projected [ ]

Explanation: Provide the most recent chemical analyses for the water system conducted by a certified laboratory covering the inorganic, organic, turbidity, microbiological, radionuclide, secondary and unregulated contaminants.


Preparer: Charles L. Swaat

| | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
|---|---|---|---|---|---|---|---|---|---|
| | | | | DATE SAMPLE TAKEN FOR ANALYSIS | | | | | |
| LINE NO. | SYSTEM | INORGANIC | ORGANIC | VOLATILE ORGANIC CHEMICAL | TURBIDITY | MICROBIOLOGICAL | RADIONUCLIDE | SECONDARY | UC |
| 1 | Keystone Heights | 8/91 | 8/91 | 1/91, 4/91, 7/91, 10/91 | 8/91 | 12/91 | 8/88 | 8/91 | 1/91 |
| 2 | Kingwood | * | * | * * * * | * | 12/91 | * | * | * |
| 3 | Lake Ajay | 3/91 | 3/91 | 3/91, 6/91, 9/91, 12/91 | 3/91 | 12/91 | 4/90 | 3/91 | 3/91 |
| 4 | Lake Brantley | 3/91 | 3/91 | 3/91, 6/91, 9/91, 12/91 | 3/91 | 12/91 | 3/91 | 3/91 | 3/91 |
| 5 | Lake Conway | 10/89 | 10/89 | * * 3/91, 6/91 | 10/89 | 12/91 | 11/90 | 10/89 | 3/91 |
| 6 | Lake Harriett | 3/91 | 3/91 | 3/91, 6/91, 9/91, 12/91 | 3/91 | 12/91 | 3/91 | 3/91 | 3/91 |
| 7 | Lakeview Villas | 11/90 | 11/89 | 1/91, 4/91, 6/91, 10/91 | 11/90 | 12/91 | 8/88 | 11/90 | 1/91 |
| 8 | Leilani Heights | 8/90 | 8/90 | 2/91, 5/91, 9/91, 12/91 | 8/90 | 12/91 | 9/90 | 8/90 | 8/90 |
| 9 | Leisure Lakes | 2/90 | 2/90 | 1/91, 4/91, 7/91 10/91 | 2/90 | 12/91 | 2/90 | 2/90 | 2/90 |
| 10 | Marco Shores | 12/91 | 3/91 | 1/91, 4/91, 7/91, 10/91 | 12/91 | 12/91 | 3/91 | 5/91 | 2/90 |
| 11 | Marion Oaks | 2/90 | 2/90 | 3/89, 6/89, 9/89, 12/89 | 2/90 | 12/91 | 2/90 | 2/90 | 10/91 |
| 12 | Meredith Manor | 2/91 | 2/91 | 6/89, 8/89, 11/89, 2/90 | 2/91 | 12/91 | 2/91 | 2/91 | 2/90 |
| 13 | Morningview | 1/91 | 1/91 | 1/91, 4/91, 7/91, 10/91 | 1/91 | 12/91 | 1/91 | 1/91 | 1/91 |
| 14 | Oak Forest | 7/91 | 7/91 | 1/91, 3/91, 7/91, 10/91 | 7/91 | 12/91 | 9/90 | 7/91 | 2/91 |
| 15 | Oakwood | * | * | * * * * | * | 12/91 | * | * | * |
| 16 | Palisades | 3/90 | 3/90 | 3/91, 5/91, 8/91, 11/91 | 3/90 | 12/91 | 3/90 | 3/90 | 3/90 |
| 17 | Palm Mobile Home | 1/91 | 1/91 | 1/91, 4/91, 7/91, 10/91 | 1/91 | 12/91 | 1/91 | 1/91 | 1/91 |
| 18 | Palm Port | 10/89 | 10/89 | 1/91, 4/91, 7/91, 10/91 | 4/90 | 12/91 | 7/91 | 4/90 | 1/91 |
| 19 | Palm Terrace | 8/89 | 8/89 | 1/91, 4/91, 7/91, 10/91 | 8/89 | 12/91 | 8/89 | 8/89 | 8/89 |
| 20 | Park Manor | 7/91 | 7/91 | 1/91, 4/91, 7/91, 10/91 | 7/91 | 12/91 | 6/88 | 7/91 | 1/91 |
| 21 | Picciola Island | 8/90 | 8/90 | 1/91, 4/91, 7/91, 10/91 | 8/90 | 12/91 | 8/90 | 8/90 | 1/91 |
| 22 | Pineridge | 2/90 | 2/90 | 1/91, 4/91, 7/91, 10/91 | 2/90 | 12/91 | 2/90 | 2/90 | 1/91 |
| 23 | Pineridge Estates | 3/91 | 3/91 | 3/91, 6/91, 9/91, 12/91 | 3/91 | 12/91 | 3/88 | 3/91 | 3/91 |
| 24 | Piney Woods | 3/91 | 3/91 | 3/91, 5/91, 8/91, 11/91 | 3/91 | 12/91 | 3/91 | 3/91 | 3/91 |
| 25 | Point 'O Woods | 11/89 | 11/89 | 1/91, 3/91, 7/91, 10/91 | 11/89 | 12/91 | 11/89 | 11/89 | 1/91 |
| 26 | Pomona Park | 1/89 | 1/89 | 1/91, 4/91, 7/91, 10/91 | 1/89 | 12/91 | 1/89 | 1/89 | 1/91 |
| 27 | Postmasters Village | 1/91 | 1/91 | 1/91, 4/91, 7/91, 10/91 | 1/91 | 12/91 | 2/88 | 1/91 | 1/91 |
| 28 | Quail Ridge | 2/90 | 2/90 | 5/91, 8/91, 11/91, 2/92 | 2/90 | 12/91 | 2/90 | 2/90 | 2/90 |
| 29 | River Grove | 8/91 | 8/91 | 1/91, 4/91, 7/91, 10/91 | 8/91 | 12/91 | 6/88 | 8/91 | 1/91 |
| 30 | River Park | 8/91 | 7/91 | 1/91, 4/91, 7/91, 10/91 | 8/91 | 12/91 | 3/88 | 8/91 | 1/91 |
| 31 | Rolling Green | 8/91 | 8/91 | 1/91, 3/91, 7/91, 10/91 | 8/91 | 12/91 | 8/91 | 8/91 | 1/91 |
| 32 | Rosemont | 11/89 | 11/89 | 1/91, 4/91, 7/91, 10/91 | 11/89 | 12/91 | 11/89 | 11/89 | 1/91 |
| 33 | Salt Springs | 1/91 | 1/91 | 1/91, 3/91, 6/91, 8/91 | 1/91 | 12/91 | 1/91 | 1/91 | 1/91 |
| 34 | Samira Villas | 8/90 | 8/90 | 8/90, 12/90, 3/91, 6/91 | 8/90 | 12/91 | 8/90 | 8/90 | 8/90 |
| 35 | Saratoga Harbour | 7/91 | 7/91 | 1/91, 4/91, 7/91, 10/91 | 7/91 | 12/91 | 6/88 | 7/91 | 1/91 |
| 36 | Silver Lake Estates | 9/90 | 9/90 | 3/91, 6/91, 9/91, 12/91 | 9/90 | 12/91 | 9/90 | 9/90 | 3/91 |

SUMM - 2

## ADDITIONAL ENGINEERING INFORMATION
## WATER CHEMICAL ANALYSIS SUMMARY

**FPSC**

COMPANY: ALL FILED FPSC SYSTEMS

Docket No: 920199-WS
Test Year Ended: 12/31/91
Interim [X] Final [X]
Historic [X] Projected [ ]

Explanation: Provide the most recent analyses for the water system conducted by a certified laboratory covering the inorganic, organic, turbidity, microbiological, radionuclide, secondary and unregulated contaminants.


Preparer: Charles L. Sweat

| | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
|---|---|---|---|---|---|---|---|---|---|
| | | | | DATE SAMPLE TAKEN FOR ANALYSIS | | | | | |
| LINE NO. | SYSTEM | INORGANIC | ORGANIC | VOLATILE ORGANIC CHEMICAL | TURBIDITY | MICROBIOLOGICAL | RADIONUCLIDE | SECONDARY | UC |
| 1 | Silver Lake Oaks | * | * | 1/91, 4/91, 7/91, 10/91 | * | 12/91 | 8/91 | * | 1/91 |
| 2 | Skycrest #1 | 8/90 | 8/90 | 5/90, 9/90, 12/90, 3/91 | 8/90 | 12/91 | 8/90 | 8/90 | 3/91 |
| 3 | Skycrest #2 | 8/90 | 8/90 | 3/91, 6/91, 9/91, 12/91 | 8/90 | 12/91 | 8/90 | 8/90 | 3/91 |
| 4 | Spring Hill | 2/90 | 2/90 | 2/91, 5/91, 8/91, 12/91 | 2/90 | 12/91 | 2/90 | 2/90 | 2/90 |
| 5 | St. Johns Highland | 1/89 | 1/89 | 1/91, 4/91, 7/91, 10/91 | 1/89 | 12/91 | 1/89 | 1/89 | 1/91 |
| 6 | Stone Mountain | 8/90 | 8/90 | 3/91, 5/91, 8/91, 11/91 | 8/90 | 12/91 | 8/90 | 8/90 | 8/90 |
| 7 | Sugar Mill Country Club | 2/89 | 2/89 | 2/91, 6/91, 8/91, 11/91 | 2/89 | 12/91 | 2/89 | 2/89 | 2/91 |
| 8 | Sugar Mill Woods | 12/89 | 12/89 | 2/90, 5/90, 9/90, 12/90 | 12/89 | 12/91 | 12/89 | 12/89 | 12/89 |
| 9 | Sunny Hill | 3/90 | 3/90 | 1/91, 4/91, 7/91, 10/91 | 3/90 | 12/91 | 3/90 | 3/90 | 1/91 |
| 10 | Sunshine Parkway | 8/90 | 8/90 | 3/91, 5/91, 8/91, 11/91 | 8/90 | 12/91 | 8/90 | 8/90 | 3/91 |
| 11 | Tropical Park #1 | 5/91 | 5/91 | 3/91, 6/91, 9/91, 12/91 | 5/91 | 12/91 | 3/91 | 5/91 | 3/91 |
| 12 | Tropical Park #2 | 3/91 | 3/91 | 3/91, 6/91, 9/91, 12/91 | 3/91 | 12/91 | 3/91 | 3/91 | 3/91 |
| 13 | University Shores | 3/91 | 3/91 | 3/89, 6/89, 8/89, 11/89 | 3/91 | 12/91 | 2/88 | 3/91 | 11/89 |
| 14 | University Shores (Suncrest) | 4/91 | 4/91 | 3/89, 6/89, 8/89, 11/89 | 4/91 | 12/91 | 2/88 | 4/91 | 11/89 |
| 15 | Venetian Village | 3/91 | 3/91 | 3/91, 5/91, 8/91, 11/91 | 3/91 | 12/91 | 3/91 | 3/91 | 3/91 |
| 16 | Welaka | 1/89 | 1/89 | 1/91, 4/91, 7/91, 10/91 | 1/89 | 12/91 | 1/89 | 1/89 | 1/91 |
| 17 | Western Shores | 3/91 | 3/91 | 3/91, 6/91, 9/91, 12/91 | 3/91 | 12/91 | 3/91 | 3/91 | 3/91 |
| 18 | Westmont | * | * | * * * * | * | 12/91 | * | * | * |
| 19 | Windsong | 3/91 | 3/91 | 3/91, 6/91, 9/91, 12/91 | 3/91 | 12/91 | 2/88 | 3/91 | 3/91 |
| 20 | Woodmere | 9/90 | 6/91 | 2/90, 7/90, 10/90, 2/91 | 9/90 | 12/91 | 4/89 | 9/90 | 9/90 |
| 21 | Wooten | 7/91 | 7/91 | 1/91, 4/91, 7/91, 10/91 | 7/91 | 12/91 | 6/88 | 7/91 | 1/91 |
| 22 | Zephyr Shores | 9/90 | 9/90 | 1/91, 4/91, 7/91, 10/91 | 9/90 | 12/91 | 9/90 | 9/90 | 9/90 |

# Salt Springs - 1115

**Marion County (SSU)**

**Water**

**- 1992 FPSC Filing -**

# Salt Springs

## Chemical Analyses

The most recent chemical analyses for the water system conducted by a certified laboratory covering the inorganic, organic, turbidity, microbiological, radionuclide, secondary and unregulated contaminants. .

| Chemical Analysis | Date Taken |
|---|---|
| Inorganic | 1/91 |
| Organic | 1/91 |
| Volatile Organic Chemicals | 1/91 |
| | 3/91 |
| | 6/91 |
| | 8/91 |
| Turbidity | 1/91 |
| Microbiological | 12/91 |
| Radionuclide | 1/91 |
| Secondary Contaminants | 1/91 |
| Unregulated Contaminants | 1/91 |

Full Drinking Water Inl.
Vo Hunnya
1 SE QTR
JAN 91

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 3420408
Public Water System Name: SALT SPRINGS
Public Water System Type (check one):
(X)Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyzed: Turbidity_X_; Inorganic_X_; Trihalomethane _X_;
Volatile Organic_X_; Organic Chemical_X_; Secondary Chemical_X_; Radiological_X_;
Unregulated Organic Purgeable_X_; Unregulated Organic Pesticide_X_;
Unregulated Base Neutral Extractable_X_; Unregulated Acid Extractable__X_;
Subcontracted Lab Certification Number For Radiological Parameters: HRS82139

**SAMPLE INFORMATION**
Sample Date (MMDDYY): 01-21-91
Laboratory Sample Number 18033
Sample Location (be specific): Tank Discharge to Distribution System
Sample Type (check all applicable):
( )Check (X)Regular Distribution ( )Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
( )Raw ( )Well ( )Resample
( )Special_____
Sampler Name, Title Phone: Bill Vocum Ops. Supv.
904- 547-1265

**ANALYSIS INFORMATION**
Extraction Date 2/12/91
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTED: Turbidity___; Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___; Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature:

Name Dr. Jefferson S Flowers

Title Technical Director

Laboratory Flowers Chemical Laboratories,Inc.

Date 2/20/91

Mail Results to the Appropriate DER or ACPHU Office:

_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 06/01/9 () Satisfactory () Unsatisfactory

## Turbidity Analysis
17-550.310(3)
(PWS026)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(NTU | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 0100 | Turbidity | 16033 | 1 | .350 | EPA180.1 | 0.05 | 1/23/91 |

Comments:

## Inorganic Analysis
17-550.310(1)
(PWS030)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1005 | Arsenic | 16033 | 0.05 | <0.0005 | EPA206.3 | 0.0005 | 2/12/91 |
| 1010 | Barium | 16033 | 1 | .250 | EPA208.1 | 0.01 | 2/12/91 |
| 1015 | Cadmium | 16033 | 0.01 | <0.001 | EPA213.1 | 0.001 | 1/23/91 |
| 1020 | Chromium | 16033 | 0.05 | <0.005 | EPA218.1 | 0.005 | 1/25/91 |
| 1025 | Fluoride | 16033 | 4 | .125 | EPA340.1 | 0.05 | 1/29/91 |
| 1030 | Lead | 16033 | 0.05 | <0.01 | EPA239.1 | 0.01 | 2/10/91 |
| 1035 | Mercury | 16033 | 0.002 | 0.0010 | EPA245.1 | 0.0002 | 1/25/91 |
| 1040 | Nitrate(as N) | 16033 | 10 | .347 | EPA353.1 | 0.01 | 01-25-91 |
| 1045 | Selenium | 16033 | 0.01 | <0.0005 | EPA270.3 | 0.0005 | 2/12/91 |
| 1050 | Silver | 16033 | 0.05 | <0.005 | EPA272.1 | 0.005 | 1/28/91 |
| 1052 | Sodium | 16033 | 160 | 51.3 | EPA273.1 | 0.002 | 1/29/91 |

Comments:

## Trihalomethane Analysis
17-550.310(2)(c)
(PWS027)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2950 | TTHM | 16033 | 0.10 | <0.001 | EPA502.2 | 0.001 | 1/28/91 |

Comments:

## Volatile Organic Analysis
17-550.310(2)(d)
(PWS029)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 16033 | .00002 | <0.000005 | EPA504.1 | .000005 | 2/8/91 |
| 2969 | Para-dichlorobenzene | 16033 | .075 | <0.001 | EPA502.2 | 0.001 | 1/28/91 |
| 2976 | Vinyl chloride | 16033 | 0.001 | <0.001 | EPA502.2 | 0.001 | 1/28/91 |
| 2977 | 1,1-dichloroethene | 16033 | 0.007 | <0.001 | EPA502.2 | 0.001 | 1/28/91 |
| 2980 | 1,2-dichloroethane | 16033 | 0.003 | <0.001 | EPA502.2 | 0.001 | 1/28/91 |
| 2981 | 1,1,1-trichloroethane | 16033 | 0.2 | <0.001 | EPA502.2 | 0.001 | 1/28/91 |
| 2982 | Carbon tetrachloride | 16033 | 0.003 | <0.001 | EPA502.2 | 0.001 | 1/28/91 |
| 2984 | Trichloroethene | 16033 | 0.003 | <0.001 | EPA502.2 | 0.001 | 1/28/91 |
| 2987 | Tetrachloroethene | 16033 | 0.003 | <0.001 | EPA502.2 | 0.001 | 1/28/91 |
| 2990 | Benzene | 16033 | 0.001 | <0.001 | EPA502.2 | 0.001 | 1/28/91 |

Comments:

## Organic Chemical Analysis
17-550.310(2)(a)(b)
(PWS029)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2005 | Endrin | 16033 | 0.0002 | <.000001 | EPA508 | .000001 | 2/12/91 |
| 2010 | Lindane | 16033 | 0.004 | <.000001 | EPA508 | .000001 | 2/12/91 |
| 2015 | Methoxychlor | 16033 | 0.1 | <0.00001 | EPA508 | 0.00001 | 2/12/91 |
| 2020 | Toxaphene | 16033 | 0.005 | <0.0001 | EPA508 | 0.0001 | 2/12/91 |
| 2105 | 2,4-D | 16033 | 0.1 | <0.00005 | EPA515 | 0.00005 | 2/13/91 |
| 2110 | 2,4,5-TP (Silvex) | 16033 | 0.01 | <0.00002 | EPA515 | 0.00002 | 2/13/91 |

Comments:

## Secondary Chemical Analysis
17-550.320
(PWS031)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1016 | Calcium | 16033 | | 47.5 | EPA215.1 | 0.1 | 1/24/91 |
| 1017 | Chloride | 16033 | 250 | 182 | EPA300.0 | 0.015 | 01-29-91 |
| 1019 | Carbonate CaCO3 | 16033 | | 105.3 | SM314A | 0.1 | 1/24/91 |
| 1021 | Hydroxide CaCO3 | 16033 | | 0.0 | SM406C | 0.1 | 1/24/91 |
| 1022 | Copper | 16033 | 1 | <0.005 | EPA220.1 | 0.005 | 1/23/91 |
| 1023 | Bicarbonate CaCO3 | 16033 | | 105.2 | SM406C | 0.1 | 1/24/91 |
| 1026 | Carbonate Alkalinity | 16033 | | 0.1 | SM406C | 0.1 | 1/24/91 |
| 1027 | Hydrogen Sulfide | 16033 | | | EPA376.1 | 0.5 | |
| 1028 | Iron | 16033 | 0.3 | .0650 | EPA236.1 | 0.01 | 1/24/91 |
| 1031 | Magnesium | 16033 | | 17.1 | EPA242.1 | 0.01 | 1/24/91 |
| 1032 | Manganese | 16033 | 0.05 | .000000 | EPA243.1 | 0.005 | 1/28/91 |
| 1055 | Sulfate | 16033 | 250 | 33.8 | EPA375.2 | 0.5 | 2/4/91 |
| 1095 | Zinc | 16033 | 5 | <0.001 | EPA289.1 | 0.001 | 1/23/91 |
| 1901 | Carbon Dioxide | 16033 | | 14.8 | SM406C | 0.1 | 1/24/91 |
| 1905 | Color | 16033 | 15 | 10.0 | EPA110.1 | 5 | 1/30/91 |
| 1915 | Total Hardness | 16033 | | 188.8 | SM314A | 0.1 | 1/24/91 |
| 1917 | NCH as CaCO3 | 16033 | | 83.5 | SM314A | 0.1 | 1/24/91 |
| 1920 | Odor(TON) | 16033 | 3 | 4.00 | EPA140.1 | 1 | 1/30/91 |
| 1924 | Field pH | 16033 | 6.5-8.5 | 7.9 | EPA150.1 | 0.01 | |
| 1925 | Lab pH | 16033 | 6.5-8.5 | 7.15 | EPA150.1 | 0.01 | 1/29/91 |
| 1927 | Alkalinity | 16033 | | 105 | EPA310.1 | 0.1 | 1/29/91 |
| 1930 | TDS | 16033 | 500 | 351 | EPA160.1 | 2.5 | 2/5/91 |
| 1996 | Temperature | 16033 | | 25 - | | 1 | 1/24/91 |
| 1997 | Langelier Index | 16033 | -0.2:+0.2 | -0.62 | SM203 | 0.01 | 1/24/91 |
| 1998 | Saturation Index | 16033 | | 7.77 | SM203 | 0.01 | 1/24/91 |
| 1999 | Stability Index | 16033 | | 8.39 | SM203 | 0.01 | 1/24/91 |
| 2909 | Foaming Agents | 16033 | 0.5 | <0.1 | EPA425.1 | 0.1 | 1/24/91 |
| | Field Chlorine | 16033 | | - | | 0.1 | |

Comments: DISSOLVED OXYGEN - FIELD 5.0
CHLORINE RESIDUAL - FIELD 1.2

## Radiological Analysis
17-550.310(5)
(PWS033)

| Parameter | Sample | MCL | Analysis | Analytical | Det.Limit | Analysis |
|---|---|---|---|---|---|---|

| ID | Name | Number | Value | Result(pCi/L | Method | Used | Date |
|---|---|---|---|---|---|---|---|
| 4000 | Gross alpha incl. Ra & U | 16033 | 5 | 2.8 | EPA900 | 1 | 2/18/91 |

Comments:

Unregulated Organic Purgeable Analysis
17-550.410(1)
(PWS034)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2210 | Chloromethane | 16033 | | <0.001 | EPA502.2 | 0.001 | 1/28/91 |
| 2212 | Dichlorodifluoromethane | 16033 | | <0.001 | EPA502.2 | 0.001 | 1/28/91 |
| 2214 | Bromomethane | 16033 | | <0.001 | EPA502.2 | 0.001 | 1/28/91 |
| 2216 | Chloroethane | 16033 | | <0.001 | EPA502.2 | 0.001 | 1/28/91 |
| 2218 | Trichlorofluoromethane | 16033 | | <0.001 | EPA502.2 | 0.001 | 1/28/91 |
| 2224 | trans-1,3,-dichloropropene | 16033 | | <0.001 | EPA502.2 | 0.001 | 1/28/91 |
| 2228 | cis-1,3-dichloropropene | 16033 | | <0.001 | EPA502.2 | 0.001 | 1/28/91 |
| 2251 | Methyl-tert-butylether | 16033 | | <0.001 | EPA502.2 | 0.001 | 1/28/91 |
| 2380 | cis-1,2-dichloroethene | 16033 | | <0.001 | EPA502.2 | 0.001 | 1/28/91 |
| 2408 | Dibromomethane | 16033 | | <0.001 | EPA502.2 | 0.001 | 1/28/91 |
| 2410 | 1,1-dichloropropene | 16033 | | <0.001 | EPA502.2 | 0.001 | 1/28/91 |
| 2412 | 1,3-dichloropropane | 16033 | | <0.001 | EPA502.2 | 0.001 | 1/28/91 |
| 2414 | 1,2,3-trichloropropane | 16033 | | <0.001 | EPA502.2 | 0.001 | 1/28/91 |
| 2416 | 2,2-dichloropropane | 16033 | | <0.001 | EPA502.2 | 0.001 | 1/28/91 |
| 2931 | 1,2-dibromo-3-chloropr | 16033 | | <0.001 | EPA502.2 | 0.001 | 1/28/91 |
| 2941 | Chloroform | 16033 | | <0.001 | EPA502.2 | 0.001 | 1/28/91 |
| 2942 | Bromoform | 16033 | | <0.001 | EPA502.2 | 0.001 | 1/28/91 |
| 2943 | Bromodichloromethane | 16033 | | <0.001 | EPA502.2 | 0.001 | 1/28/91 |
| 2944 | Dibromochloromethane | 16033 | | <0.001 | EPA502.2 | 0.001 | 1/28/91 |
| 2962 | p-xylene | 16033 | | <0.001 | EPA502.2 | 0.001 | 1/28/91 |
| 2964 | Methylene chloride | 16033 | | <0.001 | EPA502.2 | 0.001 | 1/28/91 |
| 2965 | o-chlorotoluene | 16033 | | <0.001 | EPA502.2 | 0.001 | 1/28/91 |
| 2966 | p-chlorotoluene | 16033 | | <0.001 | EPA502.2 | 0.001 | 1/28/91 |
| 2967 | m-dichlorobenzene | 16033 | | <0.001 | EPA502.2 | 0.001 | 1/28/91 |
| 2968 | o-dichlorobenzene | 16033 | | <0.001 | EPA502.2 | 0.001 | 1/28/91 |
| 2978 | 1,1-dichloroethane | 16033 | | <0.001 | EPA502.2 | 0.001 | 1/28/91 |
| 2979 | trans-1,2-dichloroethyl | 16033 | | <0.001 | EPA502.2 | 0.001 | 1/28/91 |
| 2983 | 1,2-dichloropropane | 16033 | | <0.001 | EPA502.2 | 0.001 | 1/28/91 |
| 2985 | 1,1,2-trichloroethane | 16033 | | <0.001 | EPA502.2 | 0.001 | 1/28/91 |
| 2986 | 1,1,1,2-tetrachloroetha | 16033 | | <0.001 | EPA502.2 | 0.001 | 1/28/91 |
| 2988 | 1,1,2,2-tetrachloroetha | 16033 | | <0.001 | EPA502.2 | 0.001 | 1/28/91 |
| 2989 | Chlorobenzene | 16033 | | <0.001 | EPA502.2 | 0.001 | 1/28/91 |
| 2991 | Toluene | 16033 | | <0.001 | EPA502.2 | 0.001 | 1/28/91 |
| 2992 | Ethylbenzene | 16033 | | <0.001 | EPA502.2 | 0.001 | 1/28/91 |
| 2993 | Bromobenzene | 16033 | | <0.001 | EPA502.2 | 0.001 | 1/28/91 |
| 2995 | m-xylene | 16033 | | <0.001 | EPA502.2 | 0.001 | 1/28/91 |
| 2996 | Styrene | 16033 | | <0.001 | EPA502.2 | 0.001 | 1/28/91 |
| 2997 | o-xylene | 16033 | | <0.001 | EPA502.2 | 0.001 | 1/28/91 |

Comments:

Unregulated Organic Pesticide Analysis
17-550.410(2)
(PWS035)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|

| | | | | | | |
|---|---|---|---|---|---|---|
| 2031 | Dalapon | 16033 | <.000001 | EPA515 | .000001 | 2/14/91 |
| 2036 | Oxamyl (Vydate) | 16033 | <0.002 | EPA531 | 0.002 | 2/14/91 |
| 2037 | Simazine | 16033 | <0.007 | EPA505 | 0.007 | 2/14/91 |
| 2040 | Picloram | 16033 | <0.00007 | EPA515 | 0.00007 | 2/14/91 |
| 2041 | Dinoseb | 16033 | <0.00001 | EPA515 | 0.00001 | 2/14/91 |
| 2043 | Aldicarb sulfoxide | 16033 | <0.002 | EPA531 | 0.002 | 2/14/91 |
| 2044 | Aldicarb sulfone | 16033 | <0.002 | EPA531 | 0.002 | 2/14/91 |
| 2045 | Metolachlor | 16033 | <0.0005 | EPA505 | 0.0005 | 2/14/91 |
| 2046 | Carbofuran | 16033 | <0.001 | EPA531 | 0.001 | 2/14/91 |
| 2047 | Aldicarb | 16033 | <0.002 | EPA531 | 0.002 | 2/14/91 |
| 2050 | Atrazine | 16033 | <0.002 | EPA505 | 0.002 | 2/14/91 |
| 2051 | Alachlor (Lasso) | 16033 | <0.0002 | EPA505 | 0.0002 | 2/14/91 |
| 2065 | Heptachlor | 16033 | <.000005 | EPA508 | .000005 | 2/14/91 |
| 2356 | Aldrin | 16033 | <0.00007 | EPA508 | 0.00007 | 2/14/91 |
| 2364 | Dieldrin | 16033 | <0.00001 | EPA508 | 0.00001 | 2/14/91 |
| 2440 | Dicamba | 16033 | <0.00001 | EPA515 | 0.00001 | 2/14/91 |
| 2959 | Chlordane | 16033 | <0.00001 | EPA508 | 0.00001 | 2/14/91 |
| 9114 | Pentachlorophenol | 16033 | <0.005 | EPA515 | 0.005 | 2/14/91 |

Comments:

**Unregulated Base Neutral Extractable Analysis**
**17-550.410(3)**
**(PWS036)**

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2042 | Hexachlorocyclopentadie | 16033 | | <0.001 | EPA508 | 0.001 | 2/12/91 |
| 2063 | Dioxin | 16033 | | <0.00001 | EPA613 | 0.00001 | 2/12/91 |
| 2262 | Isophorone | 16033 | | <0.001 | EPA609 | 0.001 | 2/12/91 |
| 2270 | 2,4-dinitrotoluene | 16033 | | <0.001 | EPA609 | 0.001 | 2/12/91 |
| 2282 | Dimethylphthalate | 16033 | | <0.001 | EPA606 | 0.001 | 2/12/91 |
| 2284 | Diethylphthalate | 16033 | | <0.001 | EPA606 | 0.001 | 2/12/91 |
| 2290 | Di-n-butylphthalate | 16033 | | <0.001 | EPA606 | 0.001 | 2/12/91 |
| 2294 | Butyl benzyl phthalate | 16033 | | <0.001 | EPA606 | 0.001 | 2/12/91 |
| 2298 | Bis(2-ethylhexyl)phthal | 16033 | | <0.001 | EPA606 | 0.001 | 2/12/91 |
| 2378 | 1,2,4-trichlorobenzene | 16033 | | <0.001 | EPA612 | 0.001 | 2/12/91 |
| 2388 | PCB-1016 | 16033 | | <0.0001 | EPA505 | 0.0001 | 2/12/91 |
| 2390 | PCB-1221 | 16033 | | <0.0001 | EPA505 | 0.0001 | 2/12/91 |
| 2392 | PCB-1232 | 16033 | | <0.0001 | EPA505 | 0.0001 | 2/12/91 |
| 2394 | PCB-1242 | 16033 | | <0.0001 | EPA505 | 0.0001 | 2/12/91 |
| 2396 | PCB-1248 | 16033 | | <0.0001 | EPA505 | 0.0001 | 2/12/91 |
| 2398 | PCB-1254 | 16033 | | <0.0001 | EPA505 | 0.0001 | 2/12/91 |
| 2400 | PCB-1260 | 16033 | | <0.0001 | EPA505 | 0.0001 | 2/12/91 |
| 9089 | Dioctylphthalate | 16033 | | <0.001 | EPA606 | 0.001 | 2/12/91 |

Comments:

**Unregulated Acid Extractable Analysis**
**17-550.410(4)**
**(PWS037)**

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 9108 | 2-chlorophenol | 16033 | | <0.001 | EPA604 | 0.001 | 2/12/91 |
| 9112 | 2-methyl-4,6-dinitophe | 16033 | | <0.001 | EPA604 | 0.001 | 2/12/91 |
| 9115 | Phenol | 16033 | | <0.001 | EPA604 | 0.001 | 2/12/91 |
| 9116 | 2,4,6-trichlorophenol | 16033 | | <0.001 | EPA604 | 0.001 | 2/12/91 |

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

Full DRINKING WATER

QTR.

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 3420408
Public Water System Name SALT SPRINGS
Public Water System Type (check one):
(X)Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyzed Turbidity_X_;Inorganic_X_; Trihalomethane _X_;
Volatile Organic_X_; Organic Chemical_X_; Secondary Chemical_X_; Radiological_X_;
Unregulated Organic Purgeable_X_; Unregulated Organic Pesticide_X_;
Unregulated Base Neutral Extractable_X_;Unregulated Acid Extractable__X_;
Subcontracted Lab Certification Numbe For Radiological Parameters: HRS82139

**SAMPLE INFORMATION**
Sample Date (MMDDYY): 03-14-91
Laboratory Sample Number 16486
Sample Location (be specific): SALT SPRINGS BACKUP WELL (Forestry) #2
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
(X)Raw (X)Well ( )Resample
( )Special
Sampler Name, Title Phone: DAVID CONNEY - OPERATOR
904-347-1265

**ANALYSIS INFORMATION**
Extraction Date 3/20/91
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTED Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature:

Name Dr Jefferson S Flowers

Title Technical Director

Laboratory Flowers Chemical Laboratories,inc.

Date 4/12/91

Mail Results to the Appropriate DER or ACPHU Office:

DER /ACPHU Reviewing Offical:

PWSA.01 Sample Interpretation (check one):
Effective 06/01/8 () Satisfactory () Unsatisfactory

## Turbidity Analysis
17-550.310(3)
(PWS026)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(NTU | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 0100 | Turbidity | 16486 | 1 | .260 | EPA180.1 | 0.05 | 3/20/91 |

Comments:

## Inorganic Analysis
17-550.310(1)
(PWS030)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1005 | Arsenic | 16486 | 0.05 | <0.0005 | EPA206.3 | 0.0005 | 4/2/91 |
| 1010 | Barium | 16486 | 1 | .120 | EPA208.1 | 0.01 | 3/29/91 |
| 1015 | Cadmium | 16486 | 0.01 | <0.001 | EPA213.1 | 0.001 | 3/18/91 |
| 1020 | Chromium | 16486 | 0.05 | <0.005 | EPA218.1 | 0.005 | 3/18/91 |
| 1025 | Fluoride | 16486 | 4 | .0586 | EPA340.1 | 0.05 | 3/26/91 |
| 1030 | Lead | 16486 | 0.05 | .0100 | EPA239.2 | 0.001 | 3/22/91 |
| 1035 | Mercury | 16486 | 0.002 | <0.0002 | EPA245.1 | 0.0002 | 3/27/91 |
| 1040 | Nitrate(as N) | 16486 | 10 | .0780 | EPA353.1 | 0.01 | 03-27-91 |
| 1045 | Selenium | 16486 | 0.01 | <0.0005 | EPA270.3 | 0.0005 | 3/19/91 |
| 1050 | Silver | 16486 | 0.05 | .0210 | EPA272.1 | 0.005 | 3/20/91 |
| 1052 | Sodium | 16486 | 160 | 1.11 | EPA273.1 | 0.002 | 3/28/91 |

Comments:

## Trihalomethane Analysis
17-550.310(2)(c)
(PWS027)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2950 | TTHM | 16486 | 0.10 | .00652 | EPA502.2 | 0.001 | 3/24/91 |

Comments:

## Volatile Organic Analysis
17-550.310(2)(d)
(PWS029)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 16486 | .00002 | <.000005 | EPA504.1 | .000005 | 3/29/91 |
| 2969 | Para-dichlorobenzene | 16486 | .075 | <0.001 | EPA502.2 | 0.001 | 3/24/91 |
| 2976 | Vinyl chloride | 16486 | 0.001 | <0.001 | EPA502.2 | 0.001 | 3/24/91 |
| 2977 | 1,1-dichloroethene | 16486 | 0.007 | <0.001 | EPA502.2 | 0.001 | 3/24/91 |
| 2980 | 1,2-dichloroethane | 16486 | 0.003 | <0.001 | EPA502.2 | 0.001 | 3/24/91 |
| 2981 | 1,1,1-trichloroethane | 16486 | 0.2 | <0.001 | EPA502.2 | 0.001 | 3/24/91 |
| 2982 | Carbon tetrachloride | 16486 | 0.003 | <0.001 | EPA502.2 | 0.001 | 3/24/91 |
| 2984 | Trichloroethene | 16486 | 0.003 | <0.001 | EPA502.2 | 0.001 | 3/24/91 |
| 2987 | Tetrachloroethene | 16486 | 0.003 | <0.001 | EPA502.2 | 0.001 | 3/24/91 |
| 2990 | Benzene | 16486 | 0.001 | <0.001 | EPA502.2 | 0.001 | 3/24/91 |

Comments:

## Organic Chemical Analysis
17-550.310(2)(a)(b)
(PWS029)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2005 | Endrin | 16486 | 0.0002 | <.000001 | EPA508 | .000001 | 3/20/91 |
| 2010 | Lindane | 16486 | 0.004 | <.000001 | EPA508 | .000001 | 3/20/91 |
| 2015 | Methoxychlor | 16486 | 0.1 | <0.00001 | EPA508 | 0.00001 | 4/1/91 |
| 2020 | Toxaphene | 16486 | 0.005 | <0.0001 | EPA508 | 0.0001 | 3/20/91 |
| 2105 | 2,4-D | 16486 | 0.1 | <0.00005 | EPA515 | 0.00005 | 4/1/91 |
| 2110 | 2,4,5-TP (Silvex) | 16486 | 0.01 | <0.00002 | EPA515 | 0.00002 | 4/1/91 |

Comments:

## Secondary Chemical Analysis
17-550.320
(PWS031)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1016 | Calcium | 16486 | | 48.4 | EPA215.1 | 0.1 | 3/20/91 |
| 1017 | Chloride | 16486 | 250 | 107 | EPA300.0 | 0.015 | 03-25-91 |
| 1019 | Carbonate CaCO3 | 16486 | | 109.0 | SM314A | 0.1 | 3/20/91 |
| 1021 | Hydroxide CaCO3 | 16486 | | 0.0 | SM406C | 0.1 | 3/20/91 |
| 1022 | Copper | 16486 | 1 | 0.024 | EPA220.1 | 0.005 | 3/18/91 |
| 1023 | Bicarbonate CaCO3 | 16486 | | 108.3 | SM406C | 0.1 | 3/20/91 |
| 1026 | Carbonate Alkalinity | 16486 | | 0.7 | SM406C | 0.1 | 3/20/91 |
| 1027 | Hydrogen Sulfide | 16486 | | | EPA376.1 | 0.5 | |
| 1028 | Iron | 16486 | 0.3 | 0.129 | EPA236.1 | 0.01 | 3/15/91 |
| 1031 | Magnesium | 16486 | | 16.8 | EPA242.1 | 0.01 | 3/20/91 |
| 1032 | Manganese | 16486 | 0.05 | 0.008 | EPA243.1 | 0.005 | 3/25/91 |
| 1055 | Sulfate | 16486 | 250 | 34.7 | EPA300.0 | 0.200 | 3/28/91 |
| 1095 | Zinc | 16486 | 5 | 0.009 | EPA289.1 | 0.001 | 3/18/91 |
| 1901 | Carbon Dioxide | 16486 | | 3.4 | SM406C | 0.1 | 3/20/91 |
| 1905 | Color | 16486 | 15 | 10 | EPA110.1 | 5 | 3/27/91 |
| 1915 | Total Hardness | 16486 | | 190.0 | SM314A | 0.1 | 3/20/91 |
| 1917 | NCH as CaCO3 | 16486 | | 81.0 | SM314A | 0.1 | 3/20/91 |
| 1920 | Odor(TON) | 16486 | 3 | <1 | EPA140.1 | 1 | 3/27/91 |
| 1924 | Field pH | 16486 | 6.5-8.5 | 7.65 | EPA150.1 | 0.01 | |
| 1925 | Lab pH | 16486 | 6.5-8.5 | 7.81 | EPA150.1 | 0.01 | 3/15/91 |
| 1926 | Field Conductivity | 16486 | | 472.7 | - | 0.01 | |
| 1927 | Total Alkalinity | 16486 | | 109 | EPA310.1 | 0.1 | 3/15/91 |
| 1930 | TDS | 16486 | 500 | 326 | EPA160.1 | 2.5 | 3/22/91 |
| 1931 | Phenolphthalein Alk. | 16486 | | | EPA310.1 | 0.1 | |
| 1996 | Field Temp. (C) | 16486 | | 25 | - | | 1 3/20/91 |
| 1997 | Langelier Index | 16486 | -0.2:+0.2 | 0.06 | SM203 | 0.01 | 3/20/91 |
| 1998 | Saturation Index | 16486 | | 7.75 | SM203 | 0.01 | 3/20/91 |
| 1999 | Stability Index | 16486 | | 7.69 | SM203 | 0.01 | 3/20/91 |
| 2909 | Foaming Agents | 16486 | 0.5 | <0 | EPA425.1 | 0.1 | 4/1/91 |
| 9996 | Field DO | 16486 | | 4.6 | - | 0.1 | |
| 9997 | Field Chlorine | 16486 | | 0.0 | - | 0.1 | |

Comments:

## Radiological Analysis
17-550.310(5)

(PWS033)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(pCi/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 4000 | Gross alpha incl. Ra & U | 16486 | 5 | 0.6 | EPA900 | 0.1 | 4/11/91 |

Comments:

Unregulated Organic Purgeable Analysis
17-550.410(1)
(PWS034)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2210 | Chloromethane | 16486 | | <0.001 | EPA502.2 | 0.001 | 3/24/91 |
| 2212 | Dichlorodifluoromethane | 16486 | | <0.001 | EPA502.2 | 0.001 | 3/24/91 |
| 2214 | Bromomethane | 16486 | | <0.001 | EPA502.2 | 0.001 | 3/24/91 |
| 2216 | Chloroethane | 16486 | | <0.001 | EPA502.2 | 0.001 | 3/24/91 |
| 2218 | Trichlorofluoromethane | 16486 | | <0.001 | EPA502.2 | 0.001 | 3/24/91 |
| 2224 | trans-1,3,-dichloroprop | 16486 | | <0.001 | EPA502.2 | 0.001 | 3/24/91 |
| 2228 | cis-1,3-dichloropropene | 16486 | | <0.001 | EPA502.2 | 0.001 | 3/24/91 |
| 2251 | Methyl-tert-butylether | 16486 | | <0.001 | EPA502.2 | 0.001 | 3/24/91 |
| 2380 | cis-1,2-dichloroethene | 16486 | | <0.001 | EPA502.2 | 0.001 | 3/24/91 |
| 2408 | Dibromomethane | 16486 | | <0.001 | EPA502.2 | 0.001 | 3/24/91 |
| 2410 | 1,1-dichloropropene | 16486 | | <0.001 | EPA502.2 | 0.001 | 3/24/91 |
| 2412 | 1,3-dichloropropane | 16486 | | <0.001 | EPA502.2 | 0.001 | 3/24/91 |
| 2414 | 1,2,3-trichloropropane | 16486 | | <0.001 | EPA502.2 | 0.001 | 3/24/91 |
| 2416 | 2,2-dichloropropane | 16486 | | <0.001 | EPA502.2 | 0.001 | 3/24/91 |
| 2931 | 1,2-dibromo-3-chloropr | 16486 | | <0.001 | EPA502.2 | 0.001 | 3/24/91 |
| 2941 | Chloroform | 16486 | | <0.001 | EPA502.2 | 0.001 | 3/24/91 |
| 2942 | Bromoform | 16486 | | .00652 | EPA502.2 | 0.001 | 3/24/91 |
| 2943 | Bromodichloromethane | 16486 | | <0.001 | EPA502.2 | 0.001 | 3/24/91 |
| 2944 | Dibromochloromethane | 16486 | | <0.001 | EPA502.2 | 0.001 | 3/24/91 |
| 2962 | p-xylene | 16486 | | <0.001 | EPA502.2 | 0.001 | 3/24/91 |
| 2964 | Methylene chloride | 16486 | | <0.001 | EPA502.2 | 0.001 | 3/24/91 |
| 2965 | o-chlorotoluene | 16486 | | <0.001 | EPA502.2 | 0.001 | 3/24/91 |
| 2966 | p-chlorotoluene | 16486 | | <0.001 | EPA502.2 | 0.001 | 3/24/91 |
| 2967 | m-dichlorobenzene | 16486 | | <0.001 | EPA502.2 | 0.001 | 3/24/91 |
| 2968 | o-dichlorobenzene | 16486 | | <0.001 | EPA502.2 | 0.001 | 3/24/91 |
| 2978 | 1,1-dichloroethane | 16486 | | <0.001 | EPA502.2 | 0.001 | 3/24/91 |
| 2979 | trans-1,2-dichloroethyl | 16486 | | <0.001 | EPA502.2 | 0.001 | 3/24/91 |
| 2983 | 1,2-dichloropropane | 16486 | | <0.001 | EPA502.2 | 0.001 | 3/24/91 |
| 2985 | 1,1,2-trichloroethane | 16486 | | <0.001 | EPA502.2 | 0.001 | 3/24/91 |
| 2986 | 1,1,1,2-tetrachloroetha | 16486 | | <0.001 | EPA502.2 | 0.001 | 3/24/91 |
| 2988 | 1,1,2,2-tetrachloroetha | 16486 | | <0.001 | EPA502.2 | 0.001 | 3/24/91 |
| 2989 | Chlorobenzene | 16486 | | <0.001 | EPA502.2 | 0.001 | 3/24/91 |
| 2991 | Toluene | 16486 | | <0.001 | EPA502.2 | 0.001 | 3/24/91 |
| 2992 | Ethylbenzene | 16486 | | <0.001 | EPA502.2 | 0.001 | 3/24/91 |
| 2993 | Bromobenzene | 16486 | | <0.001 | EPA502.2 | 0.001 | 3/24/91 |
| 2995 | m-xylene | 16486 | | <0.001 | EPA502.2 | 0.001 | 3/24/91 |
| 2996 | Styrene | 16486 | | <0.001 | EPA502.2 | 0.001 | 3/24/91 |
| 2997 | o-xylene | 16486 | | <0.001 | EPA502.2 | 0.001 | 3/24/91 |

Comments:

Unregulated Organic Pesticide Analysis
17-550.410(2)
(PWS035)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2031 | Dalapon | 16486 | | <.000001 | EPA515 | .000001 | 4/1/91 |
| 2036 | Oxamyl (Vydate) | 16486 | | <0.002 | EPA531 | 0.002 | 3/19/91 |
| 2037 | Simazine | 16486 | | <0.007 | EPA505 | 0.007 | 4/1/91 |
| 2040 | Picloram | 16486 | | <0.00007 | EPA515 | 0.00007 | 4/1/91 |
| 2041 | Dinoseb | 16486 | | <0.00001 | EPA515 | 0.00001 | 4/1/91 |
| 2043 | Aldicarb sulfoxide | 16486 | | <0.002 | EPA531 | 0.002 | 3/19/91 |
| 2044 | Aldicarb sulfone | 16486 | | <0.002 | EPA531 | 0.002 | 3/19/91 |
| 2045 | Metolachlor | 16486 | | <0.0005 | EPA505 | 0.0005 | 4/1/91 |
| 2046 | Carbofuran | 16486 | | <0.001 | EPA531 | 0.001 | 3/19/91 |
| 2047 | Aldicarb | 16486 | | <0.002 | EPA531 | 0.002 | 3/19/91 |
| 2050 | Atrazine | 16486 | | <0.002 | EPA505 | 0.002 | 4/1/91 |
| 2051 | Alachlor (Lasso) | 16486 | | <0.0002 | EPA505 | 0.0002 | 4/1/91 |
| 2065 | Heptachlor | 16486 | | <.000005 | EPA508 | .000005 | 3/20/91 |
| 2356 | Aldrin | 16486 | | <0.00007 | EPA508 | 0.00007 | 3/20/91 |
| 2364 | Dieldrin | 16486 | | <0.00001 | EPA508 | 0.00001 | 3/20/91 |
| 2440 | Dicamba | 16486 | | <0.00001 | EPA515 | 0.00001 | 4/1/91 |
| 2959 | Chlordane | 16486 | | <0.00001 | EPA508 | 0.00001 | 3/20/91 |
| 9114 | Pentachlorophenol | 16486 | | <0.005 | EPA515 | 0.005 | 4/1/91 |

Comments:

Unregulated Base Neutral Extractable Analysis
17-550.410(3)
(PWS036)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2042 | Hexachlorocyclopentadie | 16486 | | <0.001 | EPA508 | 0.001 | 4/1/91 |
| 2063 | Dioxin | 16486 | | <0.00001 | EPA613 | 0.00001 | 3/20/91 |
| 2262 | Isophorone | 16486 | | <0.001 | EPA609 | 0.001 | 3/29/91 |
| 2270 | 2,4-dinitrotoluene | 16486 | | <0.001 | EPA609 | 0.001 | 3/29/91 |
| 2282 | Dimethylphthalate | 16486 | | <0.001 | EPA606 | 0.001 | 3/29/91 |
| 2284 | Diethylphthalate | 16486 | | <0.001 | EPA606 | 0.001 | 3/29/91 |
| 2290 | Di-n-butylphthalate | 16486 | | <0.001 | EPA606 | 0.001 | 3/29/91 |
| 2294 | Butyl benzyl phthalate | 16486 | | <0.001 | EPA606 | 0.001 | 3/29/91 |
| 2298 | Bis(2-ethylhexyl)phthal | 16486 | | <0.001 | EPA606 | 0.001 | 3/29/91 |
| 2378 | 1,2,4-trichlorobenzene | 16486 | | <0.001 | EPA612 | 0.001 | 3/29/91 |
| 2388 | PCB 1016 | 16486 | | <0.0001 | EPA505 | 0.0001 | 3/20/91 |
| 2390 | PCB 1221 | 16486 | | <0.0001 | EPA505 | 0.0001 | 3/20/91 |
| 2392 | PCB 1232 | 16486 | | <0.0001 | EPA505 | 0.0001 | 3/20/91 |
| 2394 | PCB 1242 | 16486 | | <0.0001 | EPA505 | 0.0001 | 3/20/91 |
| 2396 | PCB 1248 | 16486 | | <0.0001 | EPA505 | 0.0001 | 3/20/91 |
| 2398 | PCB 1254 | 16486 | | <0.0001 | EPA505 | 0.0001 | 3/20/91 |
| 2400 | PCB 1260 | 16486 | | <0.0001 | EPA505 | 0.0001 | 3/20/91 |
| 9089 | Dioctylphthalate | 16486 | | <0.001 | EPA606 | 0.001 | 3/29/91 |

Comments:

Unregulated Acid Extractable Analysis
17-550.410(4)
(PWS037)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 9108 | 2-chlorophenol | 16486 | | <0.001 | EPA604 | 0.001 | 3/29/91 |
| 9112 | 2-methyl-4,6-dinitophe | 16486 | | <0.001 | EPA604 | 0.001 | 3/29/91 |
| 9115 | Phenol | 16486 | | <0.001 | EPA604 | 0.001 | 3/29/91 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 9116 | 2,4,6-trichlorophenol | 16486 | <0.001 | EPA604 | 0.001 | 3/29/91 |

Comments:

DUP GTK 1C
March 91

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 3420199 & 3420408
Public Water System Name Citrus Park & Salt Springs — 2ND ON SALT SPRINGS
Public Water System Type (check one):
X ()Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyzed: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable___;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY): 03-13-91
Laboratory Sample Number 1647
Sample Location (be specific): Citrus Park Wells 1&2; (2) New; need location Salt Springs Well # 1 (main)
Sample Type (check all applicable):
( )Check ( )Regular Distribution X Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
X Raw X Well ( )Resampl
( )Special
Sampler Name, Title Phone: Mark Marchi - Operator
904 - 567-1265

**ANALYSIS INFORMATION**
Extraction Date ___/___/___
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTED: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable___;

I do HEREBY CERTIFY that all data submitted are correct.

Signature:_____

Name Dr Jefferson S Flowers

Title Technical Director

Laboratory Flowers Chemical Laboratories,Inc.

Date 4/12/91

Mail Results to the Appropriate DER or ACPHU Office:
_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 06/01/8 () Satisfactory () Unsatisfactory

Volatile Organic Analysis
17-550.310(2)(d)
(PWS029)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 16477 | .00002 | <.000005 | EPA504.1 | .000005 | 4/11/91 |
| 2969 | Para-dichlorobenzene | 16477 | .075 | <0.001 | EPA502.2 | 0.001 | 4/11/91 |
| 2976 | Vinyl chloride | 16477 | 0.001 | <0.001 | EPA502.2 | 0.001 | 4/11/91 |
| 2977 | 1,1-dichloroethene | 16477 | 0.007 | <0.001 | EPA502.2 | 0.001 | 4/11/91 |
| 2980 | 1,2-dichloroethane | 16477 | 0.003 | <0.001 | EPA502.2 | 0.001 | 4/11/91 |
| 2981 | 1,1,1-trichloroethane | 16477 | 0.2 | <0.001 | EPA502.2 | 0.001 | 4/11/91 |
| 2982 | Carbon tetrachloride | 16477 | 0.003 | <0.001 | EPA502.2 | 0.001 | 4/11/91 |
| 2984 | Trichloroethene | 16477 | 0.003 | <0.001 | EPA502.2 | 0.001 | 4/11/91 |
| 2987 | Tetrachloroethene | 16477 | 0.003 | <0.001 | EPA502.2 | 0.001 | 4/11/91 |
| 2990 | Benzene | 16477 | 0.001 | <0.001 | EPA502.2 | 0.001 | 4/11/91 |

Comments:

**AQUA PURE WATER & SEWAGE SERVICE, INC.**
P.O. Box 621 • Silver Springs, Florida 32688
(904) 625-2822
FAX (904) 625-6638

System name: Salt Springs Back-Up Well (Forestry)
System PWS ID#: 3420408

**PUBLIC DRINKING WATER REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
System ID#: 3420408 System name: Salt Springs
System Type: (check one)
[X] Community [ ] Non-community [ ] Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Certification number: 83165
Parameter groups analyzed: Inorganic, Secondary Chemical, Turbidity, Microbiology

**SAMPLE INFORMATION**
Sample Date: 04/24/91 Sample Time: 1505
Laboratory Sample number: 9104240726
Sample Location: Back-Up Well / Forestry
Sample Type: (check all that apply)

| | | |
|---|---|---|
| [ ] Check | [ ] Regular Distribution | [ ] Composite |
| [ ] Clearance | [ ] Maximum Residence Time | [ ] Plant Tap |
| [X] Raw | [X] Well | [ ] Resample |
| [ ] Special | | |

Sampler Name, Title, and Phone: M.March / S.S. Utilities (904)-625-2822

**ANALYSIS INFORMATION**
Laboratory Contact: William M. "Wally" Leslie
Resample Requested: (check one) [ ] YES [X] NO
Analyses Submitted: (check all that apply)

| | | |
|---|---|---|
| [ ] Turbidity | [ ] Inorganic | [ ] Trihalomethane |
| [ ] Volatile Organic | [ ] Organic Chemical | |
| [X] Secondary Chemical | [ ] Radiological | |
| [ ] Unregulated Organic Purgable | | |
| [ ] Unregulated Organic Pesticide | | |
| [ ] Unregulated Base Neutral Extractable | | |
| [ ] Unregulated Acid Extractable | | |

I do HEREBY CERTIFY that all data submitted are correct.

Lisa K. Saupp

William M. Leslie or Lisa K. Saupp
Lab Director Chemist
AQUA PURE WATER and SEWAGE SERVICE, INC.

DER/ACPHU Reviewing Official: _____

Sample Interpretation: [ ] Satisfactory [ ] Unsatisfactory

**AQUA PURE WATER & SEWAGE SERVICE, INC.**
P.O. Box 621 • Silver Springs, Florida 32688

(904) 625-2822
FAX (904) 625-5635

System name: Salt Springs Back-Up Well (Forestry)
System PWS ID#: 3420408

**SECONDARY ANALYSIS**
(PWS031)

| Cont ID | PARAMETER | Sample Number | Analysis Result mg/l | Method (CODE) | Det.Lt. Used mg/l | Analysis Date |
|---|---|---|---|---|---|---|
| 1027 | **Hydrogen Sulfide** | 9104240726 | <0.01 | 427C | 0.01 | |

Respectfully submitted by: Lisa K. Saupp
W.M. "Wally" Leslie Lab Director
or Lisa K. Saupp Chemist

DATE: 04/26/91

AQUA PURE WATER & SEWAGE SERVICE, INC.
P.O. Box 621 • Silver Springs, Florida 32688
(904) 625-2822
FAX (904) 625-6638

System name: Salt Springs Subdivision Page 1 of 2
System PWS ID#: 3420408

**PUBLIC DRINKING WATER REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
System ID#: 3420408 System name: Salt Springs S/D
System Type: (check one)
[X] Community [ ] Non-community [ ] Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Certification number: 82166
Parameter groups analyzed: Inorganic, Secondary Chemical, Turbidity, Microbiology
Subcontracted Labs and certifiction numbers:

**SAMPLE INFORMATION**
Sample Date: 04/09/91 Sample Time: 1130
Laboratory Sample number: 9104090625
Sample Location:
Sample Type: (check all that apply)
[ ] Check [X] Regular Distribution [ ] Composite
[ ] Clearance [ ] Maximum Residence Time [ ] Plant Tap
[ ] Raw [ ] Well [ ] Resample
[ ] Special

Sampler Name, Title, and Phone: David Connor/S.S.Utilities (904)-625-2822

**ANALYSIS INFORMATION**
Laboratory Contact: William M. "Wally" Leslie
Resample Requested: (check one) [ ] YES [X] NO
Analyses Submitted: (check all that apply)
[ ] Turbidity [ ] Inorganic [ ] Trihalomethane
[ ] Volatile Organic [ ] Organic Chemical
[X] Secondary Chemical [ ] Radiological
[ ] Unregulated Organic Purgable
[ ] Unregulated Organic Pesticide
[ ] Unregulated Base Neutral Extractable
[ ] Unregulated Acid Extractable

I do HEREBY CERTIFY that all data submitted are correct.

Lisa K Saupp

William M. Leslie or Lisa K. Saupp
Lab Director Chemist
**AQUA PURE WATER and SEWAGE SERVICE, INC.**

DER/ADPHU Reviewing Official:

Sample Interpretation: [ ] Satisfactory [ ] Unsatisfactory

AQUA PURE WATER & SEWAGE SERVICE, INC.
P.O. Box 621 • Silver Springs, Florida 32688
(904) 625-2822
FAX (904) 625-6638

System name: Salt Springs Subdivision Page 2 of 2
System PWS ID#: 3420408

**SECONDARY ANALYSIS**
(PWS031)

| Contam. ID | PARAMETER | Sample Number | Analysis Result mg/l | Method (CODE) | Det.Lt. Used mg/l |
|---|---|---|---|---|---|
| 1920 | **Odor (TON)** | 9104090625 | <1 TON | 207 | 1 TON |

Comments : Recheck # 1

Respectfully submitted by: Lisa K Saupp
W.M. "Wally" Leslie Lab Director
or Lisa K. Saupp Chemist

DATE: 04/12/91

**AQUA PURE WATER & SEWAGE SERVICE, INC.**
P.O. Box 621 • Silver Springs, Florida 32688
(904) 625-2822
FAX (904) 625-6638

System name: Salt Springs Subdivision Page 1 of 2
System PWS ID#: 3420408

**PUBLIC DRINKING WATER REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
System ID#: 3420408 System name: Salt Springs S/D
System Type: (check one)
[X] Community [ ] Non-community [ ] Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Certification number: 83166
Parameter groups analyzed: Inorganic, Secondary Chemical, Turbidity, Microbiology
Subcontracted Labs and certifiction numbers:

**SAMPLE INFORMATION**
Sample Date: 04/11/91 Sample Time: 1000
Laboratory Sample number: 910411065[illegible]
Sample Location: 1 st Tap on distribution system
Sample Type: (check all that apply)
[ ] Check [X] Regular Distribution [ ] Composite
[ ] Clearance [ ] Maximum Residence Time [ ] Plant Tap
[ ] Raw [ ] Well [ ] Resample
[ ] Special

Sampler Name, Title, and Phone: David Connor S.S.A. [illegible]
(904)-625-2822

**ANALYSIS INFORMATION**
Laboratory Contact: William M. "Wally" Leslie
Resample Requested: (check one) [ ] YES [X] NO
Analyses Submitted: (check all that apply)
[ ] Turbidity [ ] Inorganic [ ] Trihalomethane
[ ] Volatile Organic [ ] Organic Chemical
[X] Secondary Chemical [ ] Radiological
[ ] Unregulated Organic Purgable
[ ] Unregulated Organic Pesticide
[ ] Unregulated Base Neutral Extractable
[ ] Unregulated Acid Extractable

I do HEREBY CERTIFY that all data submitted are correct.

Lisa K. Saupp

William M. Leslie or Lisa K. Saupp
Lab Director Chemist
**AQUA PURE WATER and SEWAGE SERVICE, INC.**

DEF/ACPHU Reviewing Official:

Sample Interpretation: [ ] Satisfactory [ ] Unsatisfactory

**AQUA PURE WATER & SEWAGE SERVICE, INC.**
P.O. Box 621 • Silver Springs, Florida 32688
(904) 625-2822
FAX (904) 625-6638

System name: Salt Springs Subdivision Page 2 of 2
System PWS ID#: 3420408

## SECONDARY ANALYSIS
(PWS031)

| Param. ID | PARAMETER | Sample Number | Analysis Result mg/l | Method (CODE) | Det. Limit mg/l |
|---|---|---|---|---|---|
| 1920 | **Odor (TON)** | 3104110655 | <1 TON | 207 | 1 TON |

Comments : Recheck # 2

Respectfully submitted by: Lisa K Saupp
Mail Code: Leslie Saupp, Lab Director/Chemist

DATE: 4/27/95

**AQUA PURE WATER & SEWAGE SERVICE, INC.**
P.O. Box 621 • Silver Springs, Florida 32688
(904) 625-2822
FAX (904) 625-6638

System name: Salt Springs Subdivision Page 1 of 2
System PWS ID#: 3420408

**PUBLIC DRINKING WATER REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
System ID#: 3420408 System name: Salt Springs S/D
System Type: (check one)
[X] Community [ ] Non-community [ ] Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Certification number: 82166
Parameter groups analyzed: Inorganic, Secondary Chemi..., Turbidity, Microbiology
Subcontracted Labs and certifiction numbers:

**SAMPLE INFORMATION**
Sample Date: 04/12/91 Sample Time: 1030
Laboratory Sample number: 9104120650
Sample Location: 1 st Tap on distribution system
Sample Type: (check all that apply)
[ ] Check [X] Regular Distribution [ ] Composite
[ ] Clearance [ ] Maximum Residence Time [ ] Plant Tap
[ ] Raw [ ] Well [ ] Resample
[ ] Special

Sampler Name, Title, and Phone: David Connor/S.S.Utilities (904)-625-2822

**ANALYSIS INFORMATION**
Laboratory Contact: William M. "Wally" Leslie
Resample Requested: (check one) [ ] YES [X] NO
Analyses Submitted: (check all that apply)
[ ] Turbidity [ ] Inorganic [ ] Trihalomethane
[ ] Volatile Organic [ ] Organic Chemical
[X] Secondary Chemical [ ] Radiological
[ ] Unregulated Organic Purgable
[ ] Unregulated Organic Pesticide
[ ] Unregulated Base Neutral Extractable
[ ] Unregulated Acid Extractable

I do HEREBY CERTIFY that all data submitted are correct.

Lisa K. Saupp

William M. Leslie or Lisa K. Saupp
Lab Director Chemist
**AQUA PURE WATER and SEWAGE SERVICE, INC.**

DER/ACPHU Reviewing Official:

Sample Interpretation: [ ] Satisfactory [ ] Unsatisfactory

AQUA PURE WATER & SEWAGE SERVICE, INC.
P.O. Box 621 • Silver Springs, Florida 32688

(904) 625-2822
FAX (904) 625-6638

System name: Salt Springs Subdivision  Page 2 of 2
System PWS ID#: 3420408

## SECONDARY ANALYSIS
(PWS031)

| Contam. ID | PARAMETER | Sample Number | Analysis Result mg/l | Method (CODE) | Det.Lt. Used mg/l |
|---|---|---|---|---|---|
| 1920 | Odor (TON) | 9104120660 | <1 TON | 207 | 1 TON |

Comments : Recheck # 3

Respectfully submitted by: Lisa K Saupp
W.M. "Wally" Leslie Lab Director
or Lisa K. Saupp Chemist

DATE: 04/17/91

V File

3rd Qtr 90

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 3420408
Public Water System Name Salt Springs
Public Water System Type (check one):
(X)Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyzed Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY): 06-14-91
Laboratory Sample Number 17181
Sample Location (be specific): Salt Springs Wells 1 main Well 2 Forestry
Sample Type (check all applicable):
( )Check ( )Regular Distribution (X)Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
(X)Raw (X)Well ( )Resample
( )Special_____
Sampler Name, Title Phone: David CONNOR OPERATOR
904-347-1265

**ANALYSIS INFORMATION**
Extraction Date ___/___/____
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTED Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature:_____

Name Dr. Jefferson S Flowers

Title Technical Director

Laboratory Flowers Chemical Laboratories,Inc.

Date 6/19/91

Mail Results to the Appropriate DER or ACPHU Office:
_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 06/01/9 () Satisfactory () Unsatisfactory

Volatile Organic Analysis
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 17181 | .00002 | <.000005 | EPA504.1 | .000005 | 6/18/91 |
| 2969 | Para-dichlorobenzene | 17181 | .075 | <0.001 | EPA502.2 | 0.001 | 6/18/91 |
| 2976 | Vinyl chloride | 17181 | 0.001 | <0.001 | EPA502.2 | 0.001 | 6/18/91 |
| 2977 | 1,1-dichloroethene | 17181 | 0.007 | <0.001 | EPA502.2 | 0.001 | 6/18/91 |
| 2980 | 1,2-dichloroethane | 17181 | 0.003 | <0.001 | EPA502.2 | 0.001 | 6/18/91 |
| 2981 | 1,1,1-trichloroethane | 17181 | 0.2 | <0.001 | EPA502.2 | 0.001 | 6/18/91 |
| 2982 | Carbon tetrachloride | 17181 | 0.003 | <0.001 | EPA502.2 | 0.001 | 6/18/91 |
| 2984 | Trichloroethene | 17181 | 0.003 | <0.001 | EPA502.2 | 0.001 | 6/18/91 |
| 2987 | Tetrachloroethene | 17181 | 0.003 | <0.001 | EPA502.2 | 0.001 | 6/18/91 |
| 2990 | Benzene | 17181 | 0.001 | <0.001 | EPA502.2 | 0.001 | 6/18/91 |

Comments:

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU/Marion Oaks
PO Box 11179
Ocala,FL 32673

Well #1 MAIN

For: SALT SPRG.VILL.
Date Received: Aug19 1991

Date Reported: Aug27 1991
PO Number: 891029
PO Number Salt Springs
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

Lab Number : 17564

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 17564 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 97.7 | 1.07 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 86.5 | 2.43 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 92.6 | .750 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 92.6 | .750 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 95.1 | .088 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 99.5 | .075 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 97.4 | 2.00 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 97.4 | 2.72 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 96.8 | .441 | <0.001 |
| Benzene | mg/L | 0.001 | 97.5 | .122 | <0.001 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



Jefferson S. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984
FAX (407) 260-6110

✓ Ciona Dorgan

4th Qtr
VO

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 3420408
Public Water System Name SALT SPRINGS
Public Water System Type (check one):
(X)Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyz: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable_X_; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY): 08-19-91
Laboratory Sample Number 17564
Sample Location (be specific): MAIN Well #1
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
( )Raw (X)Well ( )Resample
( )Special_____
Sampler Name, Title Phone: DAVID CONNOR OPERATOR
904-347-1265

**ANALYSIS INFORMATION**
Extraction Date _____
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTED Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature:

Name Dr. Jefferson S Flowers

Title Technical Director

Laboratory Flowers Chemical Laboratories,Inc.

Date 8/20/91

Mail Results to the Appropriate DER or ACPHU Office:

_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 06/01/( () Satisfactory () Unsatisfactory

Volatile Organic Analysis
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L) | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 17564 | .00002 | <0.000005 | EPA504.1 | .000005 | 8/19/91 |
| 2969 | Para-dichlorobenzene | 17564 | .075 | <0.001 | EPA502.2 | 0.001 | 8/19/91 |
| 2976 | Vinyl chloride | 17564 | 0.001 | <0.001 | EPA502.2 | 0.001 | 8/19/91 |
| 2977 | 1,1-dichloroethene | 17564 | 0.007 | <0.001 | EPA502.2 | 0.001 | 8/19/91 |
| 2980 | 1,2-dichloroethane | 17564 | 0.003 | <0.001 | EPA502.2 | 0.001 | 8/19/91 |
| 2981 | 1,1,1-trichloroethane | 17564 | 0.2 | <0.001 | EPA502.2 | 0.001 | 8/19/91 |
| 2982 | Carbon tetrachloride | 17564 | 0.003 | <0.001 | EPA502.2 | 0.001 | 8/19/91 |
| 2984 | Trichloroethene | 17564 | 0.003 | <0.001 | EPA502.2 | 0.001 | 8/19/91 |
| 2987 | Tetrachloroethene | 17564 | 0.003 | <0.001 | EPA502.2 | 0.001 | 8/19/91 |
| 2990 | Benzene | 17564 | 0.001 | <0.001 | EPA502.2 | 0.001 | 8/19/91 |

Comments:

4TH QTR
VO

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 3420408
Public Water System Name SALT SPRINGS
Public Water System Type (check one):
(X)Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyzi Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable_X_; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable___;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY): 08-19-91
Laboratory Sample Number 17563
Sample Location (be specific): Forestry Well #2
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
(X)Raw (X)Well ( )Resample
( )Special___
Sampler Name, Title Phone: David Connor Operator
904-342-1265

**ANALYSIS INFORMATION**
Extraction Date _____
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTED Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable___;

I do HEREBY CERTIFY that all data submitted are correct.

Signature: _____

Name Dr. Jefferson S Flowers

Title Technical Director

Laboratory Flowers Chemical Laboratories,Inc.

Date 8/20/91

Mail Results to the Appropriate DER or ACPHU Office:
_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 06/01/8 () Satisfactory () Unsatisfactory

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU/Marion Oaks
PO Box 11179
Ocala,FL 32673

Date Reported: Aug27 1991
PO Number: B91029
PO Number Salt Springs
FDHRS Lab# : 83139
FDER Lab# : EB3018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

Well #2
For: SALT SPRG.FORESTRY
Date Received: Aug19 1991 Lab Number : 17563

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 17563 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 97.7 | 1.07 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 86.5 | 2.43 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 92.6 | .750 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 92.6 | .750 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 95.1 | .088 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 99.5 | .075 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 97.4 | 2.00 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 97.4 | 2.72 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 96.8 | .441 | <0.001 |
| Benzene | mg/L | 0.001 | 97.5 | .122 | <0.001 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson B. Flowers, Ph.D.
Technical Director



Jefferson L. Flowers, Ph.D.
Jefferson B. Flowers, Ph.D.
481 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984
FAX (407) 260-6110

Volatile Organic Analysis
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L) | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 17563 | .00002 | <0.000005 | EPA504.1 | .000005 | 8/19/91 |
| 2969 | Para-dichlorobenzene | 17563 | .075 | <0.001 | EPA502.2 | 0.001 | 8/19/91 |
| 2976 | Vinyl chloride | 17563 | 0.001 | <0.001 | EPA502.2 | 0.001 | 8/19/91 |
| 2977 | 1,1-dichloroethene | 17563 | 0.007 | <0.001 | EPA502.2 | 0.001 | 8/19/91 |
| 2980 | 1,2-dichloroethane | 17563 | 0.003 | <0.001 | EPA502.2 | 0.001 | 8/19/91 |
| 2981 | 1,1,1-trichloroethane | 17563 | 0.2 | <0.001 | EPA502.2 | 0.001 | 8/19/91 |
| 2982 | Carbon tetrachloride | 17563 | 0.003 | <0.001 | EPA502.2 | 0.001 | 8/19/91 |
| 2984 | Trichloroethene | 17563 | 0.003 | <0.001 | EPA502.2 | 0.001 | 8/19/91 |
| 2987 | Tetrachloroethene | 17563 | 0.003 | <0.001 | EPA502.2 | 0.001 | 8/19/91 |
| 2990 | Benzene | 17563 | 0.001 | <0.001 | EPA502.2 | 0.001 | 8/19/91 |

Comments:

[illegible] copy of what I mailed to DER. Sorry about this! Lisa

# AQUA PURE

## WATER & SEWAGE SERVICE, INC.

P. O. Box 621 • Silver Springs, Florida 32688

Telephone (904) 625-2822
Fax (904) 625-6638

Aqua Pure ★ 12-16-91

Lab results mistakenly omitted from original report to DER. Results obtained from laboratory log-book and reported. Lisa Lampp 12-16-91 Aqua Pure (Sorry for the inconvenience.)

**LAB USE ONLY**

| DATE COLLECTED | TIME | COUNTY | COLLECTOR | INITIALS | TIME RECD | DATE TESTED |
|---|---|---|---|---|---|---|
| 12-9-91 | 10:00 AM | Marion | Mark Marcell | | 2:25 PM | 12-9-91 |

TYPE OF SUPPLY: CITY, TOWN X | S/D | TRLR PK | REST. | SCHOOL | BOTTLED | MOTEL | REST | BARB | POOL | HOME | OTHER

NAME OF S/D OR LOCALITY BEING SAMPLED: Salt Springs

NAME OR LOCATION OF WATER PLANT: Salt Springs SR 19

TYPE OF SAMPLE: ROUTINE X | RE-CHECK | MAIN CLEARANCE | WELL SURVEY | OTHER

LAB: AQUA PURE WATER LAB 963168

SYSTEM I.D. No. 7417045 8

NAME AND MAILING ADDRESS OF PERSON/FIRM TO RECEIVE REPORT

PHONE # 2417265

[S.S.U. - MARION OAKS]

12-16-91

| LAB NO. | CELL NO. | SAMPLING POINT | APPEARANCE | RESID. | PH | M.F. /100 ML | M.P.N. /100 ML | CONFIRMATION E. COLI | CONFIRMATION TOTAL COLIFORM |
|---|---|---|---|---|---|---|---|---|---|
| 998 | 1 | Well | clear | 0.0 | 7.3 | — | A | | |
| 999 | 2 | H.S.T. | clear | 1.0 | 7.2 | | A | | |
| 1000 | 3 | USDA - Livestock | clear | 0.5 | 7.1 | | A | | |
| 1001 | 4 | USDA - Boat Ramp | clear | 0.6 | 7.1 | | A | | |

WATER BACTERIOLOGY

ANALYST:

AT TIME SAMPLE TAKEN:
- ☐ SATISFACTORY
- ☐ UNSATISFACTORY
- ☐

☐ RE-SUBMIT

BY: _____

# Samira Villas - 1118

**Marion County (SSU)**

**Water**

**- 1992 FPSC Filing -**

# Samira Villas

## Chemical Analyses

---

**The most recent chemical analyses for the water system conducted by a certified laboratory covering the inorganic, organic, turbidity, microbiological, radionuclide, secondary and unregulated contaminants.**

| Chemical Analysis | Date Taken |
|---|---|
| Inorganic | 8/90 |
| Organic | 8/90 |
| Volatile Organic Chemicals | 8/90 |
| | 12/90 |
| | 3/91 |
| | 6/91 |
| Turbidity | 8/90 |
| Microbiological | 12/91 |
| Radionuclide | 8/90 |
| Secondary Contaminants | 8/90 |
| Unregulated Contaminants | 8/90 |

**AQUA PURE WATER & SEWAGE SERVICE, INC.**
P.O. Box 621 • Silver Springs, Florida 32688
(904) 625-2822
FAX (904) 625-8638

Complete Chemical including 1st qtr VO & Unreg Cont,

System name: Samira Village
System PWS ID#: 6424651



**PUBLIC DRINKING WATER REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
System ID#: 6424651 System name: Samira Village

System Type: (check one)
[X] Community [ ] Non-community [ ] Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Certification number: 83166
Parameter groups analyzed: Inorganic, Secondary Chemical, Turbidity, Microbiology
Subcontracted Labs and certifiction numbers:
ABC Research 82135 and EL120
HRS Office of Radiation Control 13186

**SAMPLE INFORMATION**
Sample Date: 8/09/90 Sample Time: 0800
Laboratory Sample number: 9008091179
Sample Location: Well & Tap behind bank
Sample Type: (check all that apply)

| | | |
|---|---|---|
| [ ] Check | [X] Regular Distribution | [X] Composite |
| [ ] Clearance | [ ] Maximum Residence Time | [ ] Plant Tap |
| [X] Raw | [X] Well | [ ] Resample |
| [ ] Special | | |

Sampler Name, Title, and Phone: David Connors of Southern States Ut's. 904-689-6019

**ANALYSIS INFORMATION**
Laboratory Contact: William M. "Wally" Leslie
Resample Requested: (check one) [ ] YES [X] NO
Analyses Submitted: (check all that apply)

| | | |
|---|---|---|
| [X] Turbidity | [X] Inorganic | [ ] Trihalomethane |
| [X] Volatile Organic | [X] Organic Chemical | |
| [X] Secondary Chemical | [X] Radiological | |

[X] Unregulated Organic Purgable
[X] Unregulated Organic Pesticide
[X] Unregulated Base Neutral Extractable
[X] Unregulated Acid Extractable

I do HEREBY CERTIFY that all data submitted are correct.

Lisa K. Saupp

William M. Leslie or Lisa K. Saupp
Lab Director Chemist
**AQUA PURE WATER and SEWAGE SERVICE, INC.**

DER/ACPHU Reviewing Official: _____

Sample Interpretation: [ ] Satisfactory [ ] Unsatisfactory

**AQUA PURE WATER & SEWAGE SERVICE, INC.**
P.O. Box 621 • Silver Springs, Florida 32688
(904) 625-2822
FAX(904) 625-663

System name: Samira Village
System PWS ID#: 6424631



## TURBIDITY ANALYSIS
(PWS026)

| Contam. ID | PARAMETER | Sample Number | Analysis Result NTU | Method (CODE) | Det.Lt. Used NTU |
|---|---|---|---|---|---|
| 0100 | Turbidity | 9008091179 | 0.70 | 214A | 0.01 |

Comments: _____

## INORGANIC ANALYSIS
(PWS030)

| Contam. ID | PARAMETER | Sample Number | Analysis Result mg/l | Method (CODE) | Det.Lt. Used mg/l |
|---|---|---|---|---|---|
| 1005 | Arsenic | 9008091179 | <0.002 | 304 | 0.002 |
| 1010 | Barium | | <0.020 | 304 | 0.020 |
| 1015 | Cadmium | | <0.002 | 304 | 0.002 |
| 1020 | Chromium | | <0.002 | 304 | 0.010 |
| 1025 | Fluoride | | 0.14 | 413B | 0.05 |
| 1030 | Lead | | <0.005 | 304 | 0.005 |
| 1035 | Mercury | | <0.0002 | I-3462-84 | 0.0002 |
| 1040 | Nitrate (N) | | <0.10 | 300.0 | 0.10 |
| 1045 | Selenium | | <0.002 | 304 | 0.002 |
| 1050 | Silver | | <0.002 | 304 | 0.002 |
| 1052 | Sodium | | 2.72 | 303A | 1.00 |

Comments: _____

**AQUA PURE WATER & SEWAGE SERVICE, INC.**
P.O. Box 621 • Silver Springs, Florida 32688
(904) 625-2822
FAX (904) 625-663

System name: Samira Village
System PWS ID#: 6424651



## VOLATILE ORGANIC ANALYSIS
(PWS02B)

| Contam. ID | PARAMETER | Sample Number | Analysis Result mg/l | Method (CODE) | Det.Lt. Used mg/l |
|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 9008091179 | <0.00002 | EPA 504 | 0.00002 |
| 2969 | p-dichloro benzene | | <0.0005 | EPA 524 | 0.0005 |
| 2976 | Vinyl chloride | | <0.0005 | EPA 524 | 0.0005 |
| 2977 | 1,1-dichloro ethene | | <0.0005 | EPA 524 | 0.0005 |
| 2980 | 1,2-dichloro ethane | | <0.0005 | EPA 524 | 0.0005 |
| 2981 | 1,1,1-tri chloroethane | | <0.0005 | EPA 524 | 0.0005 |
| 2982 | Carbon Tetrachloride | | <0.0005 | EPA 524 | 0.0005 |
| 2984 | Trichloro ethene | | <0.0005 | EPA 524 | 0.0005 |
| 2987 | Tetrachloro ethene | | <0.0005 | EPA 524 | 0.0005 |
| 2990 | Benzene | | <0.0005 | EPA 524 | 0.0005 |

Comments: These analyses were performed by ABC Research Laboratory # 82135 ; EPA 504 extraction date = 8/15/90

AQUA PURE WATER & SEWAGE SERVICE, INC.
P.O. Box 621 • Silver Springs, Florida 32688
(904) 625-2822
FAX (904) 625-6638

System name: Samira Village
System PWS ID#: 6424651



## ORGANIC CHEMICAL ANALYSIS
(PWS028)

| Contam. ID | PARAMETER | Sample Number | Analysis Result mg/l | Method (CODE) | Det.Lt. Used mg/l |
|---|---|---|---|---|---|
| 2005 | Endrin | 9008091179 | <0.0002 | EPA 505 | 0.0002 |
| 2010 | Lindane | | <0.0002 | EPA 505 | 0.0002 |
| 2015 | Methoxychlor | | <0.001 | EPA 505 | 0.001 |
| 2020 | Toxaphene | | <0.005 | EPA 505 | 0.005 |
| 2105 | 2,4-D | | <0.001 | EPA 615 | 0.001 |
| 2110 | 2,4,5-TP (Silvex) | | <0.001 | EPA 615 | 0.001 |

Comments: These analyses were performed by ABC Research Lab # 82135 ; EPA 505 extraction date = 8/15/90

AQUA PURE WATER & SEWAGE SERVICE, INC.
P.O. Box 621 • Silver Springs, Florida 32688
(904) 625-2822
FAX (904) 625-663

System name: Samira Village
System PWS ID#: 6424651



## SECONDARY ANALYSIS
(PWS031)

| Contam. ID | PARAMETER | Sample Number | Analysis Result mg/l | Method (CODE) | Det.Lt. Used mg/l |
|---|---|---|---|---|---|
| 1016 | Calcium | 9008091179 | 51.5 | 303A | 1.00 |
| 1017 | Chloride | | 58.8 | 300.0 | 1.00 |
| 1019 | Carbonate (as CaCO3) | | 0.89 | 406C | 0.01 |
| 1021 | Hydroxide (as CaCO3) | | 0.04 | 406C | 0.01 |
| 1022 | Copper | | <0.01 | 303A | 0.01 |
| 1023 | Bicarbonate (as CaCO3) | | 108.6 | 406C | 0.01 |
| 1026 | Bicarbonate (as HCO3) | | 108.6 | 203 | 0.01 |
| 1027 | Hydrogen Sulfide | | <0.01 | 427C | 0.01 |
| 1028 | Iron | | <0.01 | 303A | 0.01 |
| 1031 | Magnesium | | 5.38 | 303A | 0.10 |
| 1032 | Manganese | | <0.01 | 303A | 0.01 |
| 1055 | Sulfate | | 39.2 | 300.0 | 1.00 |
| 1095 | Zinc | | 0.13 | 303A | 0.01 |
| 1901 | Carbon Dioxide | | 2.49 | 406C | 0.01 |
| 1905 | Color (CU) | | < 1 CU | 204A | 1 CU |
| 1915 | Total Hardness | | 150.8 | 314A | 1.00 |
| 1917 | NCH (as CaCO3) | | 41.3 | 314 | 1.00 |
| 1920 | Odor (TON) | | < 1 TON | 207 | 1 TON |
| 1924 | Field pH | | 7.80 | 423 | 0.01 Unit |

AQUA PURE WATER & SEWAGE SERVICE, INC.
P.O. Box 621 • Silver Springs, Florida 32688
(904) 625-2822
FAX-(904) 625-663

System name: Samira Village
System PWS ID#: 6424651



## SECONDARY ANALYSIS CONTINUED
(PWS031)

| Contam. ID | PARAMETER | Sample Number | Analysis Result mg/l | Method (CODE) | Det.Lt. Used mg/l |
|---|---|---|---|---|---|
| 1925 | Lab pH | 9008091179 | 7.94 | 423 | 0.01 Unit |
| 1926 | Field Conductivity | | 276 | 205 | 1 umhos/cm |
| 1927 | Total Alkalinity | | 109.5 | 403 | 0.50 |
| 1930 | TDS | | 204 | 209B | 2.00 |
| 1996 | Temperature | | 24.4 | 212 | 0.10 |
| 1997 | Langlier Index (pHs) | | 7.78 | 203 | 0.01 |
| 1998 | Saturation Index (Corr. pH-pHs) | | 0.16 | 203 | 0.01 |
| 1999 | Stability Index (2pHs-pH) | | 7.62 | 203 | 0.01 |
| 2909 | Foaming Agents | | <0.10 | 512B | 0.01 |
| 9996 | Field DO | | 5.5 | 421F | 0.10 |
| 9997 | Field Chlorine | | | 408D | 0.10 |

INTERPRETATION: [X] Stable [ ] Scale-Forming [ ] Corrosive

AQUA PURE WATER & SEWAGE SERVICE, INC.
P.O. Box 621 • Silver Springs, Florida 32688
(904) 625-2822
FAX (904) 625-6638

System name: Samira Village
System PWS ID#: 6424651



## RADIOLOGICAL ANALYSIS
(PWS033)

| Contam. ID | PARAMETER | Sample Number | Analysis Result pCi/l | Analysis Error | Analysis Date |
|---|---|---|---|---|---|
| 4000 | Gross Alpha | 9008091179 | 0.0 | ±1.0 | 08-24-90 |

Comments: This analysis was performed by HRS Safe Drinking Water Laboratory # 13186

AQUA PURE WATER & SEWAGE SERVICE, INC.
P.O. Box 821 • Silver Springs, Florida 32688
(904) 625-2822
FAX(904) 625-5635

System name: Samira Village
System PWS ID#: 6424651



## UNREGULATED ORGANIC PURGEABLE ANALYSIS
(PWS034)

| Contam. ID | PARAMETER | Sample Number | Analysis Result mg/l | Method (CODE) | Det.Lt. Used mg/l |
|---|---|---|---|---|---|
| 2210 | Chloromethane | 9008091179 | <0.0005 | EPA 524 | 0.0005 |
| 2212 | Dichlorofluoro methane | | <0.0005 | EPA 524 | 0.0005 |
| 2214 | Bromomethane | | <0.0005 | EPA 524 | 0.0005 |
| 2216 | Chloroethane | | <0.0005 | EPA 524 | 0.0005 |
| 2218 | Trichloro fluoromethane | | <0.0005 | EPA 524 | 0.0005 |
| 2224 | trans-1,3-dichloropropene | | <0.0005 | EPA 524 | 0.0005 |
| 2228 | cis-1,3-dichloropropene | | <0.0005 | EPA 524 | 0.0005 |
| 2251 | Methyl tert-butyl-ether | | <0.005 | EPA 524 | 0.005 |
| 2380 | cis-1,2-dichloroethene | | <0.0005 | EPA 524 | 0.0005 |
| 2408 | Dibromomethane | | <0.0005 | EPA 524 | 0.0005 |
| 2410 | 1,1-Dichloro propene | | <0.0005 | EPA 524 | 0.0005 |
| 2412 | 1,3-dichloro propane | | <0.0005 | EPA 524 | 0.0005 |
| 2414 | Trichloro propane | | <0.0005 | EPA 524 | 0.0005 |
| 2416 | 2,2-dichloro | | <0.0005 | EPA 524 | 0.0005 |
| 2931 | 1,2-Dibromo-3-chloropropane | | <0.0005 | EPA 524 | 0.0005 |
| 2941 | Chloroform | | <0.0005 | EPA 524 | 0.0005 |
| 2942 | Bromoform | | <0.0005 | EPA 524 | 0.0005 |

AQUA PURE WATER & SEWAGE SERVICE, INC.
P.O. Box 621 • Silver Springs, Florida 32688
(904) 625-2822
FAX(904) 625-663(

System name: Samira Village
System PWS ID#: 6424651



UNREGULATED ORGANIC PURGEABLE ANALYSIS CONTINUED
(PWS034)

| Contam. ID | PARAMETER | Sample Number | Analysis Result mg/l | Method (CODE) | Det.Lt. Used mg/l |
|---|---|---|---|---|---|
| 2943 | Bromodichloro methane | 9008091179 | <0.0005 | EPA 524 | 0.0005 |
| 2944 | Dibromochloro methane | | <0.0005 | EPA 524 | 0.0005 |
| 2962 | p-Xylene | | <0.0005 | EPA 524 | 0.0005 |
| 2964 | Methylene Chloride | | <0.005 | EPA 524 | 0.005 |
| 2965 | 2-Chloro toluene | | <0.0005 | EPA 524 | 0.0005 |
| 2966 | 4-Chloro toluene | | <0.0005 | EPA 524 | 0.0005 |
| 2967 | m-Dichlro benzene | | <0.0005 | EPA 524 | 0.0005 |
| 2968 | o-Dichloro benzene | | <0.0005 | EPA 524 | 0.0005 |
| 2978 | 1,1-Dichloro ethane | | <0.0005 | EPA 524 | 0.0005 |
| 2979 | trans-1,2-dichloroethene | | <0.0005 | EPA 524 | 0.0005 |
| 2983 | 1,2-dichloro propane | | <0.0005 | EPA 524 | 0.0005 |
| 2985 | 1,1,2-trichloro ethane | | <0.0005 | EPA 524 | 0.0005 |
| 2986 | 1,1,1,2-Tetra chloroethane | | <0.0005 | EPA 524 | 0.0005 |
| 2988 | 1,1,2,2-Tetra chloroethane | | <0.0005 | EPA 524 | 0.0005 |
| 2989 | Chlorobenzene | | <0.0005 | EPA 524 | 0.0005 |
| 2991 | Toluene | | <0.001 | EPA 524 | 0.001 |

AQUA PURE WATER & SEWAGE SERVICE, INC.
P.O. Box 621 • Silver Springs, Florida 32688
(904) 625-2822
FAX (904) 625-663

System name: Samira Village
System PWS ID#: 6424651



UNREGULATED ORGANIC PURGEABLE ANALYSIS CONTINUED
(PWS034)

| Contam. ID | PARAMETER | Sample Number | Analysis Result mg/l | Method (CODE) | Det.Lt. Used mg/l |
|---|---|---|---|---|---|
| 2992 | Ethyl benzene | 9008091179 | <0.0005 | EPA 524 | 0.0005 |
| 2993 | Bromobenzene | | <0.0005 | EPA 524 | 0.0005 |
| 2995 | m-Xylene | | <0.0005 | EPA 524 | 0.0005 |
| 2996 | Styrene | | <0.0005 | EPA 524 | 0.0005 |
| 2997 | o-Xylene | | <0.0005 | EPA 524 | 0.0005 |

Comments: These analyses were performed by ABC Research Lab # 82135 .

AQUA PURE WATER & SEWAGE SERVICE, INC.
P.O. Box 621 • Silver Springs, Florida 32688
(904) 625-2822
FAX(904) 625-663E

System name: Samira Village
System PWS ID#: 6424651



## UNREGULATED ORGANIC PESTICIDE ANALYSIS
(PWS035)

| Contam. ID | PARAMETER | Sample Number | Analysis Result mg/l | Method (CODE) | Det.Lt. Used mg/l |
|---|---|---|---|---|---|
| 2031 | Dalapon | 9008091179 | <0.050 | EPA 515 | 0.050 |
| 2036 | Oxamyl (Vydate) | | <0.020 | EPA 531 | 0.020 |
| 2037 | Simazine | | <0.010 | EPA 505 | 0.010 |
| 2040 | Picloram | | <0.050 | EPA 515 | 0.050 |
| 2041 | Dinoseb | | <0.050 | EPA 515 | 0.050 |
| 2043 | Aldicarb Sulfoxide | | <0.020 | EPA 531 | 0.020 |
| 2044 | Aldicarb Sulfone | | <0.020 | EPA 531 | 0.020 |
| 2045 | Metolachlor | | <0.001 | EPA 505 | 0.001 |
| 2046 | Carbofuran | | <0.020 | EPA 531 | 0.020 |
| 2047 | Aldicarb | | <0.020 | EPA 531 | 0.020 |
| 2050 | Atrazine | | <0.010 | EPA 505 | 0.010 |
| 2051 | Alachlor (Lasso) | | <0.001 | EPA 505 | 0.001 |
| 2065 | Heptachlor | | <0.0001 | EPA 505 | 0.0001 |
| 2356 | Aldrin | | <0.0001 | EPA 505 | 0.0001 |
| 2364 | Dieldrin | | <0.0001 | EPA 505 | 0.0001 |
| 2440 | Dicamba (Banvel) | | <0.050 | EPA 515 | 0.050 |
| 2959 | Chlordane | | <0.001 | EPA 505 | 0.001 |
| 9114 | Pentachloro phenol | | <0.050 | EPA 515 | 0.050 |

Comments: These analyses were performed by ABC Research Lab # 82135 ; EPA 505 extraction date = 8/15/90 & EPA 515 extraction date = 8/14/90

AQUA PURE WATER & SEWAGE SERVICE, INC.
P.O. Box 621 • Silver Springs, Florida 32688
(904) 625-2822
FAX(904) 625-663

System name: Samira Village
System PWS ID#: 6424651



## UNREGULATED BASE NEUTRAL EXTRACTABLE ANALYSIS
(PWS035)

| Contam. ID | PARAMETER | Sample Number | Analysis Result mg/l | Method (CODE) | Det.Lt. Used mg/l |
|---|---|---|---|---|---|
| 2042 | Hexchloro cyclopentadiene | 9008091179 | <0.005 | EPA 625 | 0.005 |
| 2063 | (Dioxin) 2,3,7,8 tetra-chloro-dibenzo-p-dioxin | | Not Detected | EPA 625 | NO D.L. |
| 2262 | Isophorone | | <0.005 | EPA 625 | 0.005 |
| 2270 | 2,4-Dinitro toluene | | <0.005 | EPA 625 | 0.005 |
| 2282 | Dimethyl phthalate | | <0.010 | EPA 625 | 0.010 |
| 2284 | Diethyl phthalate | | <0.010 | EPA 625 | 0.010 |
| 2290 | Di-n-butyl phthalate | | <0.010 | EPA 625 | 0.010 |
| 2294 | Butylbenzyl phthalate | | <0.010 | EPA 625 | 0.010 |
| 2298 | Bis(2-ethylhexyl) phthalate | | <0.010 | EPA 625 | 0.010 |
| 2378 | 1,2,4-Tri chlorobenzene | | <0.005 | EPA 625 | 0.005 |
| 2388 | PCB-1016 | | <0.001 | EPA 505 | 0.001 |
| 2390 | PCB-1221 | | <0.010 | EPA 505 | 0.010 |
| 2392 | PCB-1232 | | <0.005 | EPA 505 | 0.005 |
| 2394 | PCB-1242 | | <0.001 | EPA 505 | 0.001 |
| 2396 | PCB-1248 | | <0.001 | EPA 505 | 0.001 |
| 2398 | PCB-1254 | | <0.001 | EPA 505 | 0.001 |
| 2400 | PCB-1260 | | <0.001 | EPA 505 | 0.001 |
| 9089 | Dioctyl phthalate | | <0.010 | EPA 625 | 0.010 |

AQUA PURE WATER & SEWAGE SERVICE, INC.
P.O. Box 621 • Silver Springs, Florida 32688
(904) 625-2822
FAX (904) 625-6638

System name: Samira Village
System PWS ID#: 6424651



## UNREGULATED BASE NEUTRAL EXTRACTABLE ANALYSIS CONTINUED
(PWS035)

Comments: These analyses were performed by ABC Research Lab # 82135 ; EPA 625 extraction date = 8/13/90

## UNREGULATED ACID EXTRACTABLE ANALYSIS
(PWS035)

| Contam. ID | PARAMETER | Sample Number | Analysis Result mg/l | Method (CODE) | Det.Lt. Used mg/l |
|---|---|---|---|---|---|
| 9108 | 2-Chlorophenol | 9008091179 | <0.010 | EPA 625 | 0.010 |
| 9112 | 2-Methyl-4,6-dinitrophenol | | <0.030 | EPA 625 | 0.030 |
| 9115 | Phenol | | <0.010 | EPA 625 | 0.010 |
| 9116 | 2,4,6-Trichlorophenol | | <0.010 | EPA 625 | 0.010 |

Comments: These analyses were performed by ABC Research Lab # 82135

Respectfully submitted by: Lisa K. Saupp
W.M. "Wally" Leslie Lab Director
or Lisa K. Saupp Chemist

Date: 9-12-90

2nd QTR. V.O.

**AQUA PURE WATER & SEWAGE SERVICE, INC.**
P.O. Box 621 • Silver Springs, Florida 32688
(904) 625-2822
FAX (904) 625-6638



System name: Samira Village
System PWS ID#: 6424651

**PUBLIC DRINKING WATER REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
System ID#: 6424651 System name: Samira Village

System Type: (check one)
[X] Community [ ] Non-community [ ] Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Certification number: 83166
Parameter groups analyzed: Inorganic, Secondary Chemical, Turbidity, Microbiology
Subcontracted Labs and certifiction numbers:
ABC Research 82135 and EL120

**SAMPLE INFORMATION**
Sample Date: 12/31/90 Sample Time: 1115
Laboratory Sample number: 9012312023
Sample Location: Well
Sample Type: (check all that apply)

| | | |
|---|---|---|
| [ ] Check | [ ] Regular Distribution | [ ] Composite |
| [ ] Clearance | [ ] Maximum Residence Time | [ ] Plant Tap |
| [X] Raw | [X] Well | [ ] Resample |
| [ ] Special | | |

Sampler Name, Title, and Phone: Mark March Operator (904) 625-1835

**ANALYSIS INFORMATION**
Laboratory Contact: William M. "Wally" Leslie
Resample Requested: (check one) [ ] YES [X] NO
Analyses Submitted: (check all that apply)

| | | |
|---|---|---|
| [ ] Turbidity | [ ] Inorganic | [ ] Trihalomethane |
| [X] Volatile Organic | [ ] Organic Chemical | |
| [ ] Secondary Chemical | [ ] Radiological | |
| [ ] Unregulated Organic Purgable | | |
| [ ] Unregulated Organic Pesticide | | |
| [ ] Unregulated Base Neutral Extractable | | |
| [ ] Unregulated Acid Extractable | | |

I do HEREBY CERTIFY that all data submitted are correct.

William M. Leslie or Lisa K. Saupp
Lab Director Chemist
**AQUA PURE WATER and SEWAGE SERVICE, INC.**

DER/ACPHU Reviewing Official: _____

Sample Interpretation: [ ] Satisfactory [ ] Unsatisfactory

AQUA PURE WATER & SEWAGE SERVICE, INC.
P.O. Box 621 • Silver Springs, Florida 32688
(904)625-2822
FAX (904) 625-6638

System name: Samira Village
System PWS ID#: 6424651



## VOLATILE ORGANIC ANALYSIS
(PWS028)

| Contam. ID | PARAMETER | Sample Number | Analysis Result mg/l | Method (CODE) | Det.Lt. Used mg/l |
|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 9012312023 | <0.00002 | EPA 504 | 0.00002 |
| 2969 | p-dichloro benzene | | <0.0005 | EPA 524 | 0.0005 |
| 2976 | Vinyl chloride | | <0.0005 | EPA 524 | 0.0005 |
| 2977 | 1,1-dichloro ethene | | <0.0005 | EPA 524 | 0.0005 |
| 2980 | 1,2-dichloro ethane | | <0.0005 | EPA 524 | 0.0005 |
| 2981 | 1,1,1-tri chloroethane | | <0.0005 | EPA 524 | 0.0005 |
| 2982 | Carbon Tetrachloride | | <0.0005 | EPA 524 | 0.0005 |
| 2984 | Trichloro ethene | | <0.0005 | EPA 524 | 0.0005 |
| 2987 | Tetrachloro ethene | | <0.0005 | EPA 524 | 0.0005 |
| 2990 | Benzene | | <0.0005 | EPA 524 | 0.0005 |

Comments: Analysis performed by ABC Research Lab ; extraction dates EPA 504 = 01/04/91.

Respectfully submitted by: [signature]
W.M. "Wally" Leslie or Lisa K. Saupp — Lab Director Chemist

Date: 02/12/91

3rd QTR 6 5
March 91

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 6420103 & 6424651
Public Water System Name: Bahia Oaks & Samira Villas
Public Water System Type (check one):
X Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyz: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___: Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY): 03-13-91
Laboratory Sample Number 18476
Sample Location (be specific): Samira Villas Well #1 Bahia Oaks Wells #1&2
Sample Type (check all applicable):
( )Check ( )Regular Distribution X Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
X Raw X Well ( )Resample
( )Special_____
Sampler Name, Title Phone: MARK MARCH - OPERATOR
904-347-1265

**ANALYSIS INFORMATION**
Extraction Date ___/___/____
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTED Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___: Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature: X

Name Dr. Jefferson S Flowers

Title Technical Director

Laboratory Flowers Chemical Laboratories,Inc.

Date 4/12/91

Mail Results to the Appropriate DER or ACPHU Office:

DER /ACPHU Reviewing Offical:

PWSA.01 Sample Interpretation (check one):
Effective 06/01/8 () Satisfactory () Unsatisfactory

Volatile Organic Analysis
17-550.310(2)(d)
(PWS029)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 16476 | .00002 | <.000005 | EPA504.1 | .000005 | 4/11/91 |
| 2969 | Para-dichlorobenzene | 16476 | .075 | <0.001 | EPA502.2 | 0.001 | 4/11/91 |
| 2976 | Vinyl chloride | 16476 | 0.001 | <0.001 | EPA502.2 | 0.001 | 4/11/91 |
| 2977 | 1,1-dichloroethene | 16476 | 0.007 | <0.001 | EPA502.2 | 0.001 | 4/11/91 |
| 2980 | 1,2-dichloroethane | 16476 | 0.003 | <0.001 | EPA502.2 | 0.001 | 4/11/91 |
| 2981 | 1,1,1-trichloroethane | 16476 | 0.2 | <0.001 | EPA502.2 | 0.001 | 4/11/91 |
| 2982 | Carbon tetrachloride | 16476 | 0.003 | <0.001 | EPA502.2 | 0.001 | 4/11/91 |
| 2984 | Trichloroethene | 16476 | 0.003 | <0.001 | EPA502.2 | 0.001 | 4/11/91 |
| 2987 | Tetrachloroethene | 16476 | 0.003 | <0.001 | EPA502.2 | 0.001 | 4/11/91 |
| 2990 | Benzene | 16476 | 0.001 | <0.001 | EPA502.2 | 0.001 | 4/11/91 |

Comments:

4th QTR VO.

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 6920103, — 6424657 — 3420199
Public Water System Name: Bahia Oaks, Samira Villas, Citrus Park
Public Water System Type (check one):
(X)Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyzed: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable___;
Subcontracted Lab Certification Number (if any):

Bahia Oaks Wells #1 North, #2 South
Samira Villas Wells 1 of 1
Citrus Park Wells West, East

**SAMPLE INFORMATION**
Sample Date (MMDDYY): 06-14-91
Laboratory Sample Number 17182
Sample Location (be specific): See →
Sample Type (check all applicable):
( )Check (X)Composit
( )Clearance ( )Regular Distribution ( )Maximum Residence Time ( )Plant Tap
(X)Raw ( )Well ( )Resample
( )Special
Sampler Name, Title Phone: David Compton Operator 904-347-2165

**ANALYSIS INFORMATION**
Extraction Date __/__/____
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTED: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable___;

I do HEREBY CERTIFY that all data submitted are correct.

Signature

Name Dr Jefferson S Flowers

Title Technical Director

Laboratory Flowers Chemical Laboratories,Inc.

Date 6/19/91

Mail Results to the Appropriate DER or ACPHU Office:

DER /ACPHU Reviewing Offical:

PWSA.01 Sample Interpretation (check one):
Effective 06/01/9 () Satisfactory () Unsatisfactory

Volatile Organic Analysis
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 17182 | .00002 | <.000005 | EPA504.1 | .000005 | 6/18/91 |
| 2969 | Para-dichlorobenzene | 17182 | .075 | <0.001 | EPA502.2 | 0.001 | 6/18/91 |
| 2976 | Vinyl chloride | 17182 | 0.001 | <0.001 | EPA502.2 | 0.001 | 6/18/91 |
| 2977 | 1,1-dichloroethene | 17182 | 0.007 | <0.001 | EPA502.2 | 0.001 | 6/18/91 |
| 2980 | 1,2-dichloroethane | 17182 | 0.003 | <0.001 | EPA502.2 | 0.001 | 6/18/91 |
| 2981 | 1,1,1-trichloroethane | 17182 | 0.2 | <0.001 | EPA502.2 | 0.001 | 6/18/91 |
| 2982 | Carbon tetrachloride | 17182 | 0.003 | <0.001 | EPA502.2 | 0.001 | 6/18/91 |
| 2984 | Trichloroethene | 17182 | 0.003 | <0.001 | EPA502.2 | 0.001 | 6/18/91 |
| 2987 | Tetrachloroethene | 17182 | 0.003 | <0.001 | EPA502.2 | 0.001 | 6/18/91 |
| 2990 | Benzene | 17182 | 0.001 | <0.001 | EPA502.2 | 0.001 | 6/18/91 |

Comments:

State of Florida
Department of Health and Rehabilitative Services
Office of Laboratory Services
P.O. Box 210
Jacksonville, Florida 32231

FOR LAB USE ONLY

GULFCOAST WATER & W.W. LAB.
5356 HWY. 19 S.
HOMOSASSA. FL. 32646
LAB. ID # 82349 JOHN PURDIN

12/4/91 10 [illegible]

# DRINKING WATER BACTERIOLOGICAL ANALYSIS

SYSTEM NAME: Samira Village SYSTEM I.D. NO: 6424651 SYSTEM PHONE #: 904-347-126[illegible]

ADDRESS: SW. 84 Ave. RR Ocala COUNTY: Marion DER DISTRICT: SWD

COLLECTOR: Orvil Connor COLLECTOR PHONE #: 904-347-12[illegible]

SAMPLE SITE (Locality or Subdivision): S/D

DATE AND TIME COLLECTED: 12-3-91 1:30 PM

TYPE OF SUPPLY(Circle one): (Community water system) Noncommunity water system Nontransient - noncommunity water system
Private well Swimming pool Bottled water Other public water system

TYPE OF SAMPLE(Circle one): (Compliance) Repeat Replacement Main clearance Well survey Other _____ (Specify)
(Check Box)
[x] Distribution
[x] Raw

Replacement (Check Box)
[ ] TNTC or C
[ ] Turbid
[ ]

REMARKS:

| TO BE COMPLETED BY COLLECTOR OF SAMPLE | | | | TO BE COMPLETED BY LAB | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | ANALYSIS METHOD: ( MF | MTF | | MMO-MUG | PA |
| COLL. NO. | SAMPLE POINT (Specific Address) | Cl RES'D | pH | SAMPLE NUMBER | NON COLIFORM | *TOTAL | CONFIRM TOTAL | CONFIRM FECAL |
| 1 | Well | 0 | | 26581 H | | H | | |
| 2 | Pressure Tank | | | 26581 B | | H | | |
| 3 | SW 10th ST Rd Apt 3 | | | 26581 C | | H | | |
| 4 | R.T. (Behind Bank) | | | 26581 D | | H | | |
| | [illegible] | | | | | | | |
| | [illegible] | | | | | | | |
| | | | | | | | | |

* Results in this column are preliminary. Fecal coliform confirmation on community and noncommunity water systems and total coliform confirmation on all types of water systems will follow in 24-48 hours.

P - Coliforms are present
A - Coliforms are absent
C - Confluent growth
TNTC - Too numerous to count
TA - Turbid, Absence of gas or acid

INTERPRETATIONS-REMARKS BY PROGRAM REVIEWER

HRS Form 886, Jan 81 (Obsoletes previous editions which may not be used) (Stock Number: 0162-000-0886-3)

NAME AND MAILING ADDRESS OF PERSON/FIRM TO RECEIVE REPORT

S.S.U. Services
P.O. Box 11179
Ocala FL. 32673

( )
(✓) SATISFACTORY
( ) INCOMPLETE COLLECTION INFORMATION
( ) REPEAT SAMPLES
( ) REPLACEMENT SAMPLES

REVIEWING OFFICIAL: _____

# Saratoga Harbour - 448

**Putnam County (SSU)**

**Water**

## - 1992 FPSC Filing -

# Saratoga Harbour

## Chemical Analyses

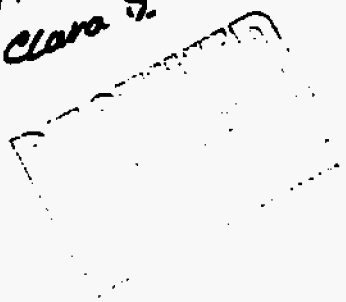
---

**The most recent chemical analyses for the water system conducted by a certified laboratory covering the inorganic, organic, turbidity, microbiological, radionuclide, secondary and unregulated contaminants.**

| Chemical Analysis | Date Taken |
|---|---|
| Inorganic | 7/91 |
| Organic | 7/91 |
| Volatile Organic Chemicals | 1/91 |
| | 4/91 |
| | 7/91 |
| | 10/91 |
| Turbidity | 7/91 |
| Microbiological | 12/91 |
| Radionuclide | 6/88 |
| Secondary Contaminants | 7/91 |
| Unregulated Contaminants | 1/91 |

Putnam County Office
P. O. Box 458
Pomona Park, FL 32181

TO
FRANK S.-
Clara D.



Date: April 9, 1991

To: Jim Maher

Re: First Quarter 1991 VOC & UC analysis results

Enclosed are copies of VOC & UC analysis results. As discussed in our conversation, we grouped our wells for this procedure. The grouping was as follows:

| SAMPLE # | PLANTS INCLUDED IN SAMPLE | ID NUMBERS |
|---|---|---|
| # 1 | Interlachen Lake Estates | 2540545 |
| | Park Manor | 2540873 |
| | Silver Lake Oaks | 2544258 |
| # 2 | River Park # 1 | 2540962 |
| | River Park # 2 | 2540963 |
| | River Park # 3 | 2540964 |
| | Wootens | 2541280 |
| # 3 | Pomona Park | 2540905 |
| | Hermits Cove | 2540482 |
| | Palm Port | 2540865 |
| | River Grove | 2540959 |
| # 4 | Beechers Point | 2540070 |
| | Welaka Mobile Home Park | 2541242 |
| | Saratoga Harbor | 2541008 |
| | St. Johns Highlands | 2540489 |

If you have any questions, please call either Jerry Boyd or Paul Thompson at 904-649-4143.

Copies: Charles Sweat
J.J. Welsh
File

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

GROUP 4

Received From:
SSU
110 Church St
PompanoPrk,FL 32181

Date Reported: Feb26 1991
PO Number: Putnam Co.
PO Number 891028
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 4
Date Received: Jan30 1991 Lab Number : 16156

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16156 |
|---|---|---|---|---|---|
| Dinoseb | mg/L | 0.00001 | 3.80 | 2.00 | <0.00001 |
| Aldicarb sulfoxide | mg/L | 0.002 | 91.0 | 3.89 | <0.002 |
| Aldicarb sulfone | mg/L | 0.002 | 89.5 | 3.16 | <0.002 |
| Metolachlor | mg/L | 0.0005 | 98.1 | 3.01 | <0.0005 |
| Carbofuran | mg/L | 0.001 | 91.0 | 2.33 | <0.001 |
| Aldicarb | mg/L | 0.002 | 105 | 3.70 | <0.002 |
| Atrazine | mg/L | 0.002 | 106 | 0.78 | <0.002 |
| Alachlor (Lasso) | mg/L | 0.0002 | 110 | 1.00 | <0.0002 |
| Heptachlor | mg/L | 0.000005 | 103 | .550 | <0.000005 |
| Aldrin | mg/L | 0.00007 | 117 | 1.46 | <0.00007 |
| Dieldrin | mg/L | 0.00001 | 94.8 | 2.09 | <0.00001 |
| Dicamba | mg/L | 0.00001 | 2.95 | 2.00 | <0.00001 |
| Chlordane | mg/L | 0.00001 | 117 | 1.46 | <0.00001 |
| Pentachlorophenol | mg/L | 0.005 | 1.42 | .500 | <0.005 |
| Hexachlorocyclopenta | mg/L | 0.001 | 100 | 1.94 | <0.001 |
| Dioxin | mg/L | 0.00001 | 101 | 2.47 | <0.00001 |
| Isophorone | mg/L | 0.001 | 99 | 1.41 | <0.001 |
| 2,4-dinitrotoluene | mg/L | 0.001 | 103 | 3.53 | <0.001 |
| Dimethylphthalate | mg/L | 0.001 | 100 | 0.34 | <0.001 |
| Diethylphthalate | mg/L | 0.001 | 98.6 | 2.02 | <0.001 |
| Di-n-butylphthalate | mg/L | 0.001 | 101 | 0.79 | <0.001 |
| Butyl benzyl phthala | mg/L | 0.001 | 97.7 | 3.38 | <0.001 |
| Bis(2-ethythexyl)pht | mg/L | 0.001 | 99.2 | 1.11 | <0.001 |
| 1,2,4-trichlorobenze | mg/L | 0.001 | 99.7 | 0.37 | <0.001 |
| PCB_1016 | mg/L | 0.0001 | 102 | 3.04 | <0.0001 |
| PCB_1221 | mg/L | 0.0001 | 98.4 | .862 | <0.0001 |

Data Release Authorization

Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
661 Newman Road
P.O. Box 140597
Altamonte Springs
Florida 32715-0597
Bus (407) 332-5564
Fax (407) 862-1530

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
110 Church St
PompanoPrk,FL 32181

Date Reported: Feb26 1991
PO Number : Putnam Co.
PO Number 891028
FDHRS Lab# : 83139
FDER Lab# : EB3018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 4
Date Received: Jan30 1991 Lab Number : 16156

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16156 |
|---|---|---|---|---|---|
| Bromoform | mg/L | 0.001 | 115 | 8.58 | <0.001 |
| Bromodichloromethane | mg/L | 0.001 | 102 | 3.61 | <0.001 |
| Dibromochloromethane | mg/L | 0.001 | 109 | 2.82 | <0.001 |
| p-xylene | mg/L | 0.001 | 97.0 | 2.10 | <0.001 |
| Methylene chloride | mg/L | 0.001 | 109 | .858 | <0.001 |
| o-chlorotoluene | mg/L | 0.001 | 104 | 1.19 | <0.001 |
| p-chlorotoluene | mg/L | 0.001 | 93.4 | 1.89 | <0.001 |
| m-dichlorobenzene | mg/L | 0.001 | 115 | .495 | <0.001 |
| o-dichlorobenzene | mg/L | 0.001 | 111 | .180 | <0.001 |
| 1,1-dichloroethane | mg/L | 0.001 | 100 | 1.31 | <0.001 |
| trans-1,2-dichloroet | mg/L | 0.001 | 107 | 0.72 | <0.001 |
| 1,2-dichloropropane | mg/L | 0.001 | 99.1 | .590 | <0.001 |
| 1,1,2-trichloroethan | mg/L | 0.001 | 114 | .841 | <0.001 |
| 1,1,1,2-tetrachloroe | mg/L | 0.001 | 110 | 1.16 | <0.001 |
| 1,1,2,2-tetrachloroe | mg/L | 0.001 | 120 | 2.20 | <0.001 |
| Chlorobenzene | mg/L | 0.001 | 101 | .116 | <0.001 |
| Toluene | mg/L | 0.001 | 93.4 | 1.89 | <0.001 |
| Ethylbenzene | mg/L | 0.001 | 92.9 | 1.29 | <0.001 |
| Bromobenzene | mg/L | 0.001 | 101 | .116 | <0.001 |
| m-xylene | mg/L | 0.001 | 97.0 | 2.10 | <0.001 |
| Styrene | mg/L | 0.001 | 93.4 | 1.89 | <0.001 |
| o-xylene | mg/L | 0.001 | 97.0 | 2.10 | <0.001 |
| Dalapon | mg/L | 0.000001 | 1.07 | 2.00 | <0.000001 |
| Oxamyl (Vydate) | mg/L | 0.002 | 95.8 | 1.85 | <0.002 |
| Simazine | mg/L | 0.007 | 2.63 | 1.5 | <0.007 |
| Picloram | mg/L | 0.00007 | 1.47 | 1.00 | <0.00007 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
841 NEWPORT
P.O. BOX 150
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5588
FAX (407) 339-5119

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
110 Church St
PompanoPrk,FL 32181

Date Reported: Feb26 1991
PO Number: Putnam Co.
PO Number 891028
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 4
Date Received: Jan30 1991 Lab Number : 16156

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16156 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | .000005 | 107 | .899 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 106 | 0.81 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 104 | 0.78 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 104 | 0.70 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 104 | 2.80 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 108 | 3.07 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 112 | 5.08 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 115 | 3.15 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 113 | 3.0 | <0.001 |
| Benzene | mg/L | 0.001 | 111 | 2.81 | <0.001 |
| Chloromethane | mg/L | 0.001 | 109 | .858 | <0.001 |
| Dichlorodifluorometh | mg/L | 0.001 | 100 | .702 | <0.001 |
| Bromomethane | mg/L | 0.001 | 109 | .858 | <0.001 |
| Chloroethane | mg/L | 0.001 | 104 | .542 | <0.001 |
| Trichlorofluorometha | mg/L | 0.001 | 100 | .702 | <0.001 |
| trans-1,3,-dichlorop | mg/L | 0.001 | 107 | 7.14 | <0.001 |
| cis-1,3-dichloroprop | mg/L | 0.001 | 117 | 1.36 | <0.001 |
| Methyl-tert-butyleth | mg/L | 0.001 | 111 | 6.74 | <0.001 |
| cis-1,2-dichloroethe | mg/L | 0.001 | 117 | 1.36 | <0.001 |
| Dibromomethane | mg/L | 0.001 | 109 | .858 | <0.001 |
| 1,1-dichloropropene | mg/L | 0.001 | 106 | 6.2 | <0.001 |
| 1,3-dichloropropane | mg/L | 0.001 | 107 | 7.14 | <0.001 |
| 1,2,3-trichloropropa | mg/L | 0.001 | 105 | 5.27 | <0.001 |
| 2,2-dichloropropane | mg/L | 0.001 | 104 | .542 | <0.001 |
| 1,2-dibromo-3-chloro | mg/L | 0.001 | 105 | 5.27 | <0.001 |
| Chloroform | mg/L | 0.001 | 99.1 | 1.06 | <0.001 |

Data Release Authorization

Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director

Jefferson S. Flowers, Ph.D.
481 Newnansport
P.O. Box 150
Alachua, Florida 32615
Bus (904) 462-2484

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
110 Church St
PompanoPrk,FL 32181

Date Reported: Feb26 1991
PO Number: Putnam Co.
PO Number 891028
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 4
Date Received: Jan30 1991 Lab Number : 16156

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16156 |
|---|---|---|---|---|---|
| PCB_1232 | mg/L | 0.0001 | 110 | 7.32 | <0.0001 |
| PCB_1242 | mg/L | 0.0001 | 99.1 | 1.86 | <0.0001 |
| PCB_1248 | mg/L | 0.0001 | 102 | 3.04 | <0.0001 |
| PCB_1254 | mg/L | 0.0001 | 110 | 7.32 | <0.0001 |
| PCB_1260 | mg/L | 0.0001 | 102 | 3.04 | <0.0001 |
| Dioctylphthalate | mg/L | 0.001 | 98.9 | 1.55 | <0.001 |
| 2-chlorophenol | mg/L | 0.001 | 101 | 2.05 | <0.001 |
| 2-methyl-4,6-dinitop | mg/L | 0.001 | 106 | 7.47 | <0.001 |
| Phenol | mg/L | 0.001 | 84.1 | 26.7 | <0.001 |
| 2,4,6-trichloropheno | mg/L | 0.001 | 93.3 | 10.1 | <0.001 |

Data Release Authorization

Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
441 NEWBERRY PORT
P.O. BOX 140-527
ALTAMONTE SPRINGS
FLORIDA 32715-0527
BUS (407) 339-5284

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number:_____
Public Water System Name Saratoga Harbour.
Public Water System Type (check one):
( )Comma ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyz Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable_X_; Unregulated Organic Pesticide_X_;
Unregulated Base Neutral Extractable_X_;Unregulated Acid Extractable_X_;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number 16155
Sample Location (be specific): _____
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
( )Raw ( )Well ( )Resample
( )Special_____
Sampler Name, Title Phone:_____
_____

**ANALYSIS INFORMATION**
Extraction Date 2/13/91
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (cha ()Yes (X) No
ANALYSIS SUBMITTED Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable___;

I do HEREBY CERTIFY that all data submitted are correct.

Signature:_____

Name Dr. Jefferson S Flowers

Title Technical Director

Laboratory Flowers Chemical Laboratories,Inc.

Date 2/22/91

Mail Results to the Appropriate DER or ACPHU Office:
_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 08/01/( () Satisfactory () Unsatisfactory

## Volatile Organic Analysis
17-550.310(2)(d)
(PWS029)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 16156 | .00002 | <0.000005 | EPA504.1 | .000005 | 2/19/91 |
| 2969 | Para-dichlorobenzene | 16156 | .075 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2976 | Vinyl chloride | 16156 | 0.001 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2977 | 1,1-dichloroethene | 16156 | 0.007 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2980 | 1,2-dichloroethane | 16156 | 0.003 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2981 | 1,1,1-trichloroethane | 16156 | 0.2 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2982 | Carbon tetrachloride | 16156 | 0.003 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2984 | Trichloroethene | 16156 | 0.003 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2987 | Tetrachloroethene | 16156 | 0.003 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2990 | Benzene | 16156 | 0.001 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |

Comments:

## Unregulated Organic Purgeable Analysis
17-550.410(1)
(PWS034)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2210 | Chloromethane | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2212 | Dichlorodifluoromethane | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2214 | Bromomethane | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2216 | Chloroethane | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2218 | Trichlorofluoromethane | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2224 | trans-1,3,-dichloroprop | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2228 | cis-1,3-dichloropropene | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2251 | Methyl-tert-butylether | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2380 | cis-1,2-dichloroethene | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2408 | Dibromomethane | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2410 | 1,1-dichloropropene | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2412 | 1,3-dichloropropane | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2414 | 1,2,3-trichloropropane | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2416 | 2,2-dichloropropane | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2931 | 1,2-dibromo-3-chloropr | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2941 | Chloroform | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2942 | Bromoform | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2943 | Bromodichloromethane | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2944 | Dibromochloromethane | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2962 | p-xylene | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2964 | Methylene chloride | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2965 | o-chlorotoluene | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2966 | p-chlorotoluene | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2967 | m-dichlorobenzene | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2968 | o-dichlorobenzene | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2978 | 1,1-dichloroethane | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2979 | trans-1,2-dichloroethyl | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2983 | 1,2-dichloropropane | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2985 | 1,1,2-trichloroethane | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2986 | 1,1,1,2-tetrachloroetha | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2988 | 1,1,2,2-tetrachloroetha | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2989 | Chlorobenzene | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2991 | Toluene | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2992 | Ethylbenzene | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2993 | Bromobenzene | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2995 | m-xylene | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2996 | Styrene | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2997 | o-xylene | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |

Comments:

Unregulated Organic Pesticide Analysis
17-550.410(2)
(PWS035)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2031 | Dalapon | 16156 | | <0.000001 | EPA515 | .000001 | 2/21/91 |
| 2036 | Oxamyl (Vydate) | 16156 | | <0.002 | EPA531 | 0.002 | 2/18/91 |
| 2037 | Simazine | 16156 | | <0.007 | EPA505 | 0.007 | 2/21/91 |
| 2040 | Picloram | 16156 | | <0.00007 | EPA515 | 0.00007 | 2/21/91 |
| 2041 | Dinoseb | 16156 | | <0.00001 | EPA515 | 0.00001 | 2/21/91 |
| 2043 | Aldicarb sulfoxide | 16156 | | <0.002 | EPA531 | 0.002 | 2/18/91 |
| 2044 | Aldicarb sulfone | 16156 | | <0.002 | EPA531 | 0.002 | 2/18/91 |
| 2045 | Metolachlor | 16156 | | <0.0005 | EPA505 | 0.0005 | 2/21/91 |
| 2046 | Carbofuran | 16156 | | <0.001 | EPA531 | 0.001 | 2/18/91 |
| 2047 | Aldicarb | 16156 | | <0.002 | EPA531 | 0.002 | 2/18/91 |
| 2050 | Atrazine | 16156 | | <0.002 | EPA505 | 0.002 | 2/21/91 |
| 2051 | Alachlor (Lasso) | 16156 | | <0.0002 | EPA505 | 0.0002 | 2/21/91 |
| 2065 | Heptachlor | 16156 | | <.000005 | EPA508 | .000005 | 2/21/91 |
| 2356 | Aldrin | 16156 | | <0.00007 | EPA508 | 0.00007 | 2/21/91 |
| 2364 | Dieldrin | 16156 | | <0.00001 | EPA508 | 0.00001 | 2/21/91 |
| 2440 | Dicamba | 16156 | | <0.00001 | EPA515 | 0.00001 | 2/21/91 |
| 2959 | Chlordane | 16156 | | <0.00001 | EPA508 | 0.00001 | 2/21/91 |
| 9114 | Pentachlorophenol | 16156 | | <0.005 | EPA515 | 0.005 | 2/14/91 |

Comments:

Unregulated Base Neutral Extractable Analysis
17-550.410(3)
(PWS036)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2042 | Hexachlorocyclopentadie | 16156 | | <0.001 | EPA508 | 0.001 | 2/21/91 |
| 2063 | Dioxin | 16156 | | <0.00001 | EPA613 | 0.00001 | 2/21/91 |
| 2262 | Isophorone | 16156 | | <0.001 | EPA609 | 0.001 | 2/14/91 |
| 2270 | 2,4-dinitrotoluene | 16156 | | <0.001 | EPA609 | 0.001 | 2/14/91 |
| 2282 | Dimethylphthalate | 16156 | | <0.001 | EPA606 | 0.001 | 2/14/91 |
| 2284 | Diethylphthalate | 16156 | | <0.001 | EPA606 | 0.001 | 2/14/91 |
| 2290 | Di-n-butylphthalate | 16156 | | <0.001 | EPA606 | 0.001 | 2/14/91 |
| 2294 | Butyl benzyl phthalate | 16156 | | <0.001 | EPA606 | 0.001 | 2/14/91 |
| 2298 | Bis(2-ethylhexyl)phthal | 16156 | | <0.001 | EPA606 | 0.001 | 2/14/91 |
| 2378 | 1,2,4-trichlorobenzene | 16156 | | <0.001 | EPA612 | 0.001 | 2/14/91 |
| 2388 | PCB-1016 | 16156 | | <0.0001 | EPA505 | 0.0001 | 2/21/91 |
| 2390 | PCB-1221 | 16156 | | <0.0001 | EPA505 | 0.0001 | 2/21/91 |
| 2392 | PCB-1232 | 16156 | | <0.0001 | EPA505 | 0.0001 | 2/21/91 |
| 2394 | PCB-1242 | 16156 | | <0.0001 | EPA505 | 0.0001 | 2/21/91 |
| 2396 | PCB-1248 | 16156 | | <0.0001 | EPA505 | 0.0001 | 2/21/91 |
| 2398 | PCB-1254 | 16156 | | <0.0001 | EPA505 | 0.0001 | 2/21/91 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 2400 | PCB-1260 | 16156 | | <0.0001 | EPA505 | 0.0001 | 2/21/91 |
| 9089 | Dioctylphthalate | 16156 | | <0.001 | EPA606 | 0.001 | 2/14/91 |

Comments:

Unregulated Acid Extractable Analysis
17-550.410(4)
(PWS037)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 9108 | 2-chlorophenol | 16156 | | <0.001 | EPA604 | 0.001 | 2/14/91 |
| 9112 | 2-methyl-4,6-dinitophe | 16156 | | <0.001 | EPA604 | 0.001 | 2/14/91 |
| 9115 | Phenol | 16156 | | <0.001 | EPA604 | 0.001 | 2/14/91 |
| 9116 | 2,4,6-trichlorophenol | 16156 | | <0.001 | EPA604 | 0.001 | 2/14/91 |

Comments:

To: Jim Meyer, DEP

RE: 2nd Quarter 1991 VOC, analysis results.

Dear Mr. Meyer,

Enclosed are copies of our 2nd Quarter 1991 VOC analysis results. As discussed in our earlier conversation with you, we grouped our wells for this procedure. The grouping was as follows:

| SAMPLE # | PLANTS INCLUDED IN SAMPLE | | ID. # |
|---|---|---|---|
| #1 | Interlachen Lakes Estates | #470 | 2540545 |
| | Park Manor | #444 | 2540873 |
| | Silver Lake Oaks | #473 | 2544250 |
| #2 | River Park #1 | #439[1] | 2540962 |
| | River Park #2 | #439[2] | 2540963 |
| | River Park #3 | #439[3] | 2540964 |
| | Woolems | #446 | 2541280 |
| #3 | Pomona Park | #443 | 2540905 |
| | Hermits Cove | #438 | 2540482 |
| | Palm Port | #440 | 2540865 |
| | River Grove | #442 | 2540959 |
| #4 | Beechers Point | #472 | 2540070 |
| | Welaka Mobile Home Park | #447 | 2541242 |
| | Saratoga Harbor | #448 | 2541008 |
| | St. Johns Highlands | #471 | 2540489 |

If you have any questions, please call either Jerry Boyd or myself at (904)649-4141.

Thank you,

Paul D. Thompson
Lead Operator, Putnam County
SSU Services

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU
PO Box 458
PomonaPrk,FL 32181

Date Reported: Apr29 1991
PO Number: B91029
PO Number SSU Serv.
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 4
Date Received: Apr17 1991 Lab Number : 16692

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16692 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 98.6 | 7.34 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 105 | 5.74 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 100 | 3.53 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 100 | 3.53 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 107 | 5.79 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 102 | 3.96 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 103 | 1.43 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 102 | 8.39 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 95.4 | 3.99 | <0.001 |
| Benzene | mg/L | 0.001 | 103 | 2.23 | <0.001 |

Data Release Authorization

Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson C. Flowers, Ph.D.
Technical Director



Jefferson L. Flowers, Ph.D.
Jefferson C. Flowers, Ph.D.
481 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984
FAX (407) 260-6110

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number:_____
Public Water System Name ___Saratoga Harbour
Public Water System Type (check one):
( )Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyzed: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___: Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number 16592
Sample Location (be specific): _____
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
( )Raw ( )Well ( )Resample
( )Special_____
Sampler Name, Title Phone:_____
_____

**ANALYSIS INFORMATION**
Extraction Date ___/___/____
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTED: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___: Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature:_____

Name **Dr Jefferson S Flowers**

Title **Technical Director**

Laboratory **Flowers Chemical Laboratories,Inc.**

Date **4/27/91**

Mail Results to the
Appropriate DER or ACPHU Office:
_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 06/01/9 () Satisfactory () Unsatisfactory

Volatile Organic Analysis
17-550.310(2)(d)
(PWS029)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 16692 | .00002 | <.000005 | EPA504.1 | .000005 | 4/26/91 |
| 2969 | Para-dichlorobenzene | 16692 | .075 | <0.001 | EPA502.2 | 0.001 | 4/25/91 |
| 2976 | Vinyl chloride | 16692 | 0.001 | <0.001 | EPA502.2 | 0.001 | 4/25/91 |
| 2977 | 1,1-dichloroethene | 16692 | 0.007 | <0.001 | EPA502.2 | 0.001 | 4/25/91 |
| 2980 | 1,2-dichloroethane | 16692 | 0.003 | <0.001 | EPA502.2 | 0.001 | 4/25/91 |
| 2981 | 1,1,1-trichloroethane | 16692 | 0.2 | <0.001 | EPA502.2 | 0.001 | 4/25/91 |
| 2982 | Carbon tetrachloride | 16692 | 0.003 | <0.001 | EPA502.2 | 0.001 | 4/25/91 |
| 2984 | Trichloroethene | 16692 | 0.003 | <0.001 | EPA502.2 | 0.001 | 4/25/91 |
| 2987 | Tetrachloroethene | 16692 | 0.003 | <0.001 | EPA502.2 | 0.001 | 4/25/91 |
| 2990 | Benzene | 16692 | 0.001 | <0.001 | EPA502.2 | 0.001 | 4/25/91 |

Comments:

ORLANDO LABORATORIES INC.

P.O. Box 149127 • Orlando, Florida 32814

REPORT OF ANALYSIS

Southern States Utilities
P.O. Box 458
Pamona Park, FL 32181

Attn: Paul Thompson

Work Order # : 91-07-477
Date Received: 07/31/91
Date Reported: 08/07/91
OLI Contact: L BALTZLEY

Work ID: Southern States Utilities
Samples collected by: Client
Total Samples: 2

| SAMPLE IDENTIFICATION | TEST CODES and NAMES used on this report |
|---|---|
| 01 Composite #1 | 1COMP Composite Data For Samples |
| 02 Method Blank | PWS028 Volatile Organic Analysis |

Copy of report to:

Jerry Boyd
P.O. Box 458
Pamona Park, FL 32181

OLI Florida Department of Health & Rehabilitative Service Identification Numbers are: Drinking Water Certification Number 83141, Environmental Certification Number EA3033

Respectfully Submitted,
ORLANDO LABORATORIES, INC.

John Hobbs
LABORATORY DIRECTOR

Eric Halarek
QUALITY CONTROL

*Dedicated To Excellence*

(407) 896-6645 (800) 826-8320 FAX (407) 898-6588

ORLANDO LABORATORIES,INC.
Received: 07/31/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91 [illegible]

SAMPLE ID Composite #1
DATE COLLECTED not specified
TEST NAME Composite Data For Samples

SAMPLE# 01A
MATRIX WATER
TEST CODE ILOMP

NUMBER OF SAMPLES COMPOSITED:

| | Sample Identification | Date and time |
|---|---|---|
| #1 | Beechers Point | 07/30/91 10:30 |
| #2 | Welaka MHP | 07/30/91 10:30 |
| #3 | Sarratoga Harbor | 07/30/91 10:30 |
| #4 | St. Johns | 07/30/91 10:30 |
| #5 | | |
| #6 | | |
| #7 | | |
| #8 | | |
| #9 | | |
| #10 | | |
| #11 | | |
| #12 | | |

ORLANDO LABORATORIES,INC.
Received: 07/31/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-07-177

SAMPLE ID Composite #1
DATE COLLECTED not specified
TEST NAME Volatile Organic Analysis

SAMPLE# 01A
MATRIX WATER
TEST CODE PWS028

VOLATILE ORGANIC ANALYSIS
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | | | <0.00002 | EPA 504 | 0.00002 | 08/01/91 |
| 2969 | Para-dichlorobenzene | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2976 | Vinyl Chloride | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2977 | 1,1-Dichloroethene | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2980 | 1,2-Dichloroethane | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2981 | 1,1,1-trichloroethane | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2982 | Carbon Tetrachloride | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2984 | Trichloroethene | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2987 | Tetrachloroethene | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2990 | Benzene | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |

Comments:

ORLANDO LABORATORIES,INC.
Received: 07/31/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-07-177

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME Volatile Organic Analysis

SAMPLE# 020
MATRIX METHOD BLANK
TEST CODE PWS028

VOLATILE ORGANIC ANALYSIS
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | | | <0.00002 | EPA 504 | 0.00002 | 08/01/91 |
| 2969 | Para-dichlorobenzene | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2976 | Vinyl Chloride | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2977 | 1,1-Dichloroethene | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2980 | 1,2-Dichloroethane | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2981 | 1,1,1-trichloroethane | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2982 | Carbon Tetrachloride | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2984 | Trichloroethene | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2987 | Tetrachloroethene | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2990 | Benzene | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |

Comments:

ORLANDO LABORATORIES INC.



GC/MS VOLATILE ORGANICS

MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 08-01-1991

LAB SAMPLE # : 9107484-2 524
ANALYSIS DATE : 7/31/91

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| 1,1-dichloroethene | 50 | 0 | 35 | 70 | 39 | 78 | 11 |
| trichloroethene | 50 | 0 | 53 | 106 | 51 | 102 | 4 |
| benzene | 50 | 0 | 50 | 100 | 48 | 96 | 4 |
| toluene | 50 | 0 | 49 | 98 | 49 | 98 | 0 |
| chlorobenzene | 50 | 0 | 47 | 94 | 47 | 94 | 0 |

COMMENTS :

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| 1,1-dichloroethene | 64 | 137 | 19 | 50 | 142 | 22 |
| trichloroethene | 76 | 124 | 24 | 70 | 128 | 25 |
| benzene | 77 | 113 | 25 | 64 | 134 | 26 |
| toluene | 65 | 125 | 20 | 69 | 132 | 24 |
| chlorobenzene | 71 | 123 | 24 | 72 | 124 | 20 |

GC ORGANICS

# MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 08-05-1991

LAB SAMPLE # : 9107-147-01A
ANALYSIS DATE : 08/01/91

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| Ethylene Dibromide | 100 | 0 | 56 | 56 | 67 | 67 * | 16 |
| Dibromochloropropane | 100 | 0 | 67 | 67 | 59 | 59 * | 13 |

COMMENTS : * = parameter outside QC limits.

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| Ethylene Dibromide | 50 | 100 | 30 | 35 | 100 | 30 |
| Dibromochloropropane | 45 | 110 | 30 | 60 | 110 | 30 |

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number: _____
Public Water System Name: Saratoga Harbour
Public Water System Type (check one):
( ) Community ( ) Non-Community ( ) Special Non-Community

LABORATORY CERTIFICATION INFORMATION
Lab Certification Number: 83141
Parameter Group(s) Analyzed: Volatile Organic Analysis
Subcontract Lab Certification Number (if any): N/A

SAMPLE INFORMATION
Sample Date (MMDDYY): 07/30/91
Laboratory Sample Number: 91-07-477
Sample Location: _____
Sample Type (check all applicable):
( ) Check ( ) Regular Distribution ( ) Composite
( ) Clearance ( ) Maximum Residue Time ( ) Plant Tap
( ) Raw ( ) Well ( ) Re-sample
( ) Special _____
Sampler Name, Title, Phone: _____

ANALYSIS INFORMATION
Extraction Date (MMDDYY): 08/01/91 (504)
Laboratory Contact: Eric Malarek
Re-sample Requested? (check one): ( ) Yes ( ) No
ANALYSES SUBMITTED: Turbidity____; Inorganic____; Trihalomethane____;
Volatile Organic____; Organic Chemical____; Secondary Chemical____;
Radiological____; Unregulated Organic Purgeable____; Unregulated
Organic Pesticides____; Unregulated Base Neutral Extractable____;
Unregulated Acid Extractable____; (Check all analyses which apply.)

I do HEREBY CERTIFY that all data submitted is correct.

Mail Results to the Appropriate DER or ACPHU Office:

Signature _____

Name Eric Malarek

Title Quality Control Officer

Laboratory Orlando Laboratories, Inc.

Date _____

DER/ACPHU Reviewing Official

_____

Sample Interpretation (check one)
( )Satisfactory ( ) Unsatisfactory

**ORLANDO LABORATORIES, INC.**
P.O. Box 14912, Orlando, FL 32614
(407) 896-6641 FAX (407) 896-5988

# CHAIN-OF-CUSTODY RECORD
(INSTRUCTIONS ON BACK)

Page 4 of 5

| 1 INVOICE TO (COMPANY NAME) / ADDRESS (CITY, STATE, ZIP) | 2 CONTACT PERSON/PHONE # INVOICE | 3 OLI WORK ORDER # (LAB USE) |
|---|---|---|
| SSU Services — 1000 Color Place Apopka | | 9107477 |
| **4 ORIGINAL REPORT TO (COMPANY NAME) / ADDRESS (CITY, STATE, ZIP)** | **CONTACT PERSON/PHONE # REPORT** | **6 RB NUMBER (LAB USE)** |
| SSU Services — PO Box 458 Pomona Park FL 32181 | Paul Thompson 904-649-4143 | |
| **7 (OPTIONAL) ADDITIONAL REPORTS SENT TO / ADDRESS (CITY, STATE, ZIP)** | | |
| **8 CLIENT PROJECT NAME** | **9 CLIENT PROJECT #** | |

| 10 SAMPLE IDENTIFICATION | 11 DATE/TIME | 12 COMP | GRAB | WATER | SOIL | OTHER | 13 SAMPLE DESCRIPTION | 17 NUMBER OF CONTAINERS | 18 REQUESTED ANALYSIS: VOCs | 19 REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| Broadway Pl (253047) | 7/30/91 10:30 | | | X | | | Well | 8 | X | |
| Webster Mill (254243) | 7/30/91 10:30 | | | X | | | Well | 4 | X | |
| Saratoga Harbor (254244) | 7/30/91 10:30 | | | X | | | Well | 4 | X | |
| St. Johns (253048) | 7/30/91 10:30 | | | X | | | Well | 4 | X | |

| TRANSFER NUMBER | 14 RELINQUISHED BY | 15 DATE/TIME | 16 ACCEPTED BY |
|---|---|---|---|
| 1st | Roy White | 7/30/91 18:00 | Ron Baugh |
| 2nd | Ron Baugh | 7/31 11:00 | Daelee Homan |
| 3rd | | | |

20 ADDITIONAL REMARKS

21 COOLER #'s

22 SAMPLER'S SIGNATURE Roy White

ORIGINAL - LAB
YELLOW - FILE
PINK - CLIENT

0077

ORLANDO LABORATORIES INC.

P.O. Box 149127 • Orlando, Florida 32814

REPORT OF ANALYSIS

Southern States Utilities
P.O. Box 458
Pamona Park, FL 32181

Attn: Paul Thompson

Work Order # : 91-10-434
Date Received: 10/30/91
Date Reported: 11/13/91
OLI Contact: J_BEATO

Work ID: SSU Services
Samples collected by: Client
Total Samples: 2

| SAMPLE IDENTIFICATION | TEST CODES and NAMES used on this report |
|---|---|
| 01 Composite #1 | 1COMP Composite Data For Samples |
| 02 Method Blank | PWS028 Volatile Organic Analysis |

Copy of invoice to:

Jerry Boyd
Southern States Utilities
P.O. Box 458
Pamona Park, FL 32181

OLI Florida Department of Health & Rehabilitative Service Identification Numbers are:
Drinking Water Certification Number 83141, Environmental Certification Number E83033

Respectfully Submitted,
ORLANDO LABORATORIES, INC.

John Hobbs
LABORATORY DIRECTOR

Eric Malarek
QUALITY CONTROL

ORLANDO LABORATORIES,INC.
Received: 10/30/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-10-[illegible]

SAMPLE ID Composite #1
DATE COLLECTED not specified
TEST NAME Composite Data For Samples

SAMPLE# 010
MATRIX WATER
TEST CODE ICOMP

NUMBER OF SAMPLES COMPOSITED:

| | Sample Identification | Date and time |
|---|---|---|
| #1 | BEECHERS POINT #1 & #2 | 10/30/91 11:30 |
| #2 | WELAKA MOBILE HOME PARK #3 | 10/30/91 11:40 |
| #3 | SARATOGA HARBOR #4 | 10/30/91 11:45 |
| #4 | ST. JOHNS HIGHLANDS #5 | 10/30/91 10:50 |
| #5 | | |
| #6 | | |
| #7 | | |
| #8 | | |
| #9 | | |
| #10 | | |
| #11 | | |
| #12 | | |

ORLANDO LABORATORIES, INC.
Received: 10/30/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-10-[illegible]

SAMPLE ID Composite #1
DATE COLLECTED not specified
TEST NAME Volatile Organic Analysis

SAMPLE# 010
MATRIX WATER
TEST CODE PWS028

VOLATILE ORGANIC ANALYSIS
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | | | <0.00002 | EPA 504 | 0.00002 | 11/05/91 |
| 2969 | Para-dichlorobenzene | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2976 | Vinyl Chloride | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2977 | 1,1-Dichloroethene | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2980 | 1,2-Dichloroethane | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2981 | 1,1,1-trichloroethane | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2982 | Carbon Tetrachloride | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2984 | Trichloroethene | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2987 | Tetrachloroethene | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2990 | Benzene | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |

Comments:

ORLANDO LABORATORIES,INC.
Received: 10/30/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91 10 4 1

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME Volatile Organic Analysis

SAMPLE# 020
MATRIX METHOD BLANK
TEST CODE PWS028

VOLATILE ORGANIC ANALYSIS
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | | | <0.00002 | EPA 504 | 0.00002 | 11/05/91 |
| 2969 | Para-dichlorobenzene | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2976 | Vinyl Chloride | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2977 | 1,1-Dichloroethene | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2980 | 1,2-Dichloroethane | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2981 | 1,1,1-trichloroethane | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2982 | Carbon Tetrachloride | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2984 | Trichloroethene | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2987 | Tetrachloroethene | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2990 | Benzene | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |

Comments:

ORLANDO LABORATORIES, INC.

GC ORGANICS

# MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 11-11-1991

LAB SAMPLE # : 9110433-01A
ANALYSIS DATE : 11/05/91

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| Ethylene Dibromide | 100 | 0 | 72 | 72 | 69 | 69 | 4 |
| Dibromochloropropane | 100 | 0 | 77 | 77 | 78 | 78 | 1 |

COMMENTS :

## MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| Ethylene Dibromide | 50 | 110 | 30 | 35 | 100 | 30 |
| Dibromochloropropane | 65 | 110 | 30 | 60 | 110 | 30 |

ORLANDO LABORATORIES INC.

GC/MS VOLATILE ORGANICS

MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 11-05-1991

LAB SAMPLE # : 9110445-3
ANALYSIS DATE : 11/1/91

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| 1,1-dichloroethene | 50 | 0 | 58 | 116 | 53 | 106 | 9 |
| trichloroethene | 50 | 0 | 53 | 106 | 52 | 104 | 2 |
| benzene | 50 | 0 | 59 | 118 * | 55 | 110 | 7 |
| toluene | 50 | 0 | 50 | 100 | 48 | 96 | 4 |
| chlorobenzene | 50 | 0 | 51 | 102 | 50 | 100 | 2 |

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| 1,1-dichloroethene | 64 | 137 | 19 | 50 | 142 | 22 |
| trichloroethene | 76 | 124 | 24 | 70 | 128 | 25 |
| benzene | 77 | 113 | 25 | 64 | 134 | 26 |
| toluene | 65 | 125 | 20 | 69 | 132 | 24 |
| chlorobenzene | 71 | 123 | 24 | 72 | 124 | 20 |

*Note: Parameter outside QC limits due to matrix interference.

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

**PUBLIC WATER SYSTEM INFORMATION**

Public Water System I.D. Number: 2541008

Public Water System Name: Saratoga Harbor

Public Water System Type (check one):

(X) Community ( ) Non-Community ( ) Special Non-Community

**LABORATORY CERTIFICATION INFORMATION**

Lab Certification Number: 83141

Parameter Group(s) Analyzed: Volatile Organic Analysis

Subcontract Lab Certification Number (if any): N/A

**SAMPLE INFORMATION**

Sample Date (MMDDYY): 10/30/91

Laboratory Sample Number: 91-10-434

Sample Location: Well

Sample Type (check all applicable):

( ) Check ( ) Regular Distribution ( ) Composite

( ) Clearance ( ) Maximum Residue Time ( ) Plant Tap

( ) Raw (X) Well ( ) Re-sample

( ) Special

Sampler Name, Title, Phone: Paul D. Thompson
Lead Operator, Putnam County SSU Services
904-649-4143

**ANALYSIS INFORMATION**

Extraction Date (MMDDYY): 10/31/91 (504)

Laboratory Contact: Eric Malarek

Re-sample Requested? (check one): ( ) Yes ( ) No

ANALYSES SUBMITTED: Turbidity____; Inorganic____; Trihalomethane____;
Volatile Organic____; Organic Chemical____; Secondary Chemical____;
Radiological____; Unregulated Organic Purgeable____; Unregulated
Organic Pesticides____; Unregulated Base Neutral Extractable____;
Unregulated Acid Extractable____; (Check all analyses which apply.)

I do HEREBY CERTIFY that all data submitted is correct.

Signature Eric Malarek

Name Eric Malarek

Title Quality Control Officer

Laboratory Orlando Laboratories, Inc.

Date 11/13/91

Mail Results to the Appropriate DER or ACPHU Office:

DER/ACPHU Reviewing Official

Sample Interpretation (check one)

( )Satisfactory ( ) Unsatisfactory

0085

ORLANDO LABORATORIES, INC.
P.O. Box 14981 Orlando, FL 32814
407 896-6645 FAX 407 896-6588

# CHAIN-OF-CUSTODY RECORD

(INSTRUCTIONS ON BACK)

Page ___ of ___

| | | | |
|---|---|---|---|
| 1 REPORT TO (COMPANY AND INDIVIDUAL) | ADDRESS (CITY STATE ZIP) | CONTACT PERSON'S PHONE # REPORT | WORK ORDER # |
| SSU SERVICES | P.O. BOX 458 POMONA PARK FL. 32181 | | 9110434 |
| 2 ORIGINAL REPORT TO (COMPANY AND INDIVIDUAL) | ADDRESS (CITY STATE ZIP) | CONTACT PERSON'S PHONE # REPORT | PWS NUMBER IF ABOVE |
| SAME | | PAUL D. THOMPSON | |
| 7 (OPTIONAL) ADDITIONAL REPORTS SENT TO | ADDRESS (CITY STATE ZIP) | | |
| 8 CLIENT PROJECT NAME | 9 CLIENT PROJECT PO # | | |
| | 4114423 | | |

| | 10 SAMPLE IDENTIFICATION | 11 DATE/TIME | | 12 COMP | GRAB | WATER | SOIL | OTHER | 13 SAMPLE DESCRIPTION | NUMBER OF CONTAINERS | 14 REQUESTED ANALYSIS VOC | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | BEECHES POINT | 11:30 | 10/30/91 | | X | X | | | WELL | 8 | X | |
| 3 | LELAKA MOBILE HOME PARK | 11:40 | 10/30/91 | | X | X | | | WELL | 4 | X | |
| 4 | SARATOGA HARBOR | 11:45 | 10/30/91 | | X | X | | | WELL | 4 | X | |
| 5 | ST. JOHNS HIGHLANDS | 10:50 | 10/30/91 | | X | X | | | WELL | 4 | X | |

| TRANSFER NUMBER | 14 RELINQUISHED BY | 15 DATE/TIME | 16 ACCEPTED BY |
|---|---|---|---|
| 1st | Ron Bargeron | 10-30 16:30 | DeeDee Homan |
| 2nd | | | |
| 3rd | | | |

20 ADDITIONAL REMARKS

21 COOLER #s

22 SAMPLER'S SIGNATURE

ORIGINAL - LAB
YELLOW - FILE
PINK - CLIENT

ORLANDO LABORATORIES,INC.
Received: 07/31/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-07-478

SAMPLE ID Saratoga Harbor #2541008
DATE COLLECTED 07/30/91 11:00:00
TEST NAME Turbidity Analysis

SAMPLE# 02A
MATRIX WATER
TEST CODE PWS026

TURBIDITY ANALYSIS
17-550.310(3)
(PWS026)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(NTU) | Analytical Method | Analysis Date |
|---|---|---|---|---|---|---|
| 0100 | Turbidity | | | 2.2 | EPA 180.1 | 08/01/91 |

Comments:

ORLANDO LABORATORIES,INC.
Received: 07/31/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-07-478

SAMPLE ID Saratoga Harbor #2541008
DATE COLLECTED 07/30/91 11:00:00
TEST NAME Organic Chemical Analysis

SAMPLE# 02A
MATRIX WATER
TEST CODE PWS029

ORGANIC CHEMICAL ANALYSIS
17-550.310(2)(a)(b)
(PWS029)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|---|
| 2005 | Endrin | | | <0.00010 | | EPA 508 | 0.00010 | 08/02/91 |
| 2010 | Lindane | | | <0.00005 | | EPA 608 | 0.00005 | 08/02/91 |
| 2015 | Methoxychlor | | | <0.00050 | | EPA 608 | 0.00050 | 08/02/91 |
| 2020 | Toxaphene | | | <0.00100 | | EPA 608 | 0.00100 | 08/02/91 |
| 2105 | 2,4-D | | | <0.0020 | | EPA 615 | 0.0020 | 08/05/91 |
| 2110 | 2,4,5-TP (Silvex) | | | <0.0010 | | EPA 615 | 0.0010 | 08/05/91 |

Comments:

ORLANDO LABORATORIES,INC.
Received: 07/31/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-07-478

SAMPLE ID Saratoga Harbor #Z541008
DATE COLLECTED 07/30/91 11:00:00
TEST NAME Inorganic Analysis

SAMPLE# 02A
MATRIX WATER
TEST CODE PWS030

INORGANIC ANALYSIS
17-550.310(1)
(PWS030)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1005 | Arsenic | | | <0.010 | EPA 206.2 | 0.010 | 08/02/91 |
| 1010 | Barium | | | <0.100 | EPA 200.7 | 0.100 | 07/31/91 |
| 1015 | Cadmium | | | <0.005 | EPA 213.2 | 0.005 | 07/31/91 |
| 1020 | Chromium | | | <0.010 | EPA 218.2 | 0.010 | 07/31/91 |
| 1025 | Fluoride | | | 0.397 | EPA 340.2 | 0.1 | 08/03/91 |
| 1030 | Lead | | | <0.010 | EPA 239.2 | 0.010 | 08/04/91 |
| 1035 | Mercury | | | <0.0005 | EPA 245.1 | 0.0005 | 08/08/91 |
| 1040 | Nitrate (as N) | | | <0.03 | EPA 352.2 | 0.03 | 08/02/91 |
| 1045 | Selenium | | | <0.005 | EPA 270.2 | 0.005 | 08/07/91 |
| 1050 | Silver | | | <0.010 | EPA 272.2 | 0.010 | 08/04/91 |
| 1052 | Sodium | | | 63.0 | EPA 200.7 | 0.001 | 07/31/91 |

Comments:

ORLANDO LABORATORIES, INC.
Received: 07/31/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-07-478

SAMPLE ID Saratoga Harbor #2541008
DATE COLLECTED 07/30/91 11:00:00
TEST NAME Secondary Chem. Analysis

SAMPLE# 02A
MATRIX WATER
TEST CODE PWS031

SECONDARY CHEMICAL ANALYSIS
17-550.320
(PWS031)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1016 | Calcium | | | 52.0 | EPA 200.7 | 0.1 | 07/31/91 |
| 1017 | Chloride | | | 141 | SM 407 | 1.0 | 08/02/91 |
| 1019 | Carbonate CaCO3 | | | NOT ANALYZED | | | |
| 1021 | Hydroxide CaCO3 | | | NOT ANALYZED | | | |
| 1022 | Copper | | | <0.010 | EPA 200.7 | 0.010 | 07/31/91 |
| 1023 | Bicarbonate CaCO3 | | | NOT ANALYZED | | | |
| 1025 | Fluoride | | | 0.397 | EPA 340.2 | 0.1 | 08/03/91 |
| 1026 | Bicarbonate HCO3 | | | NOT ANALYZED | | | |
| 1027 | Hydrogen Sulfide | | | NOT ANALYZED | | | |
| 1028 | Iron | | | <0.100 | EPA 200.7 | 0.100 | 07/31/91 |
| 1031 | Magnesium | | | 22.0 | EPA 200.7 | 0.1 | 07/31/91 |
| 1032 | Manganese | | | <0.030 | EPA 200.7 | 0.030 | 07/31/91 |
| 1055 | Sulfate | | | 29.3 | EPA 375.4 | 1.0 | 08/01/91 |
| 1095 | Zinc | | | <0.050 | EPA 200.7 | 0.050 | 07/31/91 |
| 1901 | Carbon Dioxide | | | 2.7 | SM 406 C | 1.0 | 08/06/91 |
| 1905 | Color (color units) | | | <5.0 | EPA 270.2 | 5 PCU | 08/01/91 |
| 1915 | Total Hardness | | | 220.0 | EPA 200.7 | 0.050 | 07/31/91 |
| 1917 | NCH as CaCO3 | | | NOT ANALYZED | | | |
| 1920 | Odor | | | 32 | EPA 140.1 | 1 | 08/01/91 |
| 1924 | Field pH (units) | | | NOT ANALYZED | | | |
| 1925 | Lab pH (units) | | | 7.82 | EPA 150.1 | N/A | 08/01/91 |
| 1926 | Field Conductivity | | | NOT ANALYZED | | | |

ORLANDO LABORATORIES,INC.
Received: 07/31/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-07-478
Continued From Above

SAMPLE ID Sarasota Harbor #2541008
DATE COLLECTED 07/30/91 11:00:00
TEST NAME Secondary Chem. Analysis

SAMPLE# 02A
MATRIX WATER
TEST CODE PWS031

*** Contiued from above***
SECONDARY CHEMICAL ANALYSIS
17-550.320
(PWS031)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1927 | Total Alkalinity | | | 95.3 | EPA 310.1 | 2.0 | 08/01/91 |
| 1930 | TDS | | | 422 | EPA 160.1 | 1.0 | 08/02/91 |
| 1931 | Phenolphthalein Alk. | | | <2.0 | EPA 310.1 | 2.0 | 08/01/91 |
| 1996 | Field Temp. (C) | | | NOT ANALYZED | | | |
| 1997 | Langlier Index pHs | | | 7.8 | CALC | N/A | 08/06/91 |
| 1998 | Saturation Index | | | 0.02 | CALC | N/A | 08/06/91 |
| 1999 | Stability Index | | | 7.8 | CALC | N/A | 08/06/91 |
| 2909 | Foaming Agents | | | <0.10 | EPA 425.1 | 0.1 | 07/31/91 |
| 9996 | Field DO | | | NOT ANALYZED | | | |
| 9997 | Field Chlorine | | | NOT ANALYZED | | | |

Comments:

ORLANDO LABORATORIES,INC.
Received: 07/31/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-07-478

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME Organic Chemical Analysis

SAMPLE# 04A
MATRIX METHOD BLANK
TEST CODE PWS029

ORGANIC CHEMICAL ANALYSIS
17-550.310(2)(a)(b)
(PWS029)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|---|
| 2005 | Endrin | | | <0.00010 | | EPA 608 | 0.00010 | 08/02/91 |
| 2010 | Lindane | | | <0.00005 | | EPA 608 | 0.00005 | 08/02/91 |
| 2015 | Methoxychlor | | | <0.00050 | | EPA 608 | 0.00050 | 08/02/91 |
| 2020 | Toxaphene | | | <0.00100 | | EPA 608 | 0.00100 | 08/02/91 |
| 2105 | 2,4-D | | | <0.0020 | | EPA 615 | 0.0020 | 08/05/91 |
| 2110 | 2,4,5-TP (Silvex) | | | <0.0010 | | EPA 615 | 0.0010 | 08/05/91 |

Comments:

ORLANDO LABORATORIES, INC.

GC ORGANICS

# MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 08-09-1991

LAB SAMPLE # : 9108020-02B
ANALYSIS DATE : 08/05/91

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| 2,4,5-TP (silvex) | 100 | 0 | 84 | 84 | 89 | 89 | 6 |

COMMENTS :

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| 2,4,5-TP (silvex) | 53 | 175 | 35 | 50 | 130 | 35 |

ORLANDO LABORATORIES, INC.

GC ORGANICS

# MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 08-04-1991

LAB SAMPLE # : 910728-0 A
ANALYSIS DATE : 08/02/91

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| GAMMA-BHC (LINDANE) | 100 | 0 | 88 | 88 | 102 | 102 | 15 |
| HEPTACHLOR | 100 | 0 | 94 | 94 | 111 | 111 | 17 |
| ALDRIN | 100 | 0 | 111 | 111 | 117 | 117 | 5 |
| DIELDRIN | 100 | 0 | 108 | 108 | 119 | 119 | 10 |
| ENDRIN | 100 | 0 | 104 | 104 | 114 | 114 | 9 |
| 4,4-DDT | 100 | 0 | 94 | 94 | 106 | 106 | 12 |

COMMENTS :

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| GAMMA BHC (LINDANE) | 56 | 123 | 15 | 46 | 127 | 50 |
| HEPTACHLOR | 40 | 131 | 20 | 35 | 130 | 31 |
| ALDRIN | 40 | 120 | 22 | 34 | 132 | 43 |
| DIELDRIN | 52 | 126 | 18 | 31 | 134 | 38 |
| ENDRIN | 56 | 121 | 21 | 42 | 139 | 45 |
| 4,4-DDT | 38 | 127 | 27 | 23 | 134 | 50 |

Southern States Utilities
Attn: Paul Thompson

Repor.
Page .

## QUALITY CONTROL DATA SHEET

| PARAMETER | DUPLICATES % DIFFERENCE | SPIKES % RECOVERY | DATE | ANALY. |
|---|---|---|---|---|
| Turbidity | <1 | N/A | 08/01/91 | RG |
| Color | <1 | N/A | 08/01/91 | RG |
| Odor | <1 | N/A | 08/01/91 | PE |
| pH | 1 | N/A | 08/01/91 | PE |
| MBAS | <1 | 95 | 07/31/91 | JPN |
| Nitrite Nitrogen | <1 | 94 | 07/31/91 | SFC |
| Total Alkalinity | <1 | 97 | 08/01/91 | PE |
| Fluoride | <1 | 113 | 08/03/91 | KH |
| Nitrate Nitrogen | 1 | 108 | 08/02/91 | RAW |
| Chloride | <1 | 111 | 08/02/91 | PE |
| Sulfate | 5 | 105 | 08/01/91 | RG |
| Total Dissolved Solids | 1 | N/A | 08/02/91 | PE |
| Barium | 1 | 105 | 07/31/91 | TWB |
| Cadmium | 3 | 105 | 07/31/91 | TWB |
| Chromium | 1 | 99 | 07/31/91 | TWB |
| Sodium | 1 | 106 | 07/31/91 | TWB |
| Copper | 1 | 105 | 07/31/91 | TWB |
| Iron | 4 | 103 | 07/31/91 | TWB |
| Manganese | 1 | 102 | 07/31/91 | TWB |
| Zinc | 1 | 108 | 07/31/91 | TWB |
| Calcium | 1 | 93 | 07/31/91 | TWB |
| Magnesium | <1 | 108 | 07/31/91 | TWB |
| Lead | 1 | 95 | 08/04/91 | RJW |
| Silver | 1 | 90 | 08/04/91 | RJW |
| Arsenic | 1 | 86 | 08/02/91 | CJP |
| Selenium | 5 | 99 | 08/07/91 | CJP |
| Mercury | <1 | 110 | 08/08/91 | LG |

0095

**ORLANDO LABORATORIES, INC.**
P.O. Box 14912?, Orlando FL 32814
(407) 896-6645 FAX (407) 896-6588

# CHAIN-OF-CUSTODY RECORD
(INSTRUCTIONS ON BACK)

Page 5 of 5

| 1 ORIGINAL REPORT TO (COMPANY AND INDIVIDUAL) / ADDRESS (CITY STATE ZIP) | 2 CONTACT PERSON/PHONE # INVOICE | 3 O.L. WORK ORDER # (LAB USE) |
|---|---|---|
| SSU SERVICES 1000 COLOR PLACE APOPKA FL | | 9107478 |
| **4 ORIGINAL REPORT TO (COMPANY AND INDIVIDUAL) / ADDRESS (CITY STATE ZIP)** | **5 CONTACT PERSON/PHONE # REPORT** | **6 RB NUMBER (LAB USE)** |
| SSU SERVICES P.O. BOX 458 POMONA PARK, FL 32181 | PAUL THOMASON | 4647 |
| (OPTIONAL) ADDITIONAL REPORTS SENT TO / ADDRESS (CITY STATE ZIP) | | |
| **8 CLIENT PROJECT NAME** | **9 CLIENT PROJECT #** | |

| 10 SAMPLE IDENTIFICATION | 11 DATE/TIME | 12 COMP | GRAB | WATER | SOIL | OTHER | 13 SAMPLE DESCRIPTION | 17 NUMBER OF CONTAINERS | 18 REQUESTED ANALYSIS: PRIMARY (NUTRIENTS) | SECONDARY STANDARDS | TURBIDITY | PRIMARY ORGANICS | REMARKS 19 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WOOTENS # 2541210 | 7/30/91 11:30 | | ✓ | | | | DIST | 7 | ✓ | ✓ | ✓ | ✓ | |
| SARATOGA HARBOR # 2541008 | 7/30/91 11:00 | | ✓ | | | | DIST | 7 | ✓ | ✓ | ✓ | ✓ | |
| PARK MANOR # 2540873 | 7/30/91 8:00 | | ✓ | | | | DIST | 7 | ✓ | ✓ | ✓ | ✓ | |

| TRANSFER NUMBER | 14 RELINQUISHED BY | 15 DATE/TIME | 16 ACCEPTED BY |
|---|---|---|---|
| 1st | [signature] | 7/29 1210 | [signature] 7/30/91 |
| 2nd | [signature] | 7/31 1100 | [signature] |
| 3rd | | | |

20 ADDITIONAL REMARKS

21 COOLER

SAMPLER'S SIGNATURE

ORIGINAL - LAB
YELLOW - FILE
PINK - CLIENT

ORLANDO LABORATORIES INC.

P.O. Box 19127 • Orlando, Florida 32814 • (407) 896-6645

PLANT #448

## REPORT OF ANALYSIS

Southern States Utilities
Attn: Aaron Perlowich
1000 Color Place
Apopka, Florida 32703

Report #: 52433 (5982)
Sample submitted by: Client *
Date sampled: 06-15-88 @ 1400 hrs. *
Date received: 06-16-88
Date reported: 07-07-88
Date revised: 07-29-88


PURPOSE: To analyze the sample for listed parameters
AUTHORIZATION: Sample Identification Form received from client 06-16-88
SAMPLE IDENTIFICATION: Sample submitted and identified by client as: Saratoga Harbor.
PROCEDURE: EPA METHOD 624

### RESULTS, ug/l

| PURGEABLE ORGANICS BY GC/MS | RESULTS |
|---|---|
| Benzene | ND(1) |
| Bromodichloromethane | ND(1) |
| Bromoform | ND(1) |
| Bromomethane | ND(1) |
| Dibromomethane | ND(1) |
| Chlorobenzene | ND(1) |
| Chloroethane | ND(1) |
| 2-Chloroethylvinyl ether | ND(1) |
| Chloroform | ND(1) |
| Chloromethane | ND(1) |
| Dibromochloromethane | ND(1) |
| 1,1-Dichloroethane | ND(1) |
| Dichlorobenzene | ND(1) |
| 1,1-Dichloroethene | ND(1) |
| trans-1,2-Dichloroethene | ND(1) |
| 1,2-Dichloropropane | ND(1) |
| cis-1,3-Dichloropropene | ND(1) |
| trans-1,3-Dichloropropene | ND(1) |
| Ethylbenzene | ND(1) |
| Methylene Chloride | ND(1) |

* Sampling information based on data supplied by client.
ND = Not detected to the levels in parentheses.

Respectfully submitted,
ORLANDO LABORATORIES, INC.

Martin A. Zenon
Laboratory Manager

Martha Lasita Satterfield
Quality Control

OLI Florida Department of Health & Rehabilitative Service Identification Number is 83141.

*The Analytical Specialists*

PROCEDURE: EPA METHOD 624

| PURGEABLE ORGANICS BY GC/MS - Cont. | RESULTS |
|---|---|
| Styrene | ND(1) |
| 1,1,2,2-Tetrachloroethane | ND(1) |
| Dichloromethane | ND(1) |
| Toluene | ND(1) |
| 1,1-Dichloropropene | ND(1) |
| 1,1,2-Trichloroethane | ND(1) |
| 1,3-Dichloropropane | ND(1) |
| Trichlorofluoromethane | ND(1) |
| Bromobenzene | ND(1) |
| meta - Xylene | ND(1) |
| ortho, para - Xylenes | ND(1) |
| 1,2-Dibromo-3-chloropropane | ND(1) |
| Dichlorodifluoromethane | ND(1) |

| GC/MS VOLATILE SCAN | |
|---|---|
| Acrolein | ND(100) |
| Acrylonitrile | ND(100) |
| n-Hexane | ND(10) |
| 2,2-Dichloropropane | ND(1) |
| 1,1,1,2-Tetrachloroethane | ND(1) |
| 1,2,3-Trichloropropane | ND(1) |
| 1,3-Dichlorobenzene | ND(1) |
| 1,4-Dichlorobenzene | ND(1) |
| Trichloroethylene | ND(1) |
| Tetrachloroethylene | ND(1) |
| Carbon Tetrachloride | ND(1) |
| Vinyl Chloride | ND(1) |
| 1,1,1-Trichloroethane | ND(1) |
| 1,2-Dichloroethane | ND(1) |
| | ND(1) |

PROCEDURE: EPA METHOD 625

| ACID EXTRACTABLE ORGANICS BY GC/MS | |
|---|---|
| 4-Chloro-3-methyl phenol | ND(10) |
| 2-Chlorophenol | ND(10) |
| 2,4-Dichlorophenol | ND(10) |
| 2,4-Dimethylphenol | ND(10) |
| 2,4-Dinitrophenol | ND(10) |
| 2-Methyl-4,6-dinitrophenol | ND(10) |
| 2-Nitrophenol | ND(10) |
| 4-Nitrophenol | ND(10) |
| Pentachlorophenol | ND(10) |
| Phenol | ND(10) |
| 2,4,6-Trichlorophenol | ND(10) |

PROCEDURE: EPA METHOD 625

| BASE/NEUTRAL EXTRACTABLES BY GC/MS | RESULTS |
|---|---|
| Acenapthene | ND(10) |
| Acenapthylene | ND(10) |
| Anthracene | ND(10) |
| Benzidine | ND(50) |
| Benzo(a)anthracene | ND(10) |
| Benzo(b)fluoranthene | ND(10) |
| Benzo(k)fluoranthene | ND(10) |
| Benzo(a)pyrene | ND(10) |
| Benzo(g,h,i)perylene | ND(10) |
| Benzyl-butyl phthalate | ND(10) |
| bis(2-Chloroethyl)ether | ND(10) |
| bis(2-Chloroethoxy)methane | ND(10) |
| bis(2-Ethylhexyl)phthalate | ND(10) |
| bis(2-Chloroisopropyl)ether | ND(10) |
| 4-Bromophenyl phenyl ether | ND(10) |
| 2-Chloronaphthalene | ND(10) |
| o-Chlorotoluene | ND(10) |
| p-Chlorotoluene | ND(10) |
| 4-Chlorophenyl phenyl ether | ND(10) |
| Chrysene | ND(10) |
| Dibenzo(a,h)anthracene | ND(10) |
| Di-n-butyl-phthalate | ND(10) |
| 1,2-Dichlorobenzene | ND(10) |
| 1,3-Dichlorobenzene | ND(10) |
| 1,4-Dichlorobenzene | ND(10) |
| 3,3-Dichlorobenzidine | ND(10) |
| Diethyl phthalate | ND(10) |
| Dimethyl phthalate | ND(10) |
| 2,4-Dinitrotoluene | ND(10) |
| 2,6-Dinitrotoluene | ND(10) |
| Di-n-octyl-phthalate | ND(10) |
| 1,2-Diphenylhydrazine | ND(10) |
| Fluoranthene | ND(10) |
| Fluorene | ND(10) |

PROCEDURE: EPA METHOD 625

| BASE/NEUTRAL EXTRACTABLES BY GC/MS - Cont. | RESULTS |
|---|---|
| Hexachlorobenzene | ND(10) |
| Hexachlorobutadiene | ND(10) |
| Hexachlorocyclopentadiene | ND(10) |
| Hexachloroethane | ND(10) |
| Ideno(1,2,3-c,d)pyrene | ND(10) |
| Isophorone | ND(10) |
| Naphthalene | ND(10) |
| Nitrobenzene | ND(10) |
| n-Nitrosodimethylamine | ND(10) |
| n-Nitrosodi-n-propylamine | ND(10) |
| n-Nitrosodiphenylamine | ND(10) |
| Phenanthrene | ND(10) |
| Pyrene | ND(10) |
| 2,3,7,8-Tetrachlorodi-benzo-p-dioxin (dioxin) | ND(10) |
| 1,2,4-Trichlorobenzene | ND(10) |

PROCEDURE: EPA METHOD 608

| ORGANOCHLORINE PESTICIDES | |
|---|---|
| Alpha-BHC | ND(1) |
| Beta-BHC | ND(1) |
| Delta-BHC | ND(1) |
| Gamma-BHC | ND(1) |
| Heptachlor | ND(1) |
| Aldrin | ND(1) |
| Heptachlor epoxide | ND(1) |
| Endosulfan I | ND(1) |
| Dieldrin | ND(1) |
| 4,4'-DDE | ND(1) |
| O,p-DDE | ND(1) |
| Endosulfan II | ND(1) |
| 4,4'-DDD | ND(1) |
| O,p-DDD | ND(1) |
| Endosulfan sulfate | ND(1) |
| 4,4'-DDT | ND(1) |
| O,p-DDT | ND(1) |
| Endrin aldehyde | ND(1) |
| Alpha-Chlordane | ND(1) |
| Gamma-Chlordane | ND(1) |
| Kelthane | ND(1) |
| Toxaphene | ND(5) |

PROCEDURE: EPA METHOD 608

| POLYCHLORINATED BIPHENYLS, PCB's | SAMPLE |
|---|---|
| Arochlor 1016 | ND(5) |
| Arochlor 1221 | ND(5) |
| Arochlor 1232 | ND(5) |
| Arochlor 1242 | ND(5) |
| Arochlor 1248 | ND(5) |
| Arochlor 1254 | ND(5) |
| Arochlor 1260 | ND(5) |

PROCEDURE: EPA METHOD 622

| ORGANOPHOSPHORUS PESTICIDES | |
|---|---|
| Diazinon | ND(1) |
| Ethion | ND(1) |
| Guthion (Azinphos methyl) | ND(1) |
| Malathion | ND(1) |
| Parathion | ND(1) |
| Tedion | ND(1) |
| Trithion (Carbophenothion) | ND(1) |

| MISCELLANEOUS PRIORITY POLLUTANTS | |
|---|---|
| Temik®, Aldicarb (mg/l) | ND(0.01) |
| Ethylene Dibromide, EDB (ug/l) | ND(0.02) |

PURPOSE: To analyze the sample for Secondary Drinking Water Regulations
PROCEDURE: This water was analyzed according to "Standard Methods for the Examination of Water and Wastewater", 16th Edition, APHA, AWWA, and WPCF (1985).

## RESULTS

| DETERMINATION | (MCL) | RESULTS | UNITS |
|---|---|---|---|
| Chloride, Cl | (250) | 13 | mg/l |
| Color | (15) | <5 | PCU |
| Foaming Agents, (MBAS) | (0.5) | <0.1 | mg/l |
| Sulfate, $SO_4$ | (250) | 2.5 | mg/l |
| Total Dissolved Solids | (500) | 120 | mg/l |
| pH (Laboratory) | (6.5-8.5) | 8.8 | units |
| Odor Threshold | (3) | 1 | units |
| Copper, Cu | (1.0) | <0.010 | mg/l |
| Iron, Fe | (0.3) | <0.100 | mg/l |
| Manganese, Mn | (0.05) | <0.050 | mg/l |
| Zinc, Zn | (5) | <0.050 | mg/l |
| Phenolphthalein Alkalinity, $CaCO_3$ | | 7.8 | mg/l |
| Total Alkalinity, $CaCO_3$ | | 37 | mg/l |
| Carbonate Alkalinity, $CaCO_3$ | | 16 | mg/l |
| Bicarbonate Alkalinity, $CaCO_3$ | | 21 | mg/l |
| Carbonates, $CaCO_3$ | | 9.8 | mg/l |
| Bicarbonates, $HCO_3$ | | 45 | mg/l |
| Hydroxides, as OH | | 0 | mg/l |
| Carbon Dioxide, $CO_2$ | | <1 | mg/l |
| Fluoride, F | | 0.11 | mg/l |
| pHs | | 8.5 | units |
| Stability Index | | 8.2 | units |
| Specific Conductance, umhos | | 203 | umhos |
| Hydrogen Sulfide, $H_2S$ (F-P) | | <0.10 | mg/l |
| Nitrate Nitrogen, $NO_3$-N | | <0.03 | mg/l |
| Total Hardness, $CaCO_3$ | | 79.1 | mg/l |
| Magnesium Hardness, $CaCO_3$ | | 14.4 | mg/l |
| Calcium Hardness, $CaCO_3$ | | 64.7 | mg/l |
| Calcium, Ca | | 25.9 | mg/l |
| Magnesium, Mg | | 3.49 | mg/l |

PURPOSE: To analyze the sample for Primary Drinking Water Regulations
PROCEDURE: In accordance with Federal Register-Vol. 40, No. 248, Part IV-Wednesday, December 24, 1975. U.S. Environmental Protection Agency, National Interim Primary Drinking Water Regulations.

| | RESULTS, mg/l | |
|---|---|---|
| INORGANIC: | MCL | SAMPLE |
| Arsenic, As | 0.05 | <0.010 |
| Barium, Ba | 1.0 | <0.100 |
| Cadmium, Cd | 0.010 | <0.005 |
| Chromium, Cr | 0.05 | <0.010 |
| Lead, Pb | 0.05 | <0.010 |
| Mercury, Hg | 0.002 | <0.0005 |
| Selenium, Se | 0.01 | <0.005 |
| Silver, Ag | 0.05 | <0.010 |
| Nitrate Nitrogen, $NO_3$-N | 10 | <0.03 |
| Fluoride, F | 2.0 | 0.11 |

| ORGANIC | "ORGANIC ANALYSES BY GAS CHROMATOGRAPHIC SCREENING" | |
|---|---|---|
| Endrin | 0.0002 | ND(0.0001) |
| Lindane | 0.004 | ND(0.001) |
| Methoxychlor | 0.1 | ND(0.01) |
| Toxaphene | 0.005 | ND(0.005) |
| 2,4-D | 0.1 | ND(0.01) |
| 2,4,5-TP (Silvex) | 0.01 | ND(0.001) |

MCL = Maximum Contaminant Level.

ND = Not detected to the levels in parentheses.

PURPOSE: To analyze the samples for listed parameters
PROCEDURE: Standard Laboratory Procedures.

RESULTS, pCi/l

| DETERMINATION | STORET # | SARATOGA HARBOR |
|---|---|---|
| Gross Alpha | #01051 | <0.5 |
| Counting error | #01502 | ±0.9 |

RESULTS, mg/l

| DETERMINATION | ENTRY POINT TO DISTRIBUTION |
|---|---|
| Total Dissolved Solids, TDS | 120 |
| pH, units | 8.7 |
| Corrosivity | +0.20 |
| Total Alkalinity, $CaCO_3$ | 37 |
| Sodium, Na | 11.0 |
| Turbidity, NTU | <1.0 |
| Calcium Hardness, $CaCO_3$ | 67.7 |

## QUALITY CONTROL DATA SHEET

DUPLICATES:

| PARAMETER | % DIFFERENCE | DATE | ANALYST |
|---|---|---|---|
| Lindane | 10.4 | 06-20-88 | R.M. |
| Endrin | 14.3 | 06-20-88 | R.M. |
| Methoxychlor | 16.1 | 06-20-88 | R.M. |
| Diazinon | 3.8 | 06-14-88 | R.M. |
| Malathion | <1.0 | 06-14-88 | R.M. |
| Trithion | 3.6 | 06-14-88 | R.M. |
| Ethion | 3.4 | 06-14-88 | R.M. |
| 2,4-D | 1.1 | 06-24-88 | J.H. |
| 2,4,5-TP | 5.3 | 06-24-88 | J.H. |
| TDS | <1.0 | 06-20-88 | C.G. |
| Total Alkalinity | 2.5 | 06-17-88 | C.F. |
| Chloride | <1 | 06-23-88 | P.S. |
| Sulfate | 4.8 | 06-24-88 | C.G. |
| Fluoride | <1.0 | 06-23-88 | C.F. |
| pH | <1.0 | 06-17-88 | C.F. |
| Color | <1.0 | 06-18-88 | C.F. |
| Odor | <1.0 | 06-18-88 | C.F. |
| Turbidity | <1.0 | 06-18-88 | C.F. |
| Hydrogen Sulfide | <1.0 | 06-21-88 | C.F. |
| Sodium | 1.3 | 06-20-88 | C.F. |
| MBAS | <1.0 | 06-17-88 | M.M. |
| Specific Conductance | <1.0 | 06-20-88 | C.G. |
| Nitrates | 4.0 | 06-21-88 | C.G. |
| Arsenic | 1.1 | 06-24-88 | C.G. |
| Barium | <1.0 | 06-30-88 | C.G. |
| Cadmium | 2.2 | 06-23-88 | A.H. |
| Chromium | <1.0 | 06-27-88 | A.H. |
| Lead | 2.7 | 06-23-88 | A.H. |
| Mercury | <1.0 | 06-24-88 | J.H. |
| Selenium | 3.9 | 06-24-88 | C.G. |
| Silver | <1.0 | 06-24-88 | C.G. |
| Calcium | <1.0 | 06-30-88 | C.G. |
| Magnesium | <1.0 | 06-30-88 | C.G. |
| Iron | 2.2 | 06-30-88 | C.G. |
| Manganese | <1.0 | 06-28-88 | C.G. |
| Copper | <1.0 | 06-28-88 | C.G. |
| Zinc | <1.0 | 06-28-88 | C.G. |
| Gross Alpha | <1.0 | 06-23-88 | J.B. |
| Aldicarb | 6.1 | 06-22-88 | J.H. |
| EDB | 1.0 | 06-21-88 | J.H. |

## QUALITY CONTROL DATA SHEET

SPIKES:

| PARAMETER | % RECOVERY | DATE | ANALYST |
|---|---|---|---|
| Lindane | 73 | 06-20-88 | R.M. |
| Endrin | 81 | 06-20-88 | R.M. |
| Methoxychlor | 73 | 06-20-88 | R.M. |
| Diazinon | 106 | 06-14-88 | R.M. |
| Malathion | 103 | 06-14-88 | R.M. |
| Trithion | 83 | 06-14-88 | R.M. |
| Ethion | 90 | 06-14-88 | R.M. |
| 2,4-D | 91 | 06-24-88 | J.H. |
| 2,4,5-TP | 75 | 06-24-88 | J.H. |
| TDS | 95/95 | 06-20-88 | C.G. |
| Total Alkalinity | 96/98 | 06-17-88 | C.F. |
| Chloride | 99/99 | 06-23-88 | P.S. |
| Sulfate | 104/99 | 06-24-88 | C.G. |
| Fluoride | 105/106 | 06-23-88 | C.F. |
| Hydrogen Sulfide | 96/96 | 06-21-88 | C.F. |
| Sodium | 98/100 | 06-20-88 | C.F. |
| MBAS | 99/100 | 06-17-88 | M.M. |
| Specific Conductance | 95/96 | 06-20-88 | C.G. |
| Nitrates | 93/96 | 06-21-88 | C.G. |
| Arsenic | 96 | 06-24-88 | C.G. |
| Barium | 100 | 06-30-88 | C.G. |
| Cadmium | 103 | 06-23-88 | A.H. |
| Chromium | 93 | 06-27-88 | A.H. |
| Lead | 103 | 06-23-88 | A.H. |
| Mercury | 100 | 06-24-88 | J.H. |
| Selenium | 91 | 06-24-88 | C.G. |
| Silver | 100 | 06-24-88 | C.G. |
| Calcium | 102 | 06-30-88 | C.G. |
| Magnesium | 101 | 06-30-88 | C.G. |
| Iron | 100 | 06-30-88 | C.G. |
| Manganese | 101 | 06-28-88 | C.G. |
| Copper | 98 | 06-28-88 | C.G. |
| Zinc | 107 | 06-28-88 | C.G. |
| Gross Alpha | 92/92 | 06-23-88 | J.B. |
| Aldicarb | 114 | 06-22-88 | J.H. |
| EDB | 99 | 06-21-88 | J.H. |

State of Florida
Department of Health and Rehabilitative Services
Office of Laboratory Services
P.O. Box 210
Jacksonville, Florida 32231

I.D. No. 17003

FOR LAB USE ONLY

Dec 4 1 58 PM '91

BY: D ATLANTIC

12/5

# DRINKING WATER
# BACTERIOLOGICAL ANALYSIS

SYSTEM NAME: Saratoga Harbor SYSTEM I.D. NO: 2541008 SYSTEM PHONE #: 649-4143

ADDRESS: Gibbs Dr. COUNTY: Putnam DER DISTRICT: 2

COLLECTOR: R Be[illegible]n COLLECTOR PHONE #: 649-4143

SAMPLE SITE (Locality or Subdivision): Subdivision

DATE AND TIME COLLECTED: 12/4/91 9:30

TYPE OF SUPPLY(Circle one): (Community water system) Noncommunity water system Nontransient - noncommunity water system
Private well Swimming pool Bottled water: Other public water system

TYPE OF SAMPLE(Circle one): (Compliance) Repeat Replacement Main clearance Well survey Other _____ (Specify)
(Check Box)
[x] Distribution
[ ] Raw

Replacement
(Check Box)
[ ] THTC or C:
[ ] Turbid
[ ]

REMARKS:

| TO BE COMPLETED BY COLLECTOR OF SAMPLE | | | | TO BE COMPLETED BY LAB | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ANALYSIS METHOD: | MF | MTF | MMO-MUG | PA | |
| COLL. NO. | SAMPLE POINT (Specific Address) | Cl RES'D | pH | SAMPLE NUMBER | NON COLIFORM | *TOTAL | CONFIRM TOTAL | CONFIRM FECAL |
| 1 | Well | | 7.4 | 01600 | M | A | | |
| 2 | Dist. 1 Lot # D | .2 | | C1667 | | A | | |
| 3 | Dist 2 Lot 23-F | .2 | | 01668 | | A | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

* Results in this column are preliminary. Fecal coliform confirmation on community and noncommunity water systems and total coliform confirmation on all types of water systems will follow in 24-48 hours.

P - Coliforms are present C - Confluent growth TA - Turbid, Absence of gas or acid
A - Coliforms are absent TNTC - Too numerous to count

INTERPRETATIONS-REMARKS BY PROGRAM REVIEWER

David A. Rodriguez, Engineer
Dept. of Env. Regulation

DEC 12 1991

( ) SATISFACTORY
( ) INCOMPLETE COLLECTION INFORMATION
( ) REPEAT SAMPLES
( ) REPLACEMENT SAMPLES

NAME AND MAILING ADDRESS OF PERSON/FIRM TO RECEIVE REPORT

SSU SERVICES
*Putnam County Office*
*P. O. Box 458*
*Pomona Park, FL 32181*

REVIEWING OFFICIAL: _____

TITLE: _____

HRS Form 866, Jan 91 (Obsolete previous editions which may not be used) (Stock Number: 5720-000-0866-1)

# Silver Lake Estates - 574

**Lake County (SSU)**

**Water**

**- 1992 FPSC Filing -**

# Silver Lake Oaks

## Chemical Analyses

The most recent chemical analyses for the water system conducted by a certified laboratory covering the inorganic, organic, turbidity, microbiological, radionuclide, secondary and unregulated contaminants.

| Chemical Analysis | Date Taken |
|---|---|
| Inorganic | * |
| Organic | * |
| Volatile Organic Chemicals | 1/91 |
| | 4/91 |
| | 7/91 |
| | 10/91 |
| Turbidity | * |
| Microbiological | 12/91 |
| Radionuclide | 8/91 |
| Secondary Contaminants | * |
| Unregulated Contaminants | 1/91 |

* The Silver Lake Oaks system was not acquired until October 1989. The previous owner took the inorganic, organic, and secondary samples. SSU is scheduled to take the organic sample in March, 1992 and the inorganic and secondaries in April, 1992.

# ORLANDO LABORATORIES INC

P/Bnd File

P.O. Box 149127 • Orlando, Florida 32814

REPORT OF ANALYSIS

Southern States Utilities
1000 Color Place
Apopka, Florida 32703

Attn: Aaron Perlowich

Work Order # : 90-09-234
Date Received: 09/20/90
Date Reported: 10/01/90
OLI Contact: E_HOBBS

Work ID: 574 Silver Lakes #335/182
Total Samples: 2

Sampling information is based on data supplied by Client

| SAMPLE IDENTIFICATION | TEST CODES and NAMES used on this report |
|---|---|
| 01 Distribution | PWS026 Turbidity Analysis |
| 02 Method Blank | PWS029 Organic Chemical Analysis |
| | PWS030 Inorganic Analysis |
| | PWS031 Secondary Chem. Analysis |
| | PWS033 Radiological Analysis |

OLI Florida Department of Health & Rehabilitative Service Identification Numbers are: Drinking Water Certification Number 83141. Environmental Certification Number E83033

Respectfully Submitted,
ORLANDO LABORATORIES, INC.

Acting
LABORATORY DIRECTOR

Eric Malarek
QUALITY CONTROL

*Dedicated To Excellence*

(407) 896-6645 (800) 826-8320 FAX (407) 898-6588

# PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 3351182
Public Water System Name: Silver Lakes
Public Water System Type (check one):
(✓) Community ( ) Non-community ( ) Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: 83141
Parameter Group(s) Analyzed: Turbidity, Organic Chemistry, Radiological, Inorganics, Secondaries,
Subcontracted Lab Certification Number (if any): N/A

**SAMPLE INFORMATION**
Sample Date (MMDDYY): 09 / 20 / 90
Laboratory Sample Number: 90-09-234
Sample Location (be specific):
Sample Type (check all applicable):
( ) Check (✓) Regular Distribution ( ) Composite
( ) Clearance ( ) Maximum Residence Time ( ) Plant Tap
(✓) Raw ( ) Well ( ) Re-sample
(✓) Special
Sampler Name, Title, Phone: Don Corder, Area Supervisor, 880-0058

09/20/90 PWS#29 09/21/90 PWS#29

**ANALYSIS INFORMATION**
Extraction Date (MMDDYY): / /
Laboratory Contact: Eric Malarek
Re-sample Requested? (check one): ( ) Yes ( ) No
ANALYSES SUBMITTED: Turbidity ✓; Inorganic ✓; Trihalomethane ___; Volatile Organic ___; Organic Chemical ✓;
Secondary Chemical ✓; Radiological ✓; Unregulated Organic Purgeable ___; Unregulated Organic Pesticide ___;
Unregulated Base Neutral Extractable ___; Unregulated Acid Extractable ___; (Check all analyses which apply.)

I do HEREBY CERTIFY that all data submitted is correct.

Signature Eric Malarek

Name Eric Malarek

Title Quality Control Officer

Laboratory Orlando Laboratories, Inc.

Date 10/2/90

Mail Results to the Appropriate DER or ACPHU Office:

DER/ACPHU Reviewing Official:

Sample Interpretation (check one)
( ) Satisfactory ( ) Unsatisfactory

ORLANDO LABORATORIES,INC.
Received: 09/20/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-09-234

SAMPLE ID Distribution
DATE COLLECTED 09/20/90 09:30:00
TEST NAME Turbidity Analysis

SAMPLE# 01A
MATRIX WATER
TEST CODE PWS026

TURBIDITY ANALYSIS
17-550.310(3)
(PWS026)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(NTU) | Analytical Method | Analysis Date |
|---|---|---|---|---|---|---|
| 0100 | Turbidity | | | <1.0 | EPA 180.1 | 09/21/90 |

Comments:

ORLANDO LABORATORIES,INC.
Received: 09/20/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-09-234

SAMPLE ID Distribution
DATE COLLECTED 09/20/90 09:30:00
TEST NAME Organic Chemical Analysis

SAMPLE# 01A
MATRIX WATER
TEST CODE PWS029

ORGANIC CHEMICAL ANALYSIS
17-550.310(2)(a)(b)
(PWS029)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|---|
| 2005 | Endrin | | | 0.00010 | U | EPA 608 | 0.00010 | 09/22/90 |
| 2010 | Lindane | | | 0.00005 | U | EPA 608 | 0.00005 | 09/22/90 |
| 2015 | Methoxychlor | | | 0.00050 | U | EPA 608 | 0.00050 | 09/22/90 |
| 2020 | Toxaphene | | | 0.00100 | U | EPA 608 | 0.00100 | 09/22/90 |
| 2105 | 2,4-D | | | 0.0020 | U | EPA 615 | 0.0020 | 09/21/90 |
| 2110 | 2,4,5-TP (Silvex) | | | 0.0010 | U | EPA 615 | 0.0010 | 09/21/90 |

Comments:

ORLANDO LABORATORIES,INC.
Received: 09/20/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-09-234

SAMPLE ID Distribution
DATE COLLECTED 09/20/90 09:30:00
TEST NAME Inorganic Analysis

SAMPLE# 01A
MATRIX WATER
TEST CODE PWS030

INORGANIC ANALYSIS
17-550.310(1)
(PWS030)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1005 | Arsenic | | | <0.010 | EPA 206.2 | 0.010 | 09/26/90 |
| 1010 | Barium | | | <0.100 | EPA 200.7 | 0.100 | 09/27/90 |
| 1015 | Cadmium | | | <0.005 | EPA 213.2 | 0.005 | 09/27/90 |
| 1020 | Chromium | | | <0.010 | EPA 218.2 | 0.010 | 09/27/90 |
| 1025 | Fluoride | | | 0.12 | EPA 340.2 | 0.1 | 09/26/90 |
| 1030 | Lead | | | <0.010 | EPA 239.2 | 0.010 | 09/27/90 |
| 1035 | Mercury | | | <0.0005 | EPA 245.1 | 0.0005 | 09/26/90 |
| 1040 | Nitrate (as N) | | | 1.6 | EPA 352.2 | 0.03 | 09/26/90 |
| 1045 | Selenium | | | <0.005 | EPA 270.2 | 0.005 | 09/26/90 |
| 1050 | Silver | | | <0.010 | EPA 272.2 | 0.010 | 09/27/90 |
| 1052 | Sodium | | | 5.10 | EPA 200.7 | 0.001 | 09/27/90 |

Comments:

ORLANDO LABORATORIES,INC.
Received: 09/20/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-09-234

SAMPLE ID Distribution
DATE COLLECTED 09/20/90 09:30:00
TEST NAME Secondary Chem. Analysis

SAMPLE# 01A
MATRIX WATER
TEST CODE PWS031

SECONDARY CHEMICAL ANALYSIS
17-550.320
(PWS031)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1016 | Calcium | | | 29.0 | EPA 200.7 | 0.1 | 09/27/90 |
| 1017 | Chloride | | | 11 | SM 407 | 1.0 | 09/21/90 |
| 1019 | Carbonate CaCO3 | | | NOT ANALYZED | | | |
| 1021 | Hydroxide CaCO3 | | | NOT ANALYZED | | | |
| 1022 | Copper | | | <0.010 | EPA 200.7 | 0.010 | 09/27/90 |
| 1023 | Bicarbonate CaCO3 | | | NOT ANALYZED | | | |
| 1025 | Fluoride | | | 0.12 | EPA 340.2 | 0.1 | 09/26/90 |
| 1026 | Bicarbonate HCO3 | | | NOT ANALYZED | | | |
| 1027 | Hydrogen Sulfide | | | NOT ANALYZED | | | |
| 1028 | Iron | | | <0.100 | EPA 200.7 | 0.100 | 09/27/90 |
| 1031 | Magnesium | | | NOT ANALYZED | | | |
| 1032 | Manganese | | | <0.050 | EPA 200.7 | 0.050 | 09/27/90 |
| 1055 | Sulfate | | | 9.3 | EPA 375.4 | 1.0 | 09/26/90 |
| 1095 | Zinc | | | <0.050 | EPA 200.7 | 0.050 | 09/27/90 |
| 1901 | Carbon Dioxide | | | 2.2 | SM 406 C | 1.0 | 09/28/90 |
| 1905 | Color (color units) | | | <5.0 | EPA 270.2 | 5 PCU | 09/21/90 |
| 1915 | Total Hardness | | | 73.0 | EPA 200.7 | 0.050 | 09/27/90 |
| 1917 | NCH as CaCO3 | | | NOT ANALYZED | | | |
| 1920 | Odor | | | 2.0 | EPA 140.1 | 1 | 09/21/90 |
| 1924 | Field pH (units) | | | * 7.0 | ** | N/A | 09/20/90 |
| 1925 | Lab pH (units) | | | 7.86 | EPA 150.1 | N/A | 09/21/90 |
| 1926 | Field Conductivity | | | * 486 ohms | EPA 120.1 | N/A | 09/20/90 |

ORLANDO LABORATORIES,INC.
Received: 09/20/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-09-234
Continued From Above

SAMPLE ID Distribution
DATE COLLECTED 09/20/90 09:30:00
TEST NAME Secondary Chem. Analysis

SAMPLE# 01A
MATRIX WATER
TEST CODE PWS031

*** Contiued from above***
SECONDARY CHEMICAL ANALYSIS
17-550.320
(PWS031)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1927 | Total Alkalinity | | | 81 | EPA 310.1 | 2.0 | 09/21/90 |
| 1930 | TDS | | | 200 | EPA 160.1 | 1.0 | 09/24/90 |
| 1931 | Phenolphthalein Alk. | | | <2.0 | EPA 310.1 | 2.0 | 09/21/90 |
| 1996 | Field Temp. (C) | | | * 25.5 | EPA 170.1 | N/A | 09/20/90 |
| 1997 | Langlier Index pHs | | | 8.07 | CALC | N/A | 09/28/90 |
| 1998 | Saturation Index | | | -0.21 | CALC | N/A | 09/28/90 |
| 1999 | Stability Index | | | 8.28 | CALC | N/A | 09/28/90 |
| 2909 | Foaming Agents | | | <0.10 | EPA 425.1 | 0.1 | 09/21/90 |
| 9996 | Field DO | | | * 7.0 | EPA 360.1 | 0.1 | 09/20/90 |
| 9997 | Field Chlorine | | | * 1.5 | ** | 0.02 | 09/20/90 |

Comments:
* denotes field results supplied by the client.
** Method not furnished by client.

ORLANDO LABORATORIES,INC.
Received: 09/20/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-09-234

SAMPLE ID Distribution
DATE COLLECTED 09/20/90 09:30:00
TEST NAME Radiological Analysis

SAMPLE# 01A
MATRIX WATER
TEST CODE PWS033

RADIOLOGICAL ANALYSIS
17-550.310(5)
(PWS033)

| Parameter ID | Name | Sample Number | Analysis Result(pCi/l) | Analytical Method | Analysis Error | Analysis Date |
|---|---|---|---|---|---|---|
| 4002 | Gross Alpha | | 2.2 | EPA 900.0 | +/- 1.5 | 09/26/90 |
| 4006 | Total Uranium | | N/A | | | |
| 4010 | Total Radium | | N/A | | | |
| 4020 | Radium-226 | | N/A | | | |
| 4030 | Radium-228 | | N/A | | | |
| 4100 | Gross Beta | | N/A | | | -- |

Comments:

ORLANDO LABORATORIES, INC.
Received: 09/20/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-09-234

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME Organic Chemical Analysis

SAMPLE# 02A
MATRIX METHOD BLANK
TEST CODE PWS029

ORGANIC CHEMICAL ANALYSIS
17-550.310(2)(a)(b)
(PWS029)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|---|
| 2005 | Endrin | | | 0.00010 | U | EPA 608 | 0.00010 | 09/22/90 |
| 2010 | Lindane | | | 0.00005 | U | EPA 608 | 0.00005 | 09/22/90 |
| 2015 | Methoxychlor | | | 0.00050 | U | EPA 608 | 0.00050 | 09/22/90 |
| 2020 | Toxaphene | | | 0.00100 | U | EPA 608 | 0.00100 | 09/22/90 |
| 2105 | 2,4-D | | | 0.0020 | U | EPA 615 | 0.0020 | 09/21/90 |
| 2110 | 2,4,5-TP (Silvex) | | | 0.0010 | U | EPA 615 | 0.0010 | 09/21/90 |

Comments:

Southern States Utilities
Attn: Aaron Perlowich

Report No: 90-09-234
Page No: 9

## QUALITY CONTROL DATA SHEET

| PARAMETER | DUPLICATES % DIFFERENCE | SPIKES % RECOVERY | DATE | ANALYST |
|---|---|---|---|---|
| Mercury | <1 | 106 | 09/26/90 | LG |
| Arsenic | <1 | 90 | 09/26/90 | CFG |
| Selenium | <1 | 101 | 09/26/90 | CFG |
| Lead | <1 | 108 | 09/25/90 | JC |
| Barium | <1 | 98 | 09/27/90 | BB |
| Cadmium | <1 | 103 | 09/27/90 | BB |
| Chromium | <1 | 102 | 09/27/90 | BB |
| Sodium | 4 | 108 | 09/27/90 | BB |
| Copper | 4 | 99 | 09/27/90 | BB |
| Iron | <1 | 104 | 09/27/90 | BB |
| Manganese | <1 | 100 | 09/27/90 | BB |
| Zinc | 8 | 97 | 09/27/90 | BB |
| Calcium | 1 | 92 | 09/27/90 | BB |
| Silver | <1 | 94 | 09/27/90 | BB |
| Color | <1 | N/A | 09/21/90 | CM |
| Odor | <1 | N/A | 09/21/90 | CM |
| Chloride | 2 | 95 | 09/21/90 | RAW |
| Turbidity | 5 | N/A | 09/21/90 | RAW |
| pH | <1 | N/A | 09/21/90 | CM |
| MBAS | <1 | 99 | 09/21/90 | CM |
| Nitrogen, Nitrite | <1 | 99 | 09/21/90 | CM |
| Total Alkalinity | 3 | 96 | 09/21/90 | CM |
| TDS | 9 | N/A | 09/24/90 | RJW |
| Sulfate | 3 | 97 | 09/26/90 | RAW |
| Fluoride | <1 | 98 | 09/26/90 | KM |
| Nitrogen, Nitrate | <1 | 95 | 09/26/90 | DR |
| Gross Alpha | 0.2 | 96 | 09/27/90 | JAB |

NOTE: The duplicate for Gross Alpha is reported as actual difference rather than percent difference as specified.

ORLANDO LABORATORIES, INC.

GC ORGANICS Page No: 10

# MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 09-25-1990

LAB SAMPLE # : 9009228-01a
ANALYSIS DATE : 09/22/90

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| GAMMA-BHC (LINDANE) | 100 | 0 | 114 | 114 | 114 | 114 | 0 |
| HEPTACHLOR | 100 | 0 | 120 | 120 | 120 | 120 | 0 |
| ALDRIN | 100 | 0 | 121 | 121 * | 114 | 114 | 6 |
| DIELDRIN | 100 | 0 | 119 | 119 | 120 | 120 | 1 |
| ENDRIN | 100 | 0 | 126 | 126 * | 127 | 127 * | 1 |
| 4,4-DDT | 100 | 0 | 129 | 129 * | 123 | 123 | 5 |

COMMENTS : * = parameter outside QC limits.

## MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| GAMMA-BHC (LINDANE) | 56 | 123 | 15 | 46 | 127 | 50 |
| HEPTACHLOR | 40 | 131 | 20 | 35 | 130 | 31 |
| ALDRIN | 40 | 120 | 22 | 34 | 132 | 43 |
| DIELDRIN | 52 | 126 | 18 | 31 | 134 | 38 |
| ENDRIN | 56 | 121 | 21 | 42 | 139 | 45 |
| 4,4-DDT | 38 | 127 | 27 | 23 | 134 | 50 |

# MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 09-25-1990

LAB SAMPLE # : 9009217-01a
ANALYSIS DATE : 09/21/90

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| PICLORAM | 100 | 0 | 175 | 175 | 185 | 185 * | 6 |
| 2,4,5-TP (silver) | 100 | 0 | 110 | 110 | 114 | 114 | 4 |

COMMENTS : * = parameter outside QC limits.

## MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| PICLORAM | 80 | 175 | 30 | 80 | 175 | 30 |
| 2,4,5-TP (silver) | 80 | 175 | 30 | 80 | 175 | 30 |

End of Report

**ORLANDO LABORATORIES, INC.**
P.O. Box 149127, Orlando, FL 32814
(407) 896-6645 FAX (407) 898-6588

# CHAIN-OF-CUSTODY RECORD
(INSTRUCTIONS ON BACK)

Page 1 of 1

| 1 INVOICE TO (COMPANY AND INDIVIDUAL) / ADDRESS (CITY, STATE, ZIP) | 2 CONTACT PERSON/PHONE # INVOICE | 3 OLI WORK ORDER # (LAB USE) |
|---|---|---|
| SSU Utilities 1000 Color Place Apopka, Fla. 32703 | 880-0100 | 9009234 |
| **4 ORIGINAL REPORT TO (COMPANY AND INDIVIDUAL) / ADDRESS (CITY, STATE, ZIP)** | **5 CONTACT PERSON/PHONE # REPORT** | **6 RB NUMBER (LAB USE)** |
| Aaron Perlowich same as above | Same as above | 1830 |
| **7 (OPTIONAL) ADDITIONAL REPORTS SENT TO / ADDRESS (CITY, STATE, ZIP)** | **17 NUMBER OF CONTAINERS** | **18 REQUESTED ANALYSIS** |
| N/A | | Primary Inorganics, Lead, Cu<br>Secondary Inorganics<br>THM's, 1,2-DCA |
| **8 CLIENT PROJECT NAME** | **9 CLIENT PROJECT #** | |
| Silver Lakes | 574 | |

| 10 SAMPLE IDENTIFICATION | 11 DATE/TIME | 12 COMP | GRAB | WATER | SOIL | OTHER | 13 SAMPLE DESCRIPTION | 19 REMARKS |
|---|---|---|---|---|---|---|---|---|
| | 9/20/90 9:30 am | | ✓ | ✓ | | | Distribution | |

| TRANSFER NUMBER | 14 RELINQUISHED BY | 15 DATE/TIME | 16 ACCEPTED BY |
|---|---|---|---|
| 1st | [signature] | 9/21 9:00 | |
| 2nd | Lana Shaffer | 9/20 2:10pm | Deedee Homan |
| 3rd | | | |

**20 ADDITIONAL REMARKS**

**21 COOLER #'s**

**22** Dennis W. Mord
SAMPLER'S SIGNATURE

ORIGINAL - LAB
YELLOW - FILE
PINK - CLIENT

0121

SSU SERVICES

**General Offices**
1000 Color Place
Apopka, FL 32703
(407) 880-0058

April 30, 1991

Ms. Marie Carrasquillo
State of Florida
Department of Environmental Regulations
3319 Maguire Boulevard
Suite 232
Orlando, Florida 32803-3767

Re: Wedgewood PWS ID #3354701
Silver Lakes PWS ID #3351182
Western Shores PWS ID #3351464

Dear Ms. Carrasquillo,

Enclosed please find results for Volatile Organic Analysis, Unregulated Organic Purgeables, Unregulated Organic Pesticides, Unregulated Base Neutral Extracts and Unregulated Acid Extractables for the above referenced facilities.

Please enter this information into your records.

Sincerely,

SSU Services
Donald B. Corder

Donald B. Corder
Area Supervisor

DBC/jlm
cc: Charles Sweat
Frank Sanderson
Ralph Terrero
Clara Dozier
File

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Apr18 1991
PO Number: B91051

PO Number
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WATER SAMPLE
Date Received: Mar26 1991 Lab Number : 16542

REPORT OF ANALYSIS

Silver Lakes

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16542 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 95.4 | 5.11 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 115 | 8.65 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 108 | .790 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 108 | .790 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 112 | 8.27 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 101 | .406 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 102 | 1.06 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 112 | .654 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 119 | 5.18 | <0.001 |
| Benzene | mg/L | 0.001 | 93.8 | .469 | <0.001 |
| Chloromethane | mg/L | 0.001 | 113 | .805 | <0.001 |
| Dichlorodifluorometh | mg/L | 0.001 | 102 | 1.06 | <0.001 |
| Bromomethane | mg/L | 0.001 | 113 | .805 | <0.001 |
| Chloroethane | mg/L | 0.001 | 108 | .790 | <0.001 |
| Trichlorofluorometha | mg/L | 0.001 | 102 | 1.06 | <0.001 |
| trans-1,3,-dichlorop | mg/L | 0.001 | 110 | .789 | <0.001 |
| cis-1,3-dichloroprop | mg/L | 0.001 | 114 | 6.25 | <0.001 |
| Methyl-tert-butyleth | mg/L | 0.001 | 105 | 4.91 | <0.001 |
| cis-1,2-dichloroethe | mg/L | 0.001 | 114 | 6.25 | <0.001 |
| Dibromomethane | mg/L | 0.001 | 113 | .805 | <0.001 |
| 1,1-dichloropropene | mg/L | 0.001 | 103 | 0.78 | <0.001 |
| 1,3-dichloropropane | mg/L | 0.001 | 110 | .789 | <0.001 |
| 1,2,3-trichloropropa | mg/L | 0.001 | 108 | 8.11 | <0.001 |
| 2,2-dichloropropane | mg/L | 0.001 | 108 | .790 | <0.001 |
| 1,2-dibromo-3-chloro | mg/L | 0.001 | 108 | 8.11 | <0.001 |
| Chloroform | mg/L | 0.001 | 87.2 | .055 | <0.001 |

Data Release Authorization

Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director

Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P O BOX 950597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-4984

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Apr18 1991
PO Number: 891051

PO Number
FDHRS Lab# : 83139
FDER Lab# : EB3018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WATER SAMPLE
Date Received: Mar26 1991 Lab Number : 16542

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16542 |
|---|---|---|---|---|---|
| Bromoform | mg/L | 0.001 | 118 | 7.84 | <0.001 |
| Bromodichloromethane | mg/L | 0.001 | 102 | 3.28 | <0.001 |
| Dibromochloromethane | mg/L | 0.001 | 116 | 3.14 | <0.001 |
| p-xylene | mg/L | 0.001 | 109 | 7.34 | <0.001 |
| Methylene chloride | mg/L | 0.001 | 113 | .805 | <0.001 |
| o-chlorotoluene | mg/L | 0.001 | 107 | 3.22 | <0.001 |
| p-chlorotoluene | mg/L | 0.001 | 94.7 | 2.11 | <0.001 |
| m-dichlorobenzene | mg/L | 0.001 | 116 | 8.44 | <0.001 |
| o-dichlorobenzene | mg/L | 0.001 | 114 | 5.62 | <0.001 |
| 1,1-dichloroethane | mg/L | 0.001 | 101 | .393 | <0.001 |
| trans-1,2-dichloroet | mg/L | 0.001 | 102 | 3.72 | <0.001 |
| 1,2-dichloropropane | mg/L | 0.001 | 103 | .462 | <0.001 |
| 1,1,2-trichloroethan | mg/L | 0.001 | 120 | 4.60 | <0.001 |
| 1,1,1,2-tetrachloroe | mg/L | 0.001 | 112 | 3.76 | <0.001 |
| 1,1,2,2-tetrachloroe | mg/L | 0.001 | 118 | 8.78 | <0.001 |
| Chlorobenzene | mg/L | 0.001 | 109 | .539 | <0.001 |
| Toluene | mg/L | 0.001 | 94.7 | 2.11 | <0.001 |
| Ethylbenzene | mg/L | 0.001 | 99.5 | 3.11 | <0.001 |
| Bromobenzene | mg/L | 0.001 | 109 | .539 | <0.001 |
| m-xylene | mg/L | 0.001 | 109 | 7.34 | <0.001 |
| Styrene | mg/L | 0.001 | 94.7 | 2.11 | <0.001 |
| o-xylene | mg/L | 0.001 | 109 | 7.34 | <0.001 |
| Dalapon | mg/L | 0.000001 | 99.8 | 5.32 | <0.000001 |
| Oxamyl (Vydate) | mg/L | 0.002 | 93.8 | 5.66 | <0.002 |
| Simazine | mg/L | 0.007 | 102 | 1.73 | <0.007 |
| Picloram | mg/L | 0.00007 | 97.0 | 11.7 | <0.00007 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director

Jefferson S. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
451 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
PHONE (407) 339-4284

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Apr18 1991
PO Number: 891051

PO Number
FDHRS Lab# : 83139
FDER Lab# : EB3018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WATER SAMPLE
Date Received: Mar26 1991 Lab Number : 16542

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16542 |
|---|---|---|---|---|---|
| Dinoseb | mg/L | 0.00001 | 107 | 1.32 | <0.00001 |
| Aldicarb sulfoxide | mg/L | 0.002 | 95.8 | 5.54 | <0.002 |
| Aldicarb sulfone | mg/L | 0.002 | 95.0 | 8.19 | <0.002 |
| Metolachlor | mg/L | 0.0005 | 98.5 | 3.59 | <0.0005 |
| Carbofuran | mg/L | 0.001 | 97.0 | .000 | <0.001 |
| Aldicarb | mg/L | 0.002 | 110 | 5.81 | <0.002 |
| Atrazine | mg/L | 0.002 | 101 | 1.74 | <0.002 |
| Alachlor (Lasso) | mg/L | 0.0002 | 101 | 7.04 | <0.0002 |
| Heptachlor | mg/L | 0.000005 | 102 | .834 | <0.000005 |
| Aldrin | mg/L | 0.00007 | 110 | .642 | <0.00007 |
| Dieldrin | mg/L | 0.00001 | 97.1 | 8.88 | <0.00001 |
| Dicamba | mg/L | 0.00001 | 91.8 | 8.86 | <0.00001 |
| Chlordane | mg/L | 0.00001 | 101 | 2.39 | <0.00001 |
| Pentachlorophenol | mg/L | 0.005 | 102 | .415 | <0.005 |
| Hexachlorocyclopenta | mg/L | 0.001 | 95.8 | 3.32 | <0.001 |
| Dioxin | mg/L | 0.00001 | 97.9 | 3.61 | <0.00001 |
| Isophorone | mg/L | 0.001 | 96.2 | 3.47 | <0.001 |
| 2,4-dinitrotoluene | mg/L | 0.001 | 99.9 | 6.20 | <0.001 |
| Dimethylphthalate | mg/L | 0.001 | 98.7 | 3.64 | <0.001 |
| Diethylphthalate | mg/L | 0.001 | 102 | 4.04 | <0.001 |
| Di-n-butylphthalate | mg/L | 0.001 | 99.7 | 6.13 | <0.001 |
| Butyl benzyl phthala | mg/L | 0.001 | 96.5 | 6.71 | <0.001 |
| Bis(2-ethylhexyl)pht | mg/L | 0.001 | 98.3 | 3.89 | <0.001 |
| 1,2,4-trichlorobenze | mg/L | 0.001 | 99.6 | 2.04 | <0.001 |
| PCB_1016 | mg/L | 0.0001 | 96.7 | 1.32 | <0.0001 |
| PCB_1221 | mg/L | 0.0001 | 96.3 | 1.91 | <0.0001 |

Data Release Authorization

Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984
FAX (407) 260-0117

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Apr18 1991
PO Number: B91051

PO Number
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WATER SAMPLE
Date Received: Mar26 1991 Lab Number : 16542

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16542 |
|---|---|---|---|---|---|
| PCB_1232 | mg/L | 0.0001 | 104 | .408 | <0.0001 |
| PCB_1242 | mg/L | 0.0001 | 105 | 2.02 | <0.0001 |
| PCB_1248 | mg/L | 0.0001 | 99.4 | 3.41 | <0.0001 |
| PCB_1254 | mg/L | 0.0001 | 96.7 | 1.90 | <0.0001 |
| PCB_1260 | mg/L | 0.0001 | 103 | 3.15 | <0.0001 |
| Dioctylphthalate | mg/L | 0.001 | 98.1 | 5.58 | <0.001 |
| 2-chlorophenol | mg/L | 0.001 | 95.7 | 1.45 | <0.001 |
| 2-methyl-4,6-dinitop | mg/L | 0.001 | 98.2 | 2.42 | <0.001 |
| Phenol | mg/L | 0.001 | 98.6 | 3.79 | <0.001 |
| 2,4,6-trichloropheno | mg/L | 0.001 | 99 | 1.21 | <0.001 |

Data Release Authorization

Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS 407 339-5984

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 3351182
Public Water System Name Silver Lakes
Public Water System Type (check one):
(X)Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyzi Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable_X_; Unregulated Organic Pesticide_X_;
Unregulated Base Neutral Extractable_X_;Unregulated Acid Extractable__X_;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number 16542
Sample Location (be specific): _____
Sample Type (check all applicable):
( )Check ( )Regular Distribution (X)Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
(X)Raw (X)Well ( )Resample
( )Special_____
Sampler Name, Title Phone:_____
_____

**ANALYSIS INFORMATION**
Extraction Date 3/30/91
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che()Yes (X) No
ANALYSIS SUBMITTEI Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable___;

I do HEREBY CERTIFY that all data submitted are correct.

Signature:_____

Name Dr. Jefferson S Flowers

Title Technical Director

Laboratory Flowers Chemical Laboratories,Inc.

Date 4/15/91

Mail Results to the
Appropriate DER or ACPHU Office:
_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 06/01/( () Satisfactory () Unsatisfactory

## Volatile Organic Analysis
17-550.310(2)(d)
(PWS029)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 16542 | .00002 | <.000005 | EPA504.1 | .000005 | 4/12/91 |
| 2969 | Para-dichlorobenzene | 16542 | .075 | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2976 | Vinyl chloride | 16542 | 0.001 | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2977 | 1,1-dichloroethene | 16542 | 0.007 | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2980 | 1,2-dichloroethane | 16542 | 0.003 | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2981 | 1,1,1-trichloroethane | 16542 | 0.2 | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2982 | Carbon tetrachloride | 16542 | 0.003 | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2984 | Trichloroethene | 16542 | 0.003 | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2987 | Tetrachloroethene | 16542 | 0.003 | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2990 | Benzene | 16542 | 0.001 | <0.001 | EPA502.2 | 0.001 | 3/30/91 |

Comments:

## Unregulated Organic Purgeable Analysis
17-550.410(1)
(PWS034)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2210 | Chloromethane | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2212 | Dichlorodifluoromethan | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2214 | Bromomethane | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2216 | Chloroethane | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2218 | Trichlorofluoromethane | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2224 | trans-1,3,-dichloroprop | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2228 | cis-1,3-dichloropropene | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2251 | Methyl-tert-butylether | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2380 | cis-1,2-dichloroethene | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2408 | Dibromomethane | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2410 | 1,1-dichloropropene | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2412 | 1,3-dichloropropane | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2414 | 1,2,3-trichloropropane | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2416 | 2,2-dichloropropane | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2931 | 1,2-dibromo-3-chloropr | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2941 | Chloroform | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2942 | Bromoform | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2943 | Bromodichloromethane | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2944 | Dibromochloromethane | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2962 | p-xylene | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2964 | Methylene chloride | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2965 | o-chlorotoluene | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2966 | p-chlorotoluene | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2967 | m-dichlorobenzene | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2968 | o-dichlorobenzene | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2978 | 1,1-dichloroethane | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2979 | trans-1,2-dichloroethyl | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2983 | 1,2-dichloropropane | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2985 | 1,1,2-trichloroethane | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2986 | 1,1,1,2-tetrachloroetha | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2988 | 1,1,2,2-tetrachloroetha | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2989 | Chlorobenzene | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2991 | Toluene | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2992 | Ethylbenzene | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2993 | Bromobenzene | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2995 | m-xylene | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2996 | Styrene | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2997 | o-xylene | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |

Comments:

Unregulated Organic Pesticide Analysis
17-550.410(2)
(PWS035)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2031 | Dalapon | 16542 | | <.000001 | EPA515 | .000001 | 4/15/91 |
| 2036 | Oxamyl (Vydate) | 16542 | | <0.002 | EPA531 | 0.002 | 3/28/91 |
| 2037 | Simazine | 16542 | | <0.007 | EPA505 | 0.007 | 4/15/91 |
| 2040 | Picloram | 16542 | | <0.00007 | EPA515 | 0.00007 | 4/15/91 |
| 2041 | Dinoseb | 16542 | | <0.00001 | EPA515 | 0.00001 | 4/15/91 |
| 2043 | Aldicarb sulfoxide | 16542 | | <0.002 | EPA531 | 0.002 | 3/28/91 |
| 2044 | Aldicarb sulfone | 16542 | | <0.002 | EPA531 | 0.002 | 3/28/91 |
| 2045 | Metolachlor | 16542 | | <0.0005 | EPA505 | 0.0005 | 4/15/91 |
| 2046 | Carbofuran | 16542 | | <0.001 | EPA531 | 0.001 | 3/28/91 |
| 2047 | Aldicarb | 16542 | | <0.002 | EPA531 | 0.002 | 3/28/91 |
| 2050 | Atrazine | 16542 | | <0.002 | EPA505 | 0.002 | 4/15/91 |
| 2051 | Alachlor (Lasso) | 16542 | | <0.0002 | EPA505 | 0.0002 | 4/15/91 |
| 2065 | Heptachlor | 16542 | | <.000005 | EPA508 | .000005 | 4/5/91 |
| 2356 | Aldrin | 16542 | | <0.00007 | EPA508 | 0.00007 | 4/5/91 |
| 2364 | Dieldrin | 16542 | | <0.00001 | EPA508 | 0.00001 | 4/5/91 |
| 2440 | Dicamba | 16542 | | <0.00001 | EPA515 | 0.00001 | 4/15/91 |
| 2959 | Chlordane | 16542 | | <0.00001 | EPA508 | 0.00001 | 4/5/91 |
| 9114 | Pentachlorophenol | 16542 | | <0.005 | EPA515 | 0.005 | 4/15/91 |

Comments:

Unregulated Base Neutral Extractable Analysis
17-550.410(3)
(PWS036)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2042 | Hexachlorocyclopentadie | 16542 | | <0.001 | EPA508 | 0.001 | 4/15/91 |
| 2063 | Dioxin | 16542 | | <0.00001 | EPA613 | 0.00001 | 4/5/91 |
| 2262 | Isophorone | 16542 | | <0.001 | EPA609 | 0.001 | 4/10/91 |
| 2270 | 2,4-dinitrotoluene | 16542 | | <0.001 | EPA609 | 0.001 | 4/10/91 |
| 2282 | Dimethylphthalate | 16542 | | <0.001 | EPA606 | 0.001 | 4/10/91 |
| 2284 | Diethylphthalate | 16542 | | <0.001 | EPA606 | 0.001 | 4/10/91 |
| 2290 | Di-n-butylphthalate | 16542 | | <0.001 | EPA606 | 0.001 | 4/10/91 |
| 2294 | Butyl benzyl phthalate | 16542 | | <0.001 | EPA606 | 0.001 | 4/10/91 |
| 2298 | Bis(2-ethylhexyl)phthal | 16542 | | <0.001 | EPA606 | 0.001 | 4/10/91 |
| 2378 | 1,2,4-trichlorobenzene | 16542 | | <0.001 | EPA612 | 0.001 | 4/10/91 |
| 2388 | PCB 1016 | 16542 | | <0.0001 | EPA505 | 0.0001 | 4/5/91 |
| 2390 | PCB 1221 | 16542 | | <0.0001 | EPA505 | 0.0001 | 4/5/91 |
| 2392 | PCB 1232 | 16542 | | <0.0001 | EPA505 | 0.0001 | 4/5/91 |
| 2394 | PCB 1242 | 16542 | | <0.0001 | EPA505 | 0.0001 | 4/5/91 |
| 2396 | PCB 1248 | 16542 | | <0.0001 | EPA505 | 0.0001 | 4/5/91 |
| 2398 | PCB 1254 | 16542 | | <0.0001 | EPA505 | 0.0001 | 4/5/91 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 2400 | PCB 1260 | 16542 | <0.0001 | EPA505 | 0.0001 | 4/5/91 |
| 9089 | Dioctylphthalate | 16542 | <0.001 | EPA606 | 0.001 | 4/10/91 |

Comments:

Unregulated Acid Extractable Analysis
17-550.410(4)
(PWS037)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 9108 | 2-chlorophenol | 16542 | | <0.001 | EPA604 | 0.001 | 4/10/91 |
| 9112 | 2-methyl-4,6-dinitophe | 16542 | | <0.001 | EPA604 | 0.001 | 4/10/91 |
| 9115 | Phenol | 16542 | | <0.001 | EPA604 | 0.001 | 4/10/91 |
| 9116 | 2,4,6-trichlorophenol | 16542 | | <0.001 | EPA604 | 0.001 | 4/10/91 |

Comments:

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

ANALYTICAL & CONSULTING CHEMISTS

# CHAIN OF CUSTODY RECORD

| CLIENT SSU | ADDRESS | PHONE |
|---|---|---|
| PROJECT NAME B91053 | REQUIRED: ☐ Urgent ☐ Routine | DATE |

| Sample Containers QTY | Preservative: HNO3 | H2SO4 | HCl | Na2S2O3 | Zn(C2H3O2)/NaOH | NaOH/AscAcid | Plastic Containers: 60mL | 125mL | 250mL | 500mL | 1L | 2L | Whirl-Pak Bag | Glass Containers: 40mL Vial | 250mL | 500mL | 1L | 2L | 4L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | | | | X |
| 10 | | | | | | | | | | | | | | X | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |

NOTES: 5 wells 1 Samples

No AIR Bubbles

| Kit Relinquished: | Date: Time: | Kit Received: | Date: Time: |
|---|---|---|---|
| | | | |

#67

Parameters: PWSA Unreg

| Laboratory Number | Client Identification/Description |
|---|---|
| 16542 | Western Shore Well 1 2 vols per well |
| | Well 2 |
| | Silver Lakes Well 1 |
| | Well 2 |
| | Weyerhaeuser Well 1 |

| | | Date | Time |
|---|---|---|---|
| Sample Collection: | Dennis Marco | 3-26-91 | |
| Transportation: | James Shurley Jr | | |
| Lab Acceptance: | | 3/26/91 | 4:25 |

Page _____ of _____

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.

481 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
(305) 339-4588

SSU SERVICES

**General Offices**
1000 Color Place
Apopka, FL 32703
(407) 880-0058

July 15, 1991

Ms. Marie Carrasquillo
State of Florida
Department of Environmental Regulation
3319 Maguire Boulevard
Suite 232
Orlando, Florida 32803-3767

Re: Lake County - PW
Skycrest PWS ID #3351205
Western Shores PWS ID #3351464
Silver Lakes PWS ID #3351182

Dear Ms. Carrasquillo,

Enclosed please find results for Volatile Organic Analysis second quarter for the above referenced facilities.

Please enter this information into your records.

Sincerely,

SSU Services

Donald B. Corder
Division Supervisor

DBC/jlm

cc: Charles Sweat
Clara Dozier
File

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
Southern States
1000 Color Pl.
Apopka,FL 32703

Date Reported: Jul 2 1991
PO Number: 891051
PO Number SSU
FDHRS Lab# : 83139
FDER Lab# : EB3018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WATER SAMPLE
Date Received: Jun26 1991 Lab Number : 17230

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 17230 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 99.0 | 2.74 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 96.4 | 1.07 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 96.7 | .218 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 96.7 | .218 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 95.5 | .595 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 91.6 | 3.11 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 93.5 | 3.44 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 92.2 | .300 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 101 | .721 | <0.001 |
| Benzene | mg/L | 0.001 | 96.4 | 1.08 | <0.001 |

Data Release Authorization

Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P.O. BOX 950-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
PHONE 407 339-5984
FAX 407 260-0170

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 3351182
Public Water System Name: Silver Lakes
Public Water System Type (check one):
(X)Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyzed: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number 17230
Sample Location (be specific): #1 #2 Well
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
(X)Raw (X)Well ( )Resample
( )Special_____
Sampler Name, Title Phone: Dennis Moro

**ANALYSIS INFORMATION**
Extraction Date __/__/____
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTED Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature:

Name Dr Jefferson S Flowers

Title Technical Director

Laboratory Flowers Chemical Laboratories,Inc.

Date 7/1/91

Mail Results to the Appropriate DER or ACPHU Office:

DER /ACPHU Reviewing Offical:

PWSA.01 Sample Interpretation (check one):
Effective 06/01/8 () Satisfactory () Unsatisfactory

Volatile Organic Analysis
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 17230 | .00002 | <.000005 | EPA504.1 | .000005 | 6/27/91 |
| 2969 | Para-dichlorobenzene | 17230 | .075 | <0.001 | EPA502.2 | 0.001 | 6/29/91 |
| 2976 | Vinyl chloride | 17230 | 0.001 | <0.001 | EPA502.2 | 0.001 | 6/29/91 |
| 2977 | 1,1-dichloroethene | 17230 | 0.007 | <0.001 | EPA502.2 | 0.001 | 6/29/91 |
| 2980 | 1,2-dichloroethane | 17230 | 0.003 | <0.001 | EPA502.2 | 0.001 | 6/29/91 |
| 2981 | 1,1,1-trichloroethane | 17230 | 0.2 | <0.001 | EPA502.2 | 0.001 | 6/29/91 |
| 2982 | Carbon tetrachloride | 17230 | 0.003 | <0.001 | EPA502.2 | 0.001 | 6/29/91 |
| 2984 | Trichloroethene | 17230 | 0.003 | <0.001 | EPA502.2 | 0.001 | 6/29/91 |
| 2987 | Tetrachloroethene | 17230 | 0.003 | <0.001 | EPA502.2 | 0.001 | 6/29/91 |
| 2990 | Benzene | 17230 | 0.001 | <0.001 | EPA502.2 | 0.001 | 6/29/91 |

Comments:

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

ANALYTICAL & CONSULTING CHEMISTS

# CHAIN OF CUSTODY RECORD

ATTN: Don Copper

| CLIENT | ADDRESS | PHONE |
|---|---|---|
| Southern States Util. | 1000 Color Place Apopka, FL. 32703 | 880-0058 |
| PROJECT NAME: W. Stores / Stuff us / Skicost | REQUIRED: ☐ Urgent ☐ Routine | DATE |

| Sample Containers QTY | Preservative | | | | | | | Plastic Containers | | | | | | | Glass Containers | | | | | | | NOTES: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | HNO3 | H2SO4 | HCl | Na2S2O3 | Zn(C2H3O2)/NaOH | NaOH/AscAcid | | 60mL | 125mL | 250mL | 500mL | 1L | 2L | Whirl-Pak Bag | 40mL Vial | 250mL | 500mL | 1L | 2L | 4L | | |
| 15 | | | | | | | | | | | | | | | X | | | | | | | 5 WELLS PLEASE COMPOSITE 3 2nd QTR VOA's. $85.00 PAR LAURIE |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |

| Kit Relinquished: | Date: Time: | Kit Received: | Date: Time: |
|---|---|---|---|
| | | | |

Parameters: VOA's (DRINKING WATER)

| Laboratory Number | Client Identification/Description |
|---|---|
| 17230 | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

| | | Date | Time |
|---|---|---|---|
| Sample Collection | Dennis Morse | 6-26-91 | |
| Transportation | | | |
| Lab Acceptance | | 6/26/91 | 3:20 |

Page ____ of ____

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.

481 Newburyport
P.O. Box 160
Altamonte Springs
Florida 32715

SSU
SERVICES

**General Offices**
1000 Color Place
Apopka, FL 32703
(407) 880-0058

October 7, 1991

Ms. Marie Carrasquillo
State of Florida
Department of Environmental Regulation
3319 Maguire Boulevard
Suite 232
Orlando, Florida 32803-3767

Re: Lake County PW
Western Shores PWS ID #3351464
Silver Lakes PWS ID E3351182
Skycrest PWS ID #3351205

Dear Ms. Carrasquillo,

Enclosed please find results for Volatile Organic Analysis third quarter for the above referenced facilities.

Please enter this informaiton into your records.

Sincerely,

SSU Services

Donald B. Corder

Don Corder
Area Supervisor

DC/jlm

cc: Charles Sweat
Frank Sanderson
Mel Fisher
Clara Dozier
Osceola County
File

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Oct 2 1991
PO Number: B91051

PO Number SSU
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: COMP. SAMPLE
Date Received: Sep27 1991 Lab Number : 17868

REPORT OF ANALYSIS

Western Storm
S:/wastwtr/wg

17868

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 99.9 | .820 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 89.8 | 4.86 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 106 | .487 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 106 | .487 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 95.9 | .420 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 101 | .204 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 104 | 1.38 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 97.5 | .508 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 98.0 | 1.24 | <0.001 |
| Benzene | mg/L | 0.001 | 97.4 | .710 | <0.001 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director

Page 1 of 1

Jefferson S. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS. (407) 339-5984
FAX (407) 260-6110

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number:_____
Public Water System Name _____
Public Water System Type (check one):
(✓)Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyz: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number 17868
Sample Location (be specific): Plant Side
Sample Type (check all applicable):
( )Check ( )Regular Distribution (✓)Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
(✓)Raw (✓)Well ( )Resample
( )Special_____
Sampler Name, Title Phone: Brian Heath - Lead Operator 880-0057

**ANALYSIS INFORMATION**
Extraction Date 9/30/91
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTEL Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature:_____

Name **Dr Jefferson S Flowers**

Title **Technical Director**

Laboratory **Flowers Chemical Laboratories,Inc.**

Date 10/1/91

Mail Results to the
Appropriate DER or ACPHU Office:
_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 06/01/( () Satisfactory () Unsatisfactory

Volatile Organic Analysis
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 17868 | .00002 | <.000005 | EPA504.1 | .000005 | 9/30/91 |
| 2969 | Para-dichlorobenzene | 17868 | .075 | <0.001 | EPA502.2 | 0.001 | 9/30/91 |
| 2976 | Vinyl chloride | 17868 | 0.001 | <0.001 | EPA502.2 | 0.001 | 9/30/91 |
| 2977 | 1,1-dichloroethene | 17868 | 0.007 | <0.001 | EPA502.2 | 0.001 | 9/30/91 |
| 2980 | 1,2-dichloroethane | 17868 | 0.003 | <0.001 | EPA502.2 | 0.001 | 9/30/91 |
| 2981 | 1,1,1-trichloroethane | 17868 | 0.2 | <0.001 | EPA502.2 | 0.001 | 9/30/91 |
| 2982 | Carbon tetrachloride | 17868 | 0.003 | <0.001 | EPA502.2 | 0.001 | 9/30/91 |
| 2984 | Trichloroethene | 17868 | 0.003 | <0.001 | EPA502.2 | 0.001 | 9/30/91 |
| 2987 | Tetrachloroethene | 17868 | 0.003 | <0.001 | EPA502.2 | 0.001 | 9/30/91 |
| 2990 | Benzene | 17868 | 0.001 | <0.001 | EPA502.2 | 0.001 | 9/30/91 |

Comments:

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

FDER Lab# E83016
FDHRS Lab# 85139
NCDEHNR Lab# 284
SCDHEC Lab# 96019

## ANALYTICAL & CONSULTING CHEMISTS
## CHAIN OF CUSTODY RECORD
## DRINKING WATER 17-550

ATTN: Dan Cotnea

(1)Client: SSU

(2)Address: 1000 Color Place Apopka, FL. 32703

(3)Phone: 880-0058

(4)Public Drinking Water ID #:

(5)Public Water System Name:

(6)Project #:

(7)PO# B-91051

(8)Public Water System Type: (✓) Community ( ) Non-Community ( ) Special Non-Community

| | Preservative | | | Plastic Containers | | | | | | Glass Containers | | | | | | NOTES: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | HNO3 | ZnOAC/NaOH | | 60ml | 125ml | 250ml | 500ml | 1l | Whirl Pac Bag | 40ml | 250ml | 500ml | 1l | 2l | 4l | |
| (16) 15 | | | | | | | | | | X | | | | | | 5 wells total, to be composited at lab to 1-sample. #46 Western Shores - 2 wells #54 Silver Lakes - 2 wells #55 Sky Crest - 1 well #2 |

(12)Turn Around Time:
10 Working Days:
5 Working Days :
3 Working Days :
1 Working Day :
Other :

(17)Kit Relinquished: | (17)Date | (17)Time | (9)Kit Received | (9)Date | (9)Time

(10)Parameter Group(s) Analysed: Turbidity__; Inorganic__; Trihalomethane__; Volatile Organic X; Organic Chemical__; Secondary Chemical__; Radiological__; Unregulated Organic Purgeable__; Unregulated Organic Pesticide : Unregulated Base Neutral Extractable : Unregulated Acid Extractable :

| (18)Laboratory Number | (11)Client Sample Identification |
|---|---|
| 17868 | #1 |
| | #2 |
| | #3 |
| | #4 |
| | #5 |
| | #6 |
| | #7 |
| | #8 |
| | #9 |
| | #10 |

| | | Date | Time |
|---|---|---|---|
| (13)Collectors Signature: | Brian Heath | 9/26/91 | |
| (14)Transporters Signature: | Steve D. Hammond | 9/27/91 | |
| (15)Lab Acceptance By: | Susan Heath | 9/27/91 | 10:01 |

Over for numbered instructions.

SSU
SERVICES

**General Offices**
1000 Color Place
Apopka, FL 32703
(407) 880-0058

January 9, 1992

Ms. Marie Carrasquillo
State of Florida
Department of Environmental Regulation
3319 Maguire Boulevard
Suite 232
Orlando, Florida 32803

Re: Lake County - PW
Silver Lakes - PWS ID#3351182
Western Shores - PWS ID#3351464
Skycrest - PWS ID#3351205

Dear Ms. Carrasquillo:

Enclosed please find results for Volatile Organic Analysis Fourth Quarter for the above referenced facilities.

Please enter this information into your records.

Sincerely,

Donald B. Corder

Donald B. Corder
Area Supervisor

DBC/ag
Enclosures

c: Jim Ragsdale
Frank Sanderson
Ralph Terrero
Clara Dozier
File

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Dec30 1991
PO Number: B 9105
PO Number Silver Lk#574
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WELL#1
Date Received: Dec23 1991 Lab Number : 18571

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 18571 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 113 | 4.07 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 103 | 1.18 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 107 | 5.05 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 107 | 5.05 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 111 | 5.99 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 112 | 6.36 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 111 | 8.10 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 112 | 6.46 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 107 | 1.19 | <0.001 |
| Benzene | mg/L | 0.001 | 100 | .866 | <0.001 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Andrew Harrison
Laboratory Manager



481 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS: (407) 339-6984
FAX: (407) 260-0110

## PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 3351182
Public Water System Name Silver Lakes
Public Water System Type (check one):
(X)Community ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyzed: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___: Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number: 16571
Sample Location (be specific): Plant # 1 Well
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composite
( )Clearance ( )Maximum Residence Time ( )Plant Tap
(X)Raw (X)Well ( )Resample
( )Special_____
Sampler Name, Title Phone: John Hawersaat - Maint. 880-0058

**ANALYSIS INFORMATION**
Extraction ___/___/____
Laboratory Dr. J.S. Flowers
Resample Requested? (check one): ()Yes (X) No
ANALYSIS SUBMITTED: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___: Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature:_____

Name **Andrew B. Harrison**

Title **Laboratory Manager**

Laboratory **Flowers Chemical Laboratories,Inc.**

Date 12/30/91

DER /ACPHU Reviewing Offical:

_____

Mail Results to the
Appropriate DER or ACPHU Office:

_____
_____
_____
_____

PWSA.01 Sample Interpretation (check one):
Effective 0 () Satisfactory () Unsatisfactory

Volatile Organic Analysis
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 18571 | .00002 | <.000005 | EPA504.1 | .000005 | 12/27/91 |
| 2969 | Para-dichlorobenzene | 18571 | .075 | <0.001 | EPA502.2 | 0.001 | 12/23/91 |
| 2976 | Vinyl chloride | 18571 | 0.001 | <0.001 | EPA502.2 | 0.001 | 12/23/91 |
| 2977 | 1,1-dichloroethene | 18571 | 0.007 | <0.001 | EPA502.2 | 0.001 | 12/23/91 |
| 2980 | 1,2-dichloroethane | 18571 | 0.003 | <0.001 | EPA502.2 | 0.001 | 12/23/91 |
| 2981 | 1,1,1-trichloroethane | 18571 | 0.2 | <0.001 | EPA502.2 | 0.001 | 12/23/91 |
| 2982 | Carbon tetrachloride | 18571 | 0.003 | <0.001 | EPA502.2 | 0.001 | 12/23/91 |
| 2984 | Trichloroethene | 18571 | 0.003 | <0.001 | EPA502.2 | 0.001 | 12/23/91 |
| 2987 | Tetrachloroethene | 18571 | 0.003 | <0.001 | EPA502.2 | 0.001 | 12/23/91 |
| 2990 | Benzene | 18571 | 0.001 | <0.001 | EPA502.2 | 0.001 | 12/23/91 |

Comments:

FLOWERS CHEMICAL LABORATORIES INCORPORATED

P.O.# 114056

ANALYTICAL & CONSULTING CHEMISTS
**CHAIN OF CUSTODY RECORD**

| CLIENT | ADDRESS | PHONE |
|---|---|---|
| SSU Services | 1000 color place, Apopka | 800-#55-7202 |

| PROJECT NAME: | REQUIRED: | DATE |
|---|---|---|
| SilverLake #574 | ☐ Urgent ☒ Routine | 12-23-91 |

| Sample Containers QTY | Preservative | | | | | | | Plastic Containers | | | | | | | Glass Containers | | | | | | | NOTES: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | HNO3 | H2SO4 | HCl | Na2S2O3 | Zn(C2H3O2)/NaOH | NaOH/AscAcid | | 60mL | 125mL | 250mL | 500mL | 1L | 2L | Whirl-Pak Bag | 40mL Vial | 250mL | 500mL | 1L | 2L | 4L | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |

| Kit Relinquished: | Date: Time: | Kit Received: | Date: Time: |
|---|---|---|---|
| | | | |

Parameters: VOC's

| Laboratory Number | Client Identification/Description |
|---|---|
| 18571 | Well #1 |
| 18572 | Well #2 |

| | | Date | Time |
|---|---|---|---|
| Sample Collection: | John D Rowers | 12-23-91 | 9.00 |
| Transportation: | John D Rowers | 12-23-91 | 3:30 |
| Lab Acceptance: | M. McCoy | 12-23-91 | 3:30 pm |

Page 1 of 1

Jefferson L. Rowers, Ph.D.
Jefferson S. Rowers, Ph.D.

481 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-8984
FAX (407) 260-6110

DAILY BUSINESS FORMS - (407) 831-7553 ACTS 2:38

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Dec30 1991
PO Number: B 9105/
PO Number Silver Lk#574
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WELL#2
Date Received: Dec23 1991 Lab Number : 18572

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 18572 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 113 | 4.07 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 103 | 1.18 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 107 | 5.05 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 107 | 5.05 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 111 | 5.99 | <0.001 |
| 1.1,1-trichloroethan | mg/L | 0.001 | 112 | 6.36 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 111 | 8.10 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 112 | 6.46 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 107 | 1.19 | <0.001 |
| Benzene | mg/L | 0.001 | 100 | .866 | <0.001 |

Data Release Authorization

Sample integrity and reliability certified by Lab personnel prior to analysis. Methods of analysis in accordance with FCL QA and EPA approved methodology.

Andrew Harrison
Laboratory Manager



481 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS: (407) 339-5984
FAX: (407) 260-6110

## PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 3351182
Public Water System Name Silver Lakes
Public Water System Type (check one):
(X)Community ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyzed: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number: 18572
Sample Location (be specific): Plant #2 well
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composite
( )Clearance ( )Maximum Residence Time ( )Plant Tap
(X)Raw (X)Well ( )Resample
( )Special
Sampler Name, Title Phone: John Hawersaat - Maint. 880-0058

**ANALYSIS INFORMATION**
Extraction ___/___/____
Laboratory Dr. J.S. Flowers
Resample Requested? (check one): ()Yes (X) No
ANALYSIS SUBMITTED: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature:

Name **Andrew B. Harrison**

Title **Laboratory Manager**

Laboratory **Flowers Chemical Laboratories,Inc.**

Date 12/30/91

DER /ACPHU Reviewing Offical:

Mail Results to the
Appropriate DER or ACPHU Office:

PWSA.01 Sample Interpretation (check one):
Effective 0 () Satisfactory () Unsatisfactory

Volatile Organic Analysis
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 18572 | .00002 | <.000005 | EPA504.1 | .000005 | 12/27/91 |
| 2969 | Para-dichlorobenzene | 18572 | .075 | <0.001 | EPA502.2 | 0.001 | 12/23/91 |
| 2976 | Vinyl chloride | 18572 | 0.001 | <0.001 | EPA502.2 | 0.001 | 12/23/91 |
| 2977 | 1,1-dichloroethene | 18572 | 0.007 | <0.001 | EPA502.2 | 0.001 | 12/23/91 |
| 2980 | 1,2-dichloroethane | 18572 | 0.003 | <0.001 | EPA502.2 | 0.001 | 12/23/91 |
| 2981 | 1,1,1-trichloroethane | 18572 | 0.2 | <0.001 | EPA502.2 | 0.001 | 12/23/91 |
| 2982 | Carbon tetrachloride | 18572 | 0.003 | <0.001 | EPA502.2 | 0.001 | 12/23/91 |
| 2984 | Trichloroethene | 18572 | 0.003 | <0.001 | EPA502.2 | 0.001 | 12/23/91 |
| 2987 | Tetrachloroethene | 18572 | 0.003 | <0.001 | EPA502.2 | 0.001 | 12/23/91 |
| 2990 | Benzene | 18572 | 0.001 | <0.001 | EPA502.2 | 0.001 | 12/23/91 |

Comments:

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

P.O.# [illegible]

ANALYTICAL & CONSULTING CHEMISTS

# CHAIN OF CUSTODY RECORD

| CLIENT | ADDRESS | PHONE |
|---|---|---|
| SSU Services | 1000 color place, Apopka | 800-[illegible]-7202 |

| PROJECT NAME: | REQUIRED: | DATE |
|---|---|---|
| SilverLake #574 | ☐ Urgent ☒ Routine | 12-23-91 |

| Sample Containers QTY | Preservative | | | | | | | Plastic Containers | | | | | | | Glass Containers | | | | | | | NOTES: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | HNO3 | H2SO4 | HCl | Na2S2O3 | Zn(C2H3O2)/NaOH | NaOH/AscAcid | | 60mL | 125mL | 250mL | 500mL | 1L | 2L | Whirl-Pak Bag | 40mL Vial | 250mL | 500mL | 1L | 2L | 4L | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |

| Kit Relinquished: | Date: Time: | Kit Received: | Date: Time: |
|---|---|---|---|
| | | | |

Parameters: VOC's

| Laboratory Number | Client Identification/Description |
|---|---|
| 18571 | Well #1 |
| 18572 | Well #2 |

| | | Date | Time |
|---|---|---|---|
| Sample Collection: | John D Maynard | 12-23-91 | 9:00 |
| Transportation: | John D Maynard | 12-23-91 | 3:30 |
| Lab Acceptance: | M. McCoy | 12-23-91 | 3:30 pm |

Page 1 of 1

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.

481 NEWBURYPORT
P O BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984
FAX (407) 260-6110

DAILY BUSINESS FORMS - (407) 877-7233 ACCT# 2134

HRS

State of Florida
Department of Health and Rehabilitative Services
Office of Laboratory Services
P.O. Box 210
Jacksonville, Florida 32231

I.D. NO. 13003
FOR LAB USE ONLY
REC'D ORL
Dec 12 1 10 PM '91
BY: D. KAZANIS

12/13

# DRINKING WATER
# BACTERIOLOGICAL ANALYSIS

SYSTEM NAME: Silver Lake #574 SYSTEM I.D. NO: 3351182 SYSTEM PHONE #: 904-787-4504

ADDRESS: Orsino Ocala COUNTY: Lake DER DISTRICT: Central

COLLECTOR: Dennis W. Moore COLLECTOR PHONE #: 904-326-4420

SAMPLE SITE (Locality or Subdivision): Silver Lake

DATE AND TIME COLLECTED: 12/12/91 10:00 am

TYPE OF SUPPLY(Circle one): (Community water system) Noncommunity water system Nontransient - noncommunity water system
Private well Swimming pool Bottled water Other public water system

TYPE OF SAMPLE(Circle one): (Compliance) Repeat Replacement Main clearance Well survey Other _____
(Check Box) (Check Box) (Specify)
[ ] Distribution [ ] TNTC or
( ) Raw [ ] Turbid

REMARKS:

| TO BE COMPLETED BY COLLECTOR OF SAMPLE | | | | TO BE COMPLETED BY LAB | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | ANALYSIS METHOD: MF | MTF | | MMO-MUG | PA |
| COLL. NO. | SAMPLE POINT (Specific Address) | CL RES'D | pH | SAMPLE NUMBER | NON COLIFORM | TOTAL | CONFIRM TOTAL | CONFIRM FECAL |
| R-1 | 825 Dundee | 9 | | 053816 | | A | | |
| R-2 | 1648 New Ally | 9 | | 053817 | | A | | |
| R-3 | 33822 Orsino | 10 | | 053818 | | A | | |
| R-4 | 2214 Ordway | 9 | | 053819 | | A | | |
| R-5 | 9926 Jackson | 10 | | 053820 | | A | | |
| | | | | | | | | |
| | | | | | | | | |

* Results in this column are preliminary. Fecal coliform confirmation on community and noncommunity water systems and total coliform confirmation on all types of water systems will follow in 24-48 hours.

P - Coliforms are present C - Confluent growth TA - Turbid, Absence of gas or acid
A - Coliforms are absent TNTC - Too numerous to count

INTERPRETATIONS-REMARKS BY PROGRAM REVIEWER

HRS Form 658, Jan 91 (Obsolete previous editions which may not be used) (Stock Number: 5760-000-0658-1)

NAME AND MAILING ADDRESS OF PERSON/FIRM TO RECEIVE REPORT

SSU Service
1000 Color Place
Apopka, Florida 32703

( )
(X) SATISFACTORY
( ) INCOMPLETE COLLECTION INFORMATION
( ) REPEAT SAMPLES
( ) REPLACEMENT SAMPLES

REVIEWING OFFICIAL: JR

TITLE: DEO

State of Florida
Department of Health and Rehabilitative Services
Office of Laboratory Services
P.O. Box 210
Jacksonville, Florida 32231

FOR LAB USE ONLY 3003
ORL
DEC 12 1 18 PM '91
12/13

# DRINKING WATER BACTERIOLOGICAL ANALYSIS

SYSTEM NAME: S. Lewis Lake #574 SYSTEM I.D. NO: 3351182 SYSTEM PHONE #: 904-787-4504
ADDRESS: Overton Drive COUNTY: Lake DER DISTRICT: Central
COLLECTOR: Dennis W. Moore COLLECTOR PHONE #: 904-326-4420
SAMPLE SITE (Locality or Subdivision): Leesburg
DATE AND TIME COLLECTED: 12/12/91 10:00 am
TYPE OF SUPPLY(Circle one): (Community water system) Noncommunity water system Nontransient - noncommunity water system
Private Well Swimming pool Bottled water Other public water system
TYPE OF SAMPLE(Circle one): (Compliance) Repeat Replacement Main clearance Well survey Other _____ (Specify)
(Check Box) (Check Box)
( ) Distribution ( ) TNTC or C
( ) Raw ( ) Turbid
( )
REMARKS:

| TO BE COMPLETED BY COLLECTOR OF SAMPLE | | | | TO BE COMPLETED BY LAB | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | ANALYSIS METHOD: | MF | MTF | MMO-MUG | PA |
| COLL. NO. | SAMPLE POINT (Specific Address) | Cl RES'D | pH | SAMPLE NUMBER | NON COLIFORM* | *TOTAL | CONFIRM TOTAL | CONFIRM FECAL |
| W-1 | Well #1 | 0.- | | 053813 | | A | | |
| W-2 | Well #2 | 0 | | 053814 | | A | | |
| T | Tank | 1.2-.5 | | 053815 | | A | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

* Results in this column are preliminary. Fecal coliform confirmation on community and noncommunity water systems and total coliform confirmation on all types of water systems will follow in 24-48 hours.

P - Coliforms are present C - Confluent growth TA - Turbid, Absence of gas or acid
A - Coliforms are absent TNTC - Too numerous to count

INTERPRETATIONS-REMARKS BY PROGRAM REVIEWER

HRS Form 868, Jun 81 (Obsolete previous editions which may not be used) (Stock Number: 6790-000-0868-4)

NAME AND MAILING ADDRESS OF PERSON/FIRM TO RECEIVE REPORT

SSU Seminn
1000 Color Place
Apopka, Florida 32703

( )
(X) SATISFACTORY
( ) INCOMPLETE COLLECTION INFORMATION
( ) REPEAT SAMPLES
( ) REPLACEMENT SAMPLES

REVIEWING OFFICIAL: JR
TITLE: DER

# Silver Lake Oaks - 473

**Putnam County (SSU)**

**Water**

## - 1992 FPSC Filing -

# Silver Lake Oaks

## Chemical Analyses

---

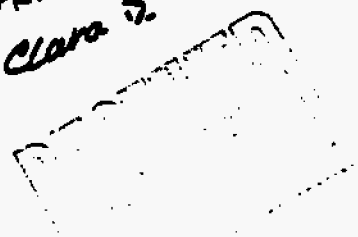
**The most recent chemical analyses for the water system conducted by a certified laboratory covering the inorganic, organic, turbidity, microbiological, radionuclide, secondary and unregulated contaminants.**

| Chemical Analysis | Date Taken |
|---|---|
| Inorganic | * |
| Organic | * |
| Volatile Organic Chemicals | 1/91 |
| | 4/91 |
| | 7/91 |
| | 10/91 |
| Turbidity | * |
| Microbiological | 12/91 |
| Radionuclide | 8/91 |
| Secondary Contaminants | * |
| Unregulated Contaminants | 1/91 |

* The Silver Lake Oaks system was not acquired until October 1989.

Putnam County Office
P. O. Box 458
Pomona Park, FL 32181

TO Frank S.
Clara D.



Date: April 9, 1991

To: Jim Maher

Re: First Quarter 1991 VOC & UC analysis results

Enclosed are copies of VOC & UC analysis results. As discussed in our conversation, we grouped our wells for this procedure. The grouping was as follows:

| SAMPLE # | PLANTS INCLUDED IN SAMPLE | ID NUMBERS |
|---|---|---|
| # 1 | Interlachen Lake Estates | 2540545 |
| | Park Manor | 2540873 |
| | Silver Lake Oaks | 2544258 |
| # 2 | River Park # 1 | 2540962 |
| | River Park # 2 | 2540963 |
| | River Park # 3 | 2540964 |
| | Wootens | 2541280 |
| # 3 | Pomona Park | 2540905 |
| | Hermits Cove | 2540482 |
| | Palm Port | 2540865 |
| | River Grove | 2540959 |
| # 4 | Beechers Point | 2540070 |
| | Welaka Mobile Home Park | 2541242 |
| | Saratoga Harbor | 2541008 |
| | St. Johns Highlands | 2540489 |

If you have any questions, please call either Jerry Boyd or Paul Thompson at 904-649-4143.

Copies: Charles Sweat
J.J. Welsh
File

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
110 Church St
PompanoPrk,FL 32181

Date Reported: Feb26 1991
PO Number: Putnam Co.
PO Number 891028
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 1
Date Received: Jan30 1991 Lab Number : 16153

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16153 |
|---|---|---|---|---|---|
| Dinoseb | mg/L | 0.00001 | 3.80 | 2.00 | <0.00001 |
| Aldicarb sulfoxide | mg/L | 0.002 | 91.0 | 3.89 | <0.002 |
| Aldicarb sulfone | mg/L | 0.002 | 89.5 | 3.16 | <0.002 |
| Metolachlor | mg/L | 0.0005 | 98.1 | 3.01 | <0.0005 |
| Carbofuran | mg/L | 0.001 | 91.0 | 2.33 | <0.001 |
| Aldicarb | mg/L | 0.002 | 105 | 3.70 | <0.002 |
| Atrazine | mg/L | 0.002 | 106 | 0.78 | <0.002 |
| Alachlor (Lasso) | mg/L | 0.0002 | 110 | 1.00 | <0.0002 |
| Heptachlor | mg/L | 0.000005 | 103 | .550 | <0.000005 |
| Aldrin | mg/L | 0.00007 | 117 | 1.46 | <0.00007 |
| Dieldrin | mg/L | 0.00001 | 94.8 | 2.09 | <0.00001 |
| Dicamba | mg/L | 0.00001 | 2.95 | 2.00 | <0.00001 |
| Chlordane | mg/L | 0.00001 | 117 | 1.46 | <0.00001 |
| Pentachlorophenol | mg/L | 0.005 | 1.42 | .500 | <0.005 |
| Hexachlorocyclopenta | mg/L | 0.001 | 100 | 1.94 | <0.001 |
| Dioxin | mg/L | 0.00001 | 101 | 2.47 | <0.00001 |
| Isophorone | mg/L | 0.001 | 99 | 1.41 | <0.001 |
| 2,4-dinitrotoluene | mg/L | 0.001 | 103 | 3.53 | <0.001 |
| Dimethylphthalate | mg/L | 0.001 | 100 | 0.34 | <0.001 |
| Diethylphthalate | mg/L | 0.001 | 98.6 | 2.02 | <0.001 |
| Di-n-butylphthalate | mg/L | 0.001 | 101 | 0.79 | <0.001 |
| Butyl benzyl phthala | mg/L | 0.001 | 97.7 | 3.38 | <0.001 |
| Bis(2-ethylhexyl)pht | mg/L | 0.001 | 99.2 | 1.11 | <0.001 |
| 1,2,4-trichlorobenze | mg/L | 0.001 | 99.7 | 0.37 | <0.001 |
| PCB_1016 | mg/L | 0.0001 | 102 | 3.04 | <0.0001 |
| PCB_1221 | mg/L | 0.0001 | 98.4 | .862 | <0.0001 |

Data Release Authorization

Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBERRY
P.O. BOX 150
ALTAMONTE SPRINGS
FLORIDA 32715-0557
BUS (407) 332-5294
FAX (407) 332-5294

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU
110 Church St
PompanoPrk,FL 32181

Date Reported: Feb26 1991
PO Number: Putnam Co.
PO Number B91028
FDHRS Lab# : 83139
FDER Lab# : EB3018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 1
Date Received: Jan30 1991 Lab Number : 16153

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16153 |
|---|---|---|---|---|---|
| Bromoform | mg/L | 0.001 | 115 | 8.58 | <0.001 |
| Bromodichloromethane | mg/L | 0.001 | 102 | 3.61 | <0.001 |
| Dibromochloromethane | mg/L | 0.001 | 109 | 2.82 | <0.001 |
| p-xylene | mg/L | 0.001 | 97.0 | 2.10 | <0.001 |
| Methylene chloride | mg/L | 0.001 | 109 | .858 | <0.001 |
| o-chlorotoluene | mg/L | 0.001 | 104 | 1.19 | <0.001 |
| p-chlorotoluene | mg/L | 0.001 | 93.4 | 1.89 | <0.001 |
| m-dichlorobenzene | mg/L | 0.001 | 115 | .495 | <0.001 |
| o-dichlorobenzene | mg/L | 0.001 | 111 | .180 | <0.001 |
| 1,1-dichloroethane | mg/L | 0.001 | 100 | 1.31 | <0.001 |
| trans-1,2-dichloroet | mg/L | 0.001 | 107 | 0.72 | <0.001 |
| 1,2-dichloropropane | mg/L | 0.001 | 99.1 | .590 | <0.001 |
| 1,1,2-trichloroethan | mg/L | 0.001 | 114 | .841 | <0.001 |
| 1,1,1,2-tetrachloroe | mg/L | 0.001 | 110 | 1.16 | <0.001 |
| 1,1,2,2-tetrachloroe | mg/L | 0.001 | 120 | 2.20 | <0.001 |
| Chlorobenzene | mg/L | 0.001 | 101 | .116 | <0.001 |
| Toluene | mg/L | 0.001 | 93.4 | 1.89 | <0.001 |
| Ethylbenzene | mg/L | 0.001 | 92.9 | 1.29 | <0.001 |
| Bromobenzene | mg/L | 0.001 | 101 | .116 | <0.001 |
| m-xylene | mg/L | 0.001 | 97.0 | 2.10 | <0.001 |
| Styrene | mg/L | 0.001 | 93.4 | 1.89 | <0.001 |
| o-xylene | mg/L | 0.001 | 97.0 | 2.10 | <0.001 |
| Dalapon | mg/L | 0.000001 | 1.07 | 2.00 | <0.000001 |
| Oxamyl (Vydate) | mg/L | 0.002 | 95.8 | 1.85 | <0.002 |
| Simazine | mg/L | 0.007 | 2.63 | 1.5 | <0.007 |
| Picloram | mg/L | 0.00007 | 1.47 | 1.00 | <0.00007 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director

Jefferson S. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 Newman Street
P.O. Box 550597
Altamonte Springs
Florida 32715-0597
Bus (407) 339-5266
Fax (407) 339-0410

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU

110 Church St
PompanoPrk,FL 32181

Date Reported: Feb26 1991

PO Number: Putnam Co.

PO Number 891028
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 1
Date Received: Jan30 1991 Lab Number : 16153

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16153 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | .000005 | 107 | .899 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 106 | 0.81 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 104 | 0.70 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 104 | 0.70 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 104 | 2.80 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 108 | 3.07 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 112 | 5.08 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 115 | 3.15 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 113 | 3.0 | <0.001 |
| Benzene | mg/L | 0.001 | 111 | 2.81 | <0.001 |
| Chloromethane | mg/L | 0.001 | 109 | .858 | <0.001 |
| Dichlorodifluorometh | mg/L | 0.001 | 100 | .702 | <0.001 |
| Bromomethane | mg/L | 0.001 | 109 | .858 | <0.001 |
| Chloroethane | mg/L | 0.001 | 104 | .542 | <0.001 |
| Trichlorofluorometha | mg/L | 0.001 | 100 | .702 | <0.001 |
| trans-1,3,-dichlorop | mg/L | 0.001 | 107 | 7.14 | <0.001 |
| cis-1,3-dichloroprop | mg/L | 0.001 | 117 | 1.36 | <0.001 |
| Methyl-tert-butyleth | mg/L | 0.001 | 111 | 6.74 | <0.001 |
| cis-1,2-dichloroethe | mg/L | 0.001 | 117 | 1.36 | <0.001 |
| Dibromomethane | mg/L | 0.001 | 109 | .858 | <0.001 |
| 1,1-dichloropropene | mg/L | 0.001 | 106 | 6.2 | <0.001 |
| 1,3-dichloropropane | mg/L | 0.001 | 107 | 7.14 | <0.001 |
| 1,2,3-trichloropropa | mg/L | 0.001 | 105 | 5.27 | <0.001 |
| 2,2-dichloropropane | mg/L | 0.001 | 104 | .542 | <0.001 |
| 1,2-dibromo-3-chloro | mg/L | 0.001 | 105 | 5.27 | <0.001 |
| Chloroform | mg/L | 0.001 | 99.1 | 1.06 | <0.001 |

Data Release Authorization

Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director

Jefferson S. Flowers, PhD
Jefferson S. Flowers, PhD
485 Newman Street
P.O. Box 140597
Altamonte Springs
Florida 32715-0597
BUS (407) 339-5764
FAX

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU
110 Church St
PompanoPrk,FL 32181

Date Reported: Feb26 1991
PO Number: Putnam Co.
PO Number 891028
FDHRS Lab# : 83139
FDER Lab# : EB3018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: I
Date Received: Jan30 1991 Lab Number : 16153

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16153 |
|---|---|---|---|---|---|
| PCB_1232 | mg/L | 0.0001 | 110 | 7.32 | <0.0001 |
| PCB_1242 | mg/L | 0.0001 | 99.1 | 1.86 | <0.0001 |
| PCB_1248 | mg/L | 0.0001 | 102 | 3.04 | <0.0001 |
| PCB_1254 | mg/L | 0.0001 | 110 | 7.32 | <0.0001 |
| PCB_1260 | mg/L | 0.0001 | 102 | 3.04 | <0.0001 |
| Dioctylphthalate | mg/L | 0.001 | 98.9 | 1.55 | <0.001 |
| 2-chlorophenol | mg/L | 0.001 | 101 | 2.05 | <0.001 |
| 2-methyl-4,6-dinitop | mg/L | 0.001 | 106 | 7.47 | <0.001 |
| Phenol | mg/L | 0.001 | 84.1 | 26.7 | <0.001 |
| 2,4,6-trichloropheno | mg/L | 0.001 | 93.3 | 10.1 | <0.001 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



Jefferson L. Flowers, PhD
Jefferson S. Flowers, PhD
481 NEWBURYPORT
P.O. BOX 150 557
ALTAMONTE SPRINGS
FLORIDA 32715 0557
BUS (407) 339 5584
FAX (407) 339 5584

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number:_____
Public Water System Name Silver Lake Oaks
Public Water System Type (check one):
( )Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyzi Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable_X_; Unregulated Organic Pesticide_X_;
Unregulated Base Neutral Extractable_X_;Unregulated Acid Extractable__X_;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number 16153
Sample Location (be specific): _____
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
( )Raw ( )Well ( )Resample
( )Special_____
Sampler Name, Title Phone:_____
_____

**ANALYSIS INFORMATION**
Extraction Date 2/13/91
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTEL Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature:_____

Name Dr. Jefferson S Flowers

Title Technical Director

Laboratory Flowers Chemical Laboratories,Inc.

Date 2/22/91

Mail Results to the Appropriate DER or ACPHU Office:
_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 08/01/t () Satisfactory () Unsatisfactory

## Volatile Organic Analysis
17-550.310(2)(d)
(PWS029)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L) | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 16153 | .00002 | <0.000005 | EPA504.1 | .000005 | 2/19/91 |
| 2969 | Para-dichlorobenzene | 16153 | .075 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2976 | Vinyl chloride | 16153 | 0.001 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2977 | 1,1-dichloroethene | 16153 | 0.007 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2980 | 1,2-dichloroethane | 16153 | 0.003 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2981 | 1,1,1-trichloroethane | 16153 | 0.2 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2982 | Carbon tetrachloride | 16153 | 0.003 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2984 | Trichloroethene | 16153 | 0.003 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2987 | Tetrachloroethene | 16153 | 0.003 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2990 | Benzene | 16153 | 0.001 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |

Comments:

## Unregulated Organic Purgeable Analysis
17-550.410(1)
(PWS034)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L) | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2210 | Chloromethane | 16153 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2212 | Dichlorodifluoromethane | 16153 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2214 | Bromomethane | 16153 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2216 | Chloroethane | 16153 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2218 | Trichlorofluoromethane | 16153 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2224 | trans-1,3,-dichloroprop | 16153 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2228 | cis-1,3-dichloropropene | 16153 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2251 | Methyl-tert-butylether | 16153 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2380 | cis-1,2-dichloroethene | 16153 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2408 | Dibromomethane | 16153 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2410 | 1,1-dichloropropene | 16153 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2412 | 1,3-dichloropropane | 16153 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2414 | 1,2,3-trichloropropane | 16153 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2416 | 2,2-dichloropropane | 16153 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2931 | 1,2-dibromo-3-chloropr | 16153 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2941 | Chloroform | 16153 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2942 | Bromoform | 16153 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2943 | Bromodichloromethane | 16153 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2944 | Dibromochloromethane | 16153 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2962 | p-xylene | 16153 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2964 | Methylene chloride | 16153 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2965 | o-chlorotoluene | 16153 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2966 | p-chlorotoluene | 16153 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2967 | m-dichlorobenzene | 16153 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2968 | o-dichlorobenzene | 16153 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2978 | 1,1-dichloroethane | 16153 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2979 | trans-1,2-dichloroethyl | 16153 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2983 | 1,2-dichloropropane | 16153 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2985 | 1,1,2-trichloroethane | 16153 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2986 | 1,1,1,2-tetrachloroetha | 16153 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2988 | 1,1,2,2-tetrachloroetha | 16153 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2989 | Chlorobenzene | 16153 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 2991 | Toluene | 16153 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2992 | Ethylbenzene | 16153 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2993 | Bromobenzene | 16153 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2995 | m-xylene | 16153 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2996 | Styrene | 16153 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2997 | o-xylene | 16153 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |

Comments:

Unregulated Organic Pesticide Analysis
17-550.410(2)
(PWS035)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L) | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2031 | Dalapon | 16153 | | <0.000001 | EPA515 | .000001 | 2/21/91 |
| 2036 | Oxamyl (Vydate) | 16153 | | <0.002 | EPA531 | 0.002 | 2/18/91 |
| 2037 | Simazine | 16153 | | <0.007 | EPA505 | 0.007 | 2/21/91 |
| 2040 | Picloram | 16153 | | <0.00007 | EPA515 | 0.00007 | 2/21/91 |
| 2041 | Dinoseb | 16153 | | <0.00001 | EPA515 | 0.00001 | 2/21/91 |
| 2043 | Aldicarb sulfoxide | 16153 | | <0.002 | EPA531 | 0.002 | 2/18/91 |
| 2044 | Aldicarb sulfone | 16153 | | <0.002 | EPA531 | 0.002 | 2/18/91 |
| 2045 | Metolachlor | 16153 | | <0.0005 | EPA505 | 0.0005 | 2/21/91 |
| 2046 | Carbofuran | 16153 | | <0.001 | EPA531 | 0.001 | 2/18/91 |
| 2047 | Aldicarb | 16153 | | <0.002 | EPA531 | 0.002 | 2/18/91 |
| 2050 | Atrazine | 16153 | | <0.002 | EPA505 | 0.002 | 2/21/91 |
| 2051 | Alachlor (Lasso) | 16153 | | <0.0002 | EPA505 | 0.0002 | 2/21/91 |
| 2065 | Heptachlor | 16153 | | <.000005 | EPA508 | .000005 | 2/21/91 |
| 2356 | Aldrin | 16153 | | <0.00007 | EPA508 | 0.00007 | 2/21/91 |
| 2364 | Dieldrin | 16153 | | <0.00001 | EPA508 | 0.00001 | 2/21/91 |
| 2440 | Dicamba | 16153 | | <0.00001 | EPA515 | 0.00001 | 2/21/91 |
| 2959 | Chlordane | 16153 | | <0.00001 | EPA508 | 0.00001 | 2/21/91 |
| 9114 | Pentachlorophenol | 16153 | | <0.005 | EPA515 | 0.005 | 2/14/91 |

Comments:

Unregulated Base Neutral Extractable Analysis
17-550.410(3)
(PWS036)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L) | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2042 | Hexachlorocyclopentadie | 16153 | | <0.001 | EPA508 | 0.001 | 2/21/91 |
| 2063 | Dioxin | 16153 | | <0.00001 | EPA613 | 0.00001 | 2/21/91 |
| 2262 | Isophorone | 16153 | | <0.001 | EPA609 | 0.001 | 2/14/91 |
| 2270 | 2,4-dinitrotoluene | 16153 | | <0.001 | EPA609 | 0.001 | 2/14/91 |
| 2282 | Dimethylphthalate | 16153 | | <0.001 | EPA606 | 0.001 | 2/14/91 |
| 2284 | Diethylphthalate | 16153 | | <0.001 | EPA606 | 0.001 | 2/14/91 |
| 2290 | Di-n-butylphthalate | 16153 | | <0.001 | EPA606 | 0.001 | 2/14/91 |
| 2294 | Butyl benzyl phthalate | 16153 | | <0.001 | EPA606 | 0.001 | 2/14/91 |
| 2298 | Bis(2-ethylhexyl)phthal | 16153 | | <0.001 | EPA606 | 0.001 | 2/14/91 |
| 2378 | 1,2,4-trichlorobenzene | 16153 | | <0.001 | EPA612 | 0.001 | 2/14/91 |
| 2388 | PCB-1016 | 16153 | | <0.0001 | EPA505 | 0.0001 | 2/21/91 |
| 2390 | PCB-1221 | 16153 | | <0.0001 | EPA505 | 0.0001 | 2/21/91 |
| 2392 | PCB-1232 | 16153 | | <0.0001 | EPA505 | 0.0001 | 2/21/91 |
| 2394 | PCB-1242 | 16153 | | <0.0001 | EPA505 | 0.0001 | 2/21/91 |
| 2396 | PCB-1248 | 16153 | | <0.0001 | EPA505 | 0.0001 | 2/21/91 |
| 2398 | PCB-1254 | 16153 | | <0.0001 | EPA505 | 0.0001 | 2/21/91 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 2400 | PCB-1260 | 16153 | <0.0001 | EPA505 | 0.0001 | 2/21/91 |
| 9089 | Dioctylphthalate | 16153 | <0.001 | EPA606 | 0.001 | 2/14/91 |

Comments:

Unregulated Acid Extractable Analysis
17-550.410(4)
(PWS037)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L) | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 9108 | 2-chlorophenol | 16153 | | <0.001 | EPA604 | 0.001 | 2/14/91 |
| 9112 | 2-methyl-4,6-dinitophe | 16153 | | <0.001 | EPA604 | 0.001 | 2/14/91 |
| 9115 | Phenol | 16153 | | <0.001 | EPA604 | 0.001 | 2/14/91 |
| 9116 | 2,4,6-trichlorophenol | 16153 | | <0.001 | EPA604 | 0.001 | 2/14/91 |

Comments:

To: Jim Meyer, DER

RE: 2nd Quarter 1991 VOC, analysis results.

Dear Mr. Meyer,

Enclosed are copies of our 2nd Quarter 1991 VOC analysis results. As discussed in our earlier conversation with you, we grouped our wells for this procedure. The grouping was as follows:

| SAMPLE # | PLANTS INCLUDED IN SAMPLE | | ID. # |
|---|---|---|---|
| #1 | Interlachen Lakes Estates | #470 | 2540545 |
| | Park Manor | #444 | 2540873 |
| | Silver Lake Oaks | #473 | 2544258 |
| #2 | River Park #1 | #439[1] | 2540962 |
| | River Park #2 | #439[2] | 2540963 |
| | River Park #3 | #439[3] | 2540964 |
| | Wootens | #446 | 2541280 |
| #3 | Pomona Park | #443 | 2540905 |
| | Hermits Cove | #438 | 2540482 |
| | Palm Port | #440 | 2540865 |
| | River Grove | #442 | 2540959 |
| #4 | Beechers Point | #472 | 2540070 |
| | Welaka Mobile Home Park | #447 | 2541242 |
| | Saratoga Harbor | #448 | 2541008 |
| | St. Johns Highlands | #471 | 2540489 |

If you have any questions, please call either Jerry Boyd or myself at (904)649-4111.

Thank you,

Paul D. Thompson
Lead Operator, Putnam County
SSU Services

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
PO Box 458
PomonaPrk,FL 32181

Date Reported: Apr29 1991
PO Number: B91029
PO Number SSU Serv.
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 1
Date Received: Apr17 1991 Lab Number : 16689

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16689 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 98.6 | 7.34 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 105 | 5.74 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 100 | 3.53 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 100 | 3.53 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 107 | 5.79 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 102 | 3.96 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 103 | 1.43 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 102 | 8.39 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 95.4 | 3.99 | <0.001 |
| Benzene | mg/L | 0.001 | 103 | 2.23 | <0.001 |

Data Release Authorization

Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



Jefferson L. Flowers, PhD
Jefferson S. Flowers, PhD
481 NEWBURYPORT
P O BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984
FAX (407) 260-6110

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number:_____
Public Water System Name Silver Lake Oaks
Public Water System Type (check one):
( )Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyz Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number 16689
Sample Location (be specific): _____
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
( )Raw ( )Well ( )Resampl
( )Special_____
Sampler Name, Title Phone:_____
_____

**ANALYSIS INFORMATION**
Extraction Date ___/___/____
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTEL Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature:_____

Name Dr. Jefferson S Flowers

Title Technical Director

Laboratory Flowers Chemical Laboratories,Inc.

Date 4/27/91

Mail Results to the Appropriate DER or ACPHU Office:
_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 06/01/( () Satisfactory () Unsatisfactory

Volatile Organic Analysis
17-550.310(2)(d)
(PWS029)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 16689 | .00002 | <.000005 | EPA504.1 | .000005 | 4/26/91 |
| 2969 | Para-dichlorobenzene | 16689 | .075 | <0.001 | EPA502.2 | 0.001 | 4/25/91 |
| 2976 | Vinyl chloride | 16689 | 0.001 | <0.001 | EPA502.2 | 0.001 | 4/25/91 |
| 2977 | 1,1-dichloroethene | 16689 | 0.007 | <0.001 | EPA502.2 | 0.001 | 4/25/91 |
| 2980 | 1,2-dichloroethane | 16689 | 0.003 | <0.001 | EPA502.2 | 0.001 | 4/25/91 |
| 2981 | 1,1,1-trichloroethane | 16689 | 0.2 | <0.001 | EPA502.2 | 0.001 | 4/25/91 |
| 2982 | Carbon tetrachloride | 16689 | 0.003 | <0.001 | EPA502.2 | 0.001 | 4/25/91 |
| 2984 | Trichloroethene | 16689 | 0.003 | <0.001 | EPA502.2 | 0.001 | 4/25/91 |
| 2987 | Tetrachloroethene | 16689 | 0.003 | <0.001 | EPA502.2 | 0.001 | 4/25/91 |
| 2990 | Benzene | 16689 | 0.001 | <0.001 | EPA502.2 | 0.001 | 4/25/91 |

Comments:

ORLANDO LABORATORIES INC.

P.O. Box 149127 • Orlando, Florida 32814

REPORT OF ANALYSIS

Southern States Utilities
P.O. Box 458
Pamona Park, FL 32181

Attn: Paul Thompson

Work Order # : 91-07-474
Date Received: 07/31/91
Date Reported: 08/07/91
OLI Contact: L BALTZLEY

Work ID: Southern States Utilities
Samples collected by: Client
Total Samples: 3

| SAMPLE IDENTIFICATION | TEST CODES and NAMES used on this report |
|---|---|
| 01 Trip Blank | 1COMP Composite Data For Samples |
| 02 Composite #1 | PWS028 Volatile Organic Analysis |
| 03 Method Blank | |

Copy of report to:

Jerry Boyd
P.O. Box 458
Pamona Park, FL 32181

OLI Florida Department of Health & Rehabilitative Service Identification Numbers are: Drinking Water Certification Number 83141, Environmental Certification Number EB3033

Respectfully Submitted,
ORLANDO LABORATORIES, INC.

John Hobbs
LABORATORY DIRECTOR

Eric Halarek
QUALITY CONTROL

ORLANDO LABORATORIES,INC.
Received: 07/31/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-07 474

SAMPLE ID Composite #1
DATE COLLECTED not specified
TEST NAME Composite Data For Samples

SAMPLE# G2A
MATRIX WATER
TEST CODE 11111

NUMBER OF SAMPLES COMPOSITED:

| | Sample Identification | Date and time |
|---|---|---|
| #1 | Interlachen | 07/30/91 08:00 |
| #2 | Park Manor | 07/30/91 08:00 |
| #3 | Silver Lake Oaks | 07/30/91 08:00 |
| #4 | | |
| #5 | | |
| #6 | | |
| #7 | | |
| #8 | | |
| #9 | | |
| #10 | | |
| #11 | | |
| #12 | | |

ORLANDO LABORATORIES, INC.
Received: 07/31/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91 07 171

SAMPLE ID Composite #1
DATE COLLECTED not specified
TEST NAME Volatile Organic Analysis

SAMPLE# 020
MATRIX WATER
TEST CODE PWS028

VOLATILE ORGANIC ANALYSIS
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | Analytical Method | Det. L.L. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | | | <0.00002 | EPA 504 | 0.00002 | 08/01/91 |
| 2969 | Para-dichlorobenzene | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2976 | Vinyl Chloride | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2977 | 1,1-Dichloroethene | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2980 | 1,2-Dichloroethane | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2981 | 1,1,1-trichloroethane | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2982 | Carbon Tetrachloride | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2984 | Trichloroethene | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2987 | Tetrachloroethene | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2990 | Benzene | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |

Comments:

ORLANDO LABORATORIES,INC.
Received: 07/31/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-07 474

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME Volatile Organic Analysis

SAMPLE# 03A
MATRIX METHOD BLANK
TEST CODE PWS02B

VOLATILE ORGANIC ANALYSIS
17-550.310(2)(d)
(PWS02B)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | | | <0.00002 | EPA 504 | 0.00002 | 08/01/91 |
| 2969 | Para-dichlorobenzene | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2976 | Vinyl Chloride | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2977 | 1,1-Dichloroethene | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2980 | 1,2-Dichloroethane | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2981 | 1,1,1-trichloroethane | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2982 | Carbon Tetrachloride | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2984 | Trichloroethene | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2987 | Tetrachloroethene | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2990 | Benzene | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |

Comments:

ORLANDO LABORATORIES, INC.
Received: 07/31/91

REPORT OF ANALYSIS
NonReported Work

Work Order # 31-07-14

FRACTION AND TEST CODES FOR WORK NOT REPORTED ELSEWHERE

01A : NOTEST

ORLANDO LABORATORIES INC.

GC/MS VOLATILE ORGANICS



MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 08-01-1991

LAB SAMPLE # : 9107484-2 524
ANALYSIS DATE : 7/31/91

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| 1,1-dichloroethene | 50 | 0 | 35 | 70 | 39 | 78 | 11 |
| trichloroethene | 50 | 0 | 53 | 106 | 51 | 102 | 4 |
| benzene | 50 | 0 | 50 | 100 | 48 | 96 | 4 |
| toluene | 50 | 0 | 49 | 98 | 49 | 98 | 0 |
| chlorobenzene | 50 | 0 | 47 | 94 | 47 | 94 | 0 |

COMMENTS :

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| 1,1-dichloroethene | 64 | 137 | 19 | 50 | 142 | 22 |
| trichloroethene | 76 | 124 | 24 | 70 | 128 | 25 |
| benzene | 77 | 113 | 25 | 64 | 134 | 26 |
| toluene | 65 | 125 | 20 | 69 | 132 | 24 |
| chlorobenzene | 71 | 123 | 24 | 72 | 124 | 20 |

ORLANDO LABORATORIES, INC. Page No: 1

GC ORGANICS

# MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 08-05-1991

LAB SAMPLE # : 9107-147-01A
ANALYSIS DATE : 08/01/91

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| Ethylene Dibromide | 100 | 0 | 54 | 54 | 47 | 47 * | 14 |
| Dibromochloropropane | 100 | 0 | 67 | 67 | 59 | 59 * | 13 |

COMMENTS : * = parameter outside QC limits.

## MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| Ethylene Dibromide | 50 | 100 | 30 | 35 | 100 | 30 |
| Dibromochloropropane | 65 | 110 | 30 | 60 | 110 | 30 |

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number:_____
Public Water System Name: Silver Lake Oaks
Public Water System Type (check one):
( ) Community ( ) Non-Community ( ) Special Non-Community

LABORATORY CERTIFICATION INFORMATION
Lab Certification Number: 83141
Parameter Group(s) Analyzed: Volatile Organic Analysis

Subcontract Lab Certification Number (if any): N/A

SAMPLE INFORMATION
Sample Date (MMDDYY): 07/30/91
Laboratory Sample Number: 91-07-474
Sample Location:_____
Sample Type (check all applicable):
( ) Check ( ) Regular Distribution ( ) Composite
( ) Clearance ( ) Maximum Residue Time ( ) Plant Tap
( ) Raw ( ) Well ( ) Re-sample
( ) Special_____
Sampler Name, Title, Phone:_____

ANALYSIS INFORMATION
Extraction Date (MMDDYY): 08/01/91 (504)
Laboratory Contact: Eric Malarek
Re-sample Requested? (check one): ( ) Yes ( ) No
ANALYSES SUBMITTED: Turbidity____; Inorganic____; Trihalomethane____;
Volatile Organic____; Organic Chemical____; Secondary Chemical____;
Radiological____; Unregulated Organic Purgeable____; Unregulated
Organic Pesticides____; Unregulated Base Neutral Extractable____;
Unregulated Acid Extractable____; (Check all analyses which apply.)

I do HEREBY CERTIFY that all data submitted is correct.

Mail Results to the Appropriate DER or ACPHU Office:

Signature_____

Name Eric Malarek

Title Quality Control Officer

Laboratory Orlando Laboratories, Inc.

Date_____

DER/ACPHU Reviewing Official

_____

Sample Interpretation (check one)
( )Satisfactory ( ) Unsatisfactory

**ORLANDO LABORATORIES, INC.**
P.O. Box 1491[illegible] Orlando, FL 32814
(407) 896-6845 FAX (407) 896-6588

# CHAIN-OF-CUSTODY RECORD
(INSTRUCTIONS ON BACK)



1 INVOICE TO (COMPANY NAME) ADDRESS (CITY, STATE, ZIP): SSU Services, 1000 Color Place Apopka

2 CONTACT PERSON/PHONE # INVOICE

3 OLI WORK ORDER # (LAB USE): 9107474

4 ORIGINAL REPORT TO (COMPANY NAME) ADDRESS (CITY, STATE, ZIP): SSU Services, PO Box 458 Panama Park Fl 32181

5 CONTACT PERSON/PHONE # REPORT: Paul Thompson 679-4143

6 RB NUMBER (LAB USE)

7 (OPTIONAL) ADDITIONAL REPORTS SENT TO ADDRESS (CITY, STATE, ZIP)

8 CLIENT PROJECT NAME

9 CLIENT PROJECT #

| 10 SAMPLE IDENTIFICATION | 11 DATE/TIME | 12 COMP | GRAB | WATER | SOIL | OTHER | 13 SAMPLE DESCRIPTION | 17 NUMBER OF CONTAINERS | 18 REQUESTED ANALYSIS: VOCs | 19 REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| Interkitchen (2540345) | 7/30/91 8:00 | | | X | | | Well | 8 | X | |
| Park Manor (2540873) | 7/31/91 8:00 | | | X | | | Well | 8 | X | |
| Silver Lake Oaks (2544258) | 7/30/91 8:00 | | | X | | | Well | 4 | X | |

| TRANSFER NUMBER | 14 RELINQUISHED BY | 15 DATE/TIME | 16 ACCEPTED BY |
|---|---|---|---|
| 1st | Roy White | 7/31/91 8:00 | Ron Bergeron |
| 2nd | Ron Bergeron | 7/31 11:00 | Deedee Homan |
| 3rd | | | |

20 ADDITIONAL REMARKS

21 COOLER #'s

22 SAMPLER'S SIGNATURE: Roy White

ORIGINAL - LAB
YELLOW - FILE
PINK - CLIENT

0176

# ORLANDO LABORATORIES INC

P.O. Box 149127 • Orlando, Florida 32814

REPORT OF ANALYSIS

Southern States Utilities
P.O. Box 458
Pamona Park, FL 32181

Attn: Paul Thompson

Work Order # : 91-10-436
Date Received: 10/30/91
Date Reported: 11/13/91
OLI Contact: J_BEATO

Work ID: SSU Services
Samples collected by: Client
Total Samples: 3

| SAMPLE IDENTIFICATION | TEST CODES and NAMES used on this report |
|---|---|
| 01 Composite #1 | 1COMP Composite Data For Samples |
| 02 Trip Blank | PWS028 Volatile Organic Analysis |
| 03 Method Blank | |

Copy of invoice to:

Jerry Boyd
Southern States Utilities
P.O. Box 458
Pamona Park, FL 32181

OLI Florida Department of Health & Rehabilitative Service Identification Numbers are:
Drinking Water Certification Number 83141, Environmental Certification Number E83033

Respectfully Submitted,
ORLANDO LABORATORIES, INC.

John Hobbs
LABORATORY DIRECTOR

Eric Malarek
QUALITY CONTROL

ORLANDO LABORATORIES,INC.
Received: 10/30/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91 10 4 5

SAMPLE ID Composite #1
DATE COLLECTED not specified
TEST NAME Composite Data For Samples

SAMPLE# 01A
MATRIX WATER
TEST CODE ICOMP

NUMBER OF SAMPLES COMPOSITED:

| | Sample Identification | Date and time |
|---|---|---|
| #1 | INTERLACHEN (1 & 2) | 10/30/91 07:40 |
| #2 | PARK MANOR (3) | 10/30/91 06:40 |
| #3 | SILVER LAKE OAKS (4) | 10/30/91 06:10 |
| #4 | | |
| #5 | | |
| #6 | | |
| #7 | | |
| #8 | | |
| #9 | | |
| #10 | | |
| #11 | | |
| #12 | | |

ORLANDO LABORATORIES, INC.
Received: 10/30/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-10-136

SAMPLE ID Composite #1
DATE COLLECTED not specified
TEST NAME Volatile Organic Analysis

SAMPLE# 01A
MATRIX WATER
TEST CODE PWS028

VOLATILE ORGANIC ANALYSIS
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | | | <0.00002 | EPA 504 | 0.00002 | 11/05/91 |
| 2969 | Para-dichlorobenzene | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2976 | Vinyl Chloride | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2977 | 1,1-Dichloroethene | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2980 | 1,2-Dichloroethane | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2981 | 1,1,1-trichloroethane | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2982 | Carbon Tetrachloride | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2984 | Trichloroethene | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2987 | Tetrachloroethene | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2990 | Benzene | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |

Comments:

ORLANDO LABORATORIES, INC.
Received: 10/30/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-10-436

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME Volatile Organic Analysis

SAMPLE# 03A
MATRIX METHOD BLANK
TEST CODE PWS028

VOLATILE ORGANIC ANALYSIS
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | | | <0.00002 | EPA 504 | 0.00002 | 11-05/91 |
| 2969 | Para-dichlorobenzene | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2976 | Vinyl Chloride | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2977 | 1,1-Dichloroethene | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2980 | 1,2-Dichloroethane | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2981 | 1,1,1-trichloroethane | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2982 | Carbon Tetrachloride | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2984 | Trichloroethene | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2987 | Tetrachloroethene | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2990 | Benzene | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |

Comments:

ORLANDO LABORATORIES,INC.
Received: 10/30/91

REPORT OF ANALYSIS
NonReported Work

Work Order # 91-10-135

FRACTION AND TEST CODES FOR WORK NOT REPORTED ELSEWHERE

02A : NOTEST

ORLANDO LABORATORIES, INC.

GC ORGANICS

# MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 11-11-1991

LAB SAMPLE # : 9110433-01A
ANALYSIS DATE : 11/05/91

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| Ethylene Dibromide | 100 | 0 | 72 | 72 | 69 | 69 | 4 |
| Dibromochloropropane | 100 | 0 | 77 | 77 | 78 | 78 | 1 |

COMMENTS :

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| Ethylene Dibromide | 50 | 110 | 30 | 35 | 100 | 30 |
| Dibromochloropropane | 65 | 110 | 30 | 60 | 110 | 30 |

ORLANDO LABORATORIES INC.

GC/MS VOLATILE ORGANICS

MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 11-05-1991

LAB SAMPLE # : 9110445-3
ANALYSIS DATE : 11/1/91

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| 1,1-dichloroethene | 50 | 0 | 58 | 116 | 53 | 106 | 9 |
| trichloroethene | 50 | 0 | 53 | 106 | 52 | 104 | 2 |
| benzene | 50 | 0 | 59 | 118 * | 55 | 110 | 7 |
| toluene | 50 | 0 | 50 | 100 | 48 | 96 | 4 |
| chlorobenzene | 50 | 0 | 51 | 102 | 50 | 100 | 2 |

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| 1,1-dichloroethene | 64 | 137 | 19 | 50 | 142 | 22 |
| trichloroethene | 76 | 124 | 24 | 70 | 128 | 25 |
| benzene | 77 | 113 | 25 | 64 | 134 | 26 |
| toluene | 65 | 125 | 20 | 69 | 132 | 24 |
| chlorobenzene | 71 | 123 | 24 | 72 | 124 | 20 |

*Note: Parameter outside QC limits due to matrix interference.

## PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 2544258
Public Water System Name: Silver Lake Oaks
Public Water System Type (check one):
(X) Community ( ) Non-Community ( ) Special Non-Community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: 83141
Parameter Group(s) Analyzed: Volatile Organic Analysis

Subcontract Lab Certification Number (if any): N/A

**SAMPLE INFORMATION**
Sample Date (MMDDYY): 10/30/91
Laboratory Sample Number: 91-10-436
Sample Location: Well
Sample Type (check all applicable):
( ) Check ( ) Regular Distribution ( ) Composite
( ) Clearance ( ) Maximum Residue Time ( ) Plant Tap
( ) Raw (X) Well ( ) Re-sample
( ) Special
Sampler Name, Title, Phone: Paul D. Thompson
Lead Operator, Putnam County SSU Services
904-649-4143

**ANALYSIS INFORMATION**
Extraction Date (MMDDYY): 10/31/91 (504)
Laboratory Contact: Eric Malarek
Re-sample Requested? (check one): ( ) Yes ( ) No
ANALYSES SUBMITTED: Turbidity____; Inorganic____; Trihalomethane____; Volatile Organic____; Organic Chemical____; Secondary Chemical____; Radiological____; Unregulated Organic Purgeable____; Unregulated Organic Pesticides____; Unregulated Base Neutral Extractable____; Unregulated Acid Extractable____; (Check all analyses which apply.)

I do HEREBY CERTIFY that all data submitted is correct.

Signature Eric Malarek

Name Eric Malarek

Title Quality Control Officer

Laboratory Orlando Laboratories, Inc.

Date 11/13/91

Mail Results to the Appropriate DER or ACPHU Office:

DER/ACPHU Reviewing Official

Sample Interpretation (check one)
( )Satisfactory ( ) Unsatisfactory

ORLANDO LABORATORIES, INC
P.O. Box 1491[illegible] Orlando, FL 32814
407 896-6645 FAX (407) 896-6588

# CHAIN-OF-CUSTODY RECORD

SEE INSTRUCTIONS ON BACK

Page ___ of ___

| | | |
|---|---|---|
| COMPANY NAME & ADDRESS (COMPANY AND INDIVIDUAL) | | LAB WORK ORDER # (LAB USE) |
| SSV SERVICES P.O. BOX 458 POMONA PARK FL 32181 | | 9110436 |
| ORIGINAL REPORT TO (COMPANY AND INDIVIDUAL) | ADDRESS (CITY STATE ZIP) | PHONE # FOR REPORT / FAX NUMBER (LAB USE) |
| SAME | | PAUL D. TIMM PSW / 5587 |
| (OPTIONAL) ADDITIONAL REPORTS SENT TO | ADDRESS (CITY STATE ZIP) | |
| CLIENT PROJECT NAME | | PO # L114422 |

| | SAMPLE IDENTIFICATION | DATE/TIME | COMP | GRAB | WATER | SOIL | OTHER | SAMPLE DESCRIPTION | NUMBER OF CONTAINERS | REQUESTED ANALYSES VOA | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | INTERLACHEN | 7:40 / 10/30/91 | | ✓ | ✓ | | | WELL | 8 | ✓ | |
| 3 | PARK MANOR | 6:40 / 10/30/91 | | ✓ | ✓ | | | WELL | 4 | ✓ | |
| 4 | SILVER LAKE OAKS | 6:10 / 10/30/91 | | ✓ | ✓ | | | WELL | 4 | ✓ | |

| TRANSFER NUMBER | RELINQUISHED BY | DATE/TIME | ACCEPTED BY |
|---|---|---|---|
| 1st | [signature] | 10/28 1440 | Rin Bapner |
| 2nd | Rin Bapner | 1030 1630 | Deedee Thomas |
| 3rd | | | |

ADDITIONAL REMARKS

COOLER # s

SAMPLER'S SIGNATURE

ORIGINAL - LAB
YELLOW - FILE
PINK - CLIENT

0185

ORLANDO LABORATORIES INC.

P.O. Box 149127 • Orlando, Florida 32814

REPORT OF ANALYSIS

Southern States Utilities
P.O. Box 458
Pamona Park, FL 32181

Attn: Paul Thompson

Work Order # : 91-08-503
Date Received: 08/29/91
Date Reported: 09/06/91
OLI Contact: L_BALTZLEY

Work ID: Silverlake Oaks
Samples collected by: Client
Total Samples: 1

| SAMPLE IDENTIFICATION | TEST CODES and NAMES used on this report |
|---|---|
| 01 Silverlake Oaks Dist. | PWS033 Radiological Analysis |

Copy of report to:

Jerry Boyd
P.O. Box 458
Pamona Park, FL 32181

OLI Florida Department of Health & Rehabilitative Service Identification Numbers are:
Drinking Water Certification Number 83141, Environmental Certification Number E83033

Respectfully Submitted,
ORLANDO LABORATORIES, INC.

John Hobbs
LABORATORY DIRECTOR

Eric Halarek
QUALITY CONTROL

ORLANDO LABORATORIES,INC.
Received: 08/29/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-08-503

SAMPLE ID Silverlake Oaks Dist.
DATE COLLECTED 08/29/91 07:45:00
TEST NAME Radiological Analysis

SAMPLE# 01A
MATRIX WATER
TEST CODE PWS033

RADIOLOGICAL ANALYSIS
17-550.310(5)
(PWS033)

| Parameter ID | Name | Sample Number | Analysis Result(pCi/l) | Analytical Method | Analysis Error | Analysis Date |
|---|---|---|---|---|---|---|
| 4002 | Gross Alpha | | <0.5 | EPA 900.0 | +/- 2.3 | 09/03/91 |
| 4006 | Total Uranium | | N/A | | | |
| 4010 | Total Radium | | N/A | | | |
| 4020 | Radium-226 | | N/A | | | |
| 4030 | Radium-228 | | N/A | | | |
| 4100 | Gross Beta | | N/A | | | |

Comments:

Southern States Utilities
Attn: Paul Thompson

Report No: 91-08-503
Page No: 3

QUALITY CONTROL DATA SHEET

| PARAMETER | DUPLICATES DIFFERENCE | SPIKES % RECOVERY | DATE | ANALYST |
|---|---|---|---|---|
| Gross Alpha | 1.57 | 80 | 09/03/91 | RAW |

## PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 2544258
Public Water System Name: Silver Lakes Oaks Dist.
Public Water System Type (check one):
(X) Community ( ) Non-Community ( ) Special Non-Community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: 83141
Parameter Group(s) Analyzed: Radiological Analysis

Subcontract Lab Certification Number (if any): N/A

**SAMPLE INFORMATION**
Sample Date (MMDDYY): 08/29/91
Laboratory Sample Number: 91-08-503
Sample Location: NOT SUPPLIED
Sample Type (check all applicable):
( ) Check ( ) Regular Distribution ( ) Composite
( ) Clearance ( ) Maximum Residue Time ( ) Plant Tap
( ) Raw ( ) Well ( ) Re-sample
( ) Special
Sampler Name, Title, Phone: Paul Thompson
Operator
904-649-4143

**ANALYSIS INFORMATION**
Extraction Date (MMDDYY): N/A
Laboratory Contact: Eric Malarek
Re-sample Requested? (check one): ( ) Yes ( ) No
ANALYSES SUBMITTED: Turbidity____; Inorganic____; Trihalomethane____;
Volatile Organic____; Organic Chemical____; Secondary Chemical____;
Radiological____; Unregulated Organic Purgeable____; Unregulated
Organic Pesticides____; Unregulated Base Neutral Extractable____;
Unregulated Acid Extractable____; (Check all analyses which apply.)

I do HEREBY CERTIFY that all data submitted is correct.

Signature Eric Malarek

Name Eric Malarek

Title Quality Control Officer

Laboratory Orlando Laboratories, Inc.

Date 9/6/91

**Mail Results to the Appropriate DER or ACPHU Office:**

DER/ACPHU Reviewing Official

Sample Interpretation (check one)
( )Satisfactory ( ) Unsatisfactory

**ORLANDO LABORATORIES, INC.**
P.O. Box 149127, Orlando, FL 32814
(407) 896-6645 FAX (407) 898-6588

# CHAIN-OF-CUSTODY RECORD

(INSTRUCTIONS ON BACK)

Page _____ of _____

| 1 INVOICE TO (COMPANY AND INDIVIDUAL) / ADDRESS (CITY, STATE, ZIP) | 2 CONTACT PERSON PHONE # INVOICE | DLI WORK ORDER # (LAB USE) |
|---|---|---|
| SSU SERVICES 1000 COLOR PLACE APOPKA FL | | 9108503 |
| **4 ORIGINAL REPORT TO (COMPANY AND INDIVIDUAL) / ADDRESS (CITY, STATE, ZIP)** | **CONTACT PERSON PHONE # REPORT** | **6 PO NUMBER (LAB USE)** |
| SSU SERVICES P.O. BOX 458 PONONA PARK FL. 32181 | PAUL O. THOMPSON | 4872 |
| **7 (OPTIONAL) ADDITIONAL REPORTS SENT TO / ADDRESS (CITY, STATE, ZIP)** | | **17 NUMBER OF CONTAINERS** |
| **8 CLIENT PROJECT NAME** | **9 CLIENT PROJECT #** | |
| | PO# 113212 | |

| 10 SAMPLE IDENTIFICATION | 11 DATE/TIME | 12 COMP | GRAB | WATER | SOIL | OTHER | 13 SAMPLE DESCRIPTION | NUMBER OF CONTAINERS | REQUESTED ANALYSIS: BOD NUTRIENTS | 19 REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| SILVER LAKE OAKS | 3/25/91 2:45 | | X | X | | | DIST | 2 | X | |

| TRANSFER NUMBER | 14 RELINQUISHED BY | 15 DATE/TIME | 16 ACCEPTED BY |
|---|---|---|---|
| 1st | [signature] | 3/27 0955 | [signature] 3/25/91 |
| 2nd | [signature] | 3/25/91 1640 | Ron Bowyer 8-29 |
| 3rd | Ron Bowyer | 8-29 3:15 | DeeDee Homan |

**20 ADDITIONAL REMARKS**

**21 COOLER #'s**

**SAMPLER'S SIGNATURE**

ORIGINAL - LAB
YELLOW - FILE
PINK - CLIENT

0190

HRS

State of Florida
Department of Health and Rehabilitative Services
Office of Laboratory Services
P.O. Box 210
Jacksonville, Florida 32231

RECEIVED
DEC 4 11 58 AM '91
12/5

# DRINKING WATER
# BACTERIOLOGICAL ANALYSIS

SYSTEM NAME: Silver Lake Oaks SYSTEM I.D. NO: 2544258 SYSTEM PHONE #: 649-4143

ADDRESS: Lake Shore Dr. COUNTY: Putnam DER DISTRICT: 2

COLLECTOR: Roy White COLLECTOR PHONE #: 649-4143

SAMPLE SITE (Locality or Subdivision): Subdivision

DATE AND TIME COLLECTED: 12/4/91 9:00 AM

TYPE OF SUPPLY(Circle one): (Community water system) Noncommunity water system Nontransient - noncommunity water system
Private well Swimming pool Bottled water Other public water system

TYPE OF SAMPLE(Circle one): (Compliance) (Check Box) [✓] Distribution [✓] Raw Repeat Replacement (Check Box) [ ] TNTC or C. [ ] Turbid [ ] Main clearance Well survey Other _____ (Specify)

REMARKS:

| TO BE COMPLETED BY COLLECTOR OF SAMPLE | | | | TO BE COMPLETED BY LAB | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | ANALYSIS METHOD: | MF | MTF | MMO-MUG | PA |
| COLL. NO. | SAMPLE POINT (Specific Address) | Cl RES'D | pH | SAMPLE NUMBER | NON COLIFORM | *TOTAL | CONFIRM TOTAL | CONFIRM FECAL |
| 1 | Well | — | 7.6 | 05 1693 | M | A | | |
| 2 | Dist 1 Lot 52 | .4 | | 05 1694 | | A | | |
| 3 | Dist 2 Lot 2 | .4 | | 05 1695 | | A | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

* Results in this column are preliminary. Fecal coliform confirmation on community and noncommunity water systems and total coliform confirmation on all types of water systems will follow in 24-48 hours.

P - Coliforms are present C - Confluent growth TA - Turbid, Absence of gas or acid
A - Coliforms are absent TNTC - Too numerous to count

INTERPRETATIONS-REMARKS BY PROGRAM REVIEWER

Blanca R. Rodriguez, Engineer
Dept. of Env. Regulation DEC 12 1991

NAME AND MAILING ADDRESS OF PERSON/FIRM TO RECEIVE REPORT

SSU SERVICES
Putnam County Office
P. O. Box 458
Pomona Park, FL 32181

( ) SATISFACTORY
( ) INCOMPLETE COLLECTION INFORMATION
( ) REPEAT SAMPLES
( ) REPLACEMENT SAMPLES

REVIEWING OFFICIAL: _____

TITLE: _____

HRS Form 810, Jan 81 (Obsolete previous editions which may not be used) (Stock Number: 0740-000-0810-6)

# Skycrest - 551

**Lake County (SSU)**

**Water**

## - 1992 FPSC Filing -

# Skycrest

## Chemical Analyses

The most recent chemical analyses for the water system conducted by a certified laboratory covering the inorganic, organic, turbidity, microbiological, radionuclide, secondary and unregulated contaminants.

| Chemical Analysis | Date Taken | |
|---|---|---|
| Inorganic | 8/90 | |
| Organic | 8/90 | |
| Volatile Organic Chemicals | #1) 5/90 | #2) 3/91 |
| | #1) 9/90 | #2) 6/91 |
| | #1) 12/90 | #2) 9/91 |
| | #1) 3/91 | #2) 12/91 |
| Turbidity | 8/90 | |
| Microbiological | 12/91 | |
| Radionuclide | 8/90 | |
| Secondary Contaminants | 8/90 | |
| Unregulated Contaminants | 3/91 | |

# ORLANDO LABORATORIES INC.

File

P.O. Box 149127 • Orlando, Florida 32814

REPORT OF ANALYSIS

Southern States Utilities
1000 Color Place
Apopka, Florida 32703

Attn: Aaron Perlowich

Work Order # : 90-08-381
Date Received: 08/30/90
Date Reported: 09/12/90
OLI Contact: E_HOBBS

Work ID: 551 Sky Crest #1
Total Samples: 2

Sampling information is based on data supplied by Client

| SAMPLE IDENTIFICATION | TEST CODES and NAMES used on this report |
|---|---|
| 01 Cooler #21 distribution | PWS026 Turbidity Analysis |
| 02 Method Blank | PWS029 Organic Chemical Analysis |
| | PWS030 Inorganic Analysis |
| | PWS031 Secondary Chem. Analysis |
| | PWS033 Radiological Analysis |

OLI Florida Department of Health & Rehabilitative Service Identification Numbers are:
Drinking Water Certification Number 83141, Environmental Certification Number E83033

Respectfully Submitted,
ORLANDO LABORATORIES, INC.

Acting
LABORATORY DIRECTOR

Eric Malarek
QUALITY CONTROL

*Dedicated To Excellence*

(407) 898-6645 (800) 826-8320 FAX (407) 898-6588

ORLANDO LABORATORIES, INC.
Received: 08/30/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-08-381

SAMPLE ID Cooler #21 distribution
DATE COLLECTED 08/30/90
TEST NAME Turbidity Analysis

SAMPLE# 01A
MATRIX WATER
TEST CODE PWS026

TURBIDITY ANALYSIS
17-550.310(3)
(PWS026)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(NTU) | Analytical Method | Analysis Date |
|---|---|---|---|---|---|---|
| 010D | Turbidity | | | 0.50 | EPA 180.1 | 08/31/90 |

Comments:

ORLANDO LABORATORIES,INC.
Received: 08/30/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-08-381

SAMPLE ID Cooler #21 distribution
DATE COLLECTED 08/30/90
TEST NAME Organic Chemical Analysis

SAMPLE# 01A
MATRIX WATER
TEST CODE PWS029

ORGANIC CHEMICAL ANALYSIS
17-550.310(2)(a)(b)
(PWS029)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|---|
| 2005 | Endrin | | | 0.00010 | U | EPA 608 | 0.00010 | 08/30/90 |
| 2010 | Lindane | | | 0.00005 | U | EPA 608 | 0.00005 | 08/30/90 |
| 2015 | Methoxychlor | | | 0.00050 | U | EPA 608 | 0.00050 | 08/30/90 |
| 2020 | Toxaphene | | | 0.00100 | U | EPA 608 | 0.00100 | 08/30/90 |
| 2105 | 2,4-D | | | 0.0020 | U | EPA 615 | 0.0020 | 09/01/90 |
| 2110 | 2,4,5-TP (Silvex) | | | 0.0010 | U | EPA 615 | 0.0010 | 09/01/90 |

Comments:

ORLANDO LABORATORIES,INC.
Received: 08/30/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-08-381

SAMPLE ID Cooler #21 distribution
DATE COLLECTED 08/30/90
TEST NAME Inorganic Analysis

SAMPLE# 01A
MATRIX WATER
TEST CODE PWS030

INORGANIC ANALYSIS
17-550.310(1)
(PWS030)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1005 | Arsenic | | | <0.010 | EPA 206.2 | 0.010 | 09/02/90 |
| 1010 | Barium | | | <0.100 | EPA 200.7 | 0.100 | 09/07/90 |
| 1015 | Cadmium | | | <0.005 | EPA 213.2 | 0.005 | 09/07/90 |
| 1020 | Chromium | | | <0.010 | EPA 218.2 | 0.010 | 09/07/90 |
| 1025 | Fluoride | | | <0.1 | EPA 340.2 | 0.1 | 09/12/90 |
| 1030 | Lead | | | <0.010 | EPA 239.2 | 0.010 | 09/06/90 |
| 1035 | Mercury | | | <0.0005 | EPA 245.1 | 0.0005 | 09/05/90 |
| 1040 | Nitrate (as N) | | | <0.03 | EPA 352.2 | 0.03 | 09/06/90 |
| 1045 | Selenium | | | <0.005 | EPA 270.2 | 0.005 | 09/03/90 |
| 1050 | Silver | | | <0.010 | EPA 272.2 | 0.010 | 09/10/90 |
| 1052 | Sodium | | | 3.90 | EPA 200.7 | 0.001 | 09/07/90 |

Comments:

ORLANDO LABORATORIES, INC.
Received: 08/30/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-08-381

SAMPLE ID Cooler #21 distribution
DATE COLLECTED 08/30/90
TEST NAME Secondary Chem. Analysis

SAMPLE# 01A
MATRIX WATER
TEST CODE PWS031

SECONDARY CHEMICAL ANALYSIS
17-550.320
(PWS031)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1016 | Calcium | | | 33.0 | EPA 200.7 | 0.1 | 09/07/90 |
| 1017 | Chloride | | | 7.9 | SM 407 | 1.0 | 09/04/90 |
| 1019 | Carbonate CaCO3 | | | NOT ANALYZED | | | |
| 1021 | Hydroxide CaCO3 | | | NOT ANALYZED | | | |
| 1022 | Copper | | | <0.010 | EPA 200.7 | 0.010 | 09/07/90 |
| 1023 | Bicarbonate CaCO3 | | | NOT ANALYZED | | | |
| 1025 | Fluoride | | | 0.11 | EPA 340.2 | 0.1 | 09/04/90 |
| 1026 | Bicarbonate HCO3 | | | NOT ANALYZED | | | |
| 1027 | Hydrogen Sulfide | | | NOT ANALYZED | | | |
| 1028 | Iron | | | <0.010 | EPA 200.7 | 0.100 | 09/07/90 |
| 1031 | Magnesium | | | NOT ANALYZED | | | |
| 1032 | Manganese | | | <0.050 | EPA 200.7 | 0.050 | 09/07/90 |
| 1055 | Sulfate | | | 2.0 | EPA 375.4 | 1.0 | 09/04/90 |
| 1095 | Zinc | | | <0.050 | EPA 200.7 | 0.050 | 09/07/90 |
| 1901 | Carbon Dioxide | | | 2.5 | SM 406 C | 1.0 | 09/11/90 |
| 1905 | Color (color units) | | | <5.0 | EPA 270.2 | 5 PCU | 08/31/90 |
| 1915 | Total Hardness | | | 82.0 | EPA 200.7 | 0.050 | 09/07/90 |
| 1917 | NCH as CaCO3 | | | NOT ANALYZED | | | |
| 1920 | Odor | | | 2.0 | EPA 140.1 | 1 | 08/31/90 |
| 1924 | Field pH (units) | | | 7.1 | EPA 150.1 | N/A | 08/30/90 |
| 1925 | Lab pH (units) | | | 7.89 | EPA 150.1 | N/A | 08/31/90 |
| 1926 | Field Conductivity | | | 251 | EPA 120.1 | N/A | 08/30/90 |

ORLANDO LABORATORIES,INC.
Received: 08/30/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-08-381
Continued From Above

SAMPLE ID Cooler #21 distribution
DATE COLLECTED 08/30/90
TEST NAME Secondary Chem. Analysis

SAMPLE# 01A
MATRIX WATER
TEST CODE PWS031

*** Continued from above***
SECONDARY CHEMICAL ANALYSIS
17-550.320
(PWS031)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1927 | Total Alkalinity | | | 96 | EPA 310.1 | 2.0 | 08/31/90 |
| 1930 | TDS | | | 120 | EPA 160.1 | 1.0 | 09/07/90 |
| 1931 | Phenolphthalein Alk. | | | <2.0 | EPA 310.1 | 2.0 | 08/31/90 |
| 1996 | Field Temp. (C) | | | 79 F | EPA 170.1 | N/A | 08/30/90 |
| 1997 | Langlier Index pHs | | | 7.89 | CALC | N/A | 09/11/90 |
| 1998 | Saturation Index | | | 0.00 | CALC | N/A | 09/11/90 |
| 1999 | Stability Index | | | 7.89 | CALC | N/A | 09/11/90 |
| 2909 | Foaming Agents | | | <0.1 | EPA 425.1 | 0.1 | 08/31/90 |
| 9996 | Field DO | | | 5.4 | EPA 360.1 | 0.1 | 08/30/90 |
| 9997 | Field Chlorine | | | 1.2 | | | |

Comments:

NOTE: Field data supplied by client.

ORLANDO LABORATORIES,INC.
Received: 08/30/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-08-381

SAMPLE ID Cooler #21 distribution
DATE COLLECTED 08/30/90
TEST NAME Radiological Analysis

SAMPLE# 01A
MATRIX WATER
TEST CODE PWS033

RADIOLOGICAL ANALYSIS
17-550.310(5)
(PWS033)

| Parameter ID | Name | Sample Number | Analysis Result(pCi/l) | Analytical Method | Analysis Error | Analysis Date |
|---|---|---|---|---|---|---|
| 4002 | Gross Alpha | | 1.5 | EPA 900.0 | +/- 1.5 | 09/10/90 |
| 4006 | Total Uranium | | N/A | | | |
| 4010 | Total Radium | | N/A | | | |
| 4020 | Radium-226 | | N/A | | | |
| 4030 | Radium-228 | | N/A | | | |
| 4100 | Gross Beta | | N/A | | | -- |

Comments:

ORLANDO LABORATORIES,INC.
Received: 08/30/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-08-381

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME Organic Chemical Analysis

SAMPLE# 02A
MATRIX METHOD BLANK
TEST CODE PWS029

ORGANIC CHEMICAL ANALYSIS
17-550.310(2)(a)(b)
(PWS029)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|---|
| 2005 | Endrin | | | 0.00010 | U | EPA 608 | 0.00010 | 08/31/90 |
| 2010 | Lindane | | | 0.00005 | U | EPA 608 | 0.00005 | 08/31/90 |
| 2015 | Methoxychlor | | | 0.00050 | U | EPA 608 | 0.00050 | 08/31/90 |
| 2020 | Toxaphene | | | 0.00100 | U | EPA 608 | 0.00100 | 08/31/90 |
| 2105 | 2,4-D | | | 0.0020 | U | EPA 615 | 0.0020 | 09/01/90 |
| 2110 | 2,4,5-TP (Silvex) | | | 0.0010 | U | EPA 615 | 0.0010 | 09/01/90 |

Comments:

Southern States Utilities
Attn: Aaron Perlowich

Report No: 90-08-381
Page No: 9

## QUALITY CONTROL DATA SHEET

| PARAMETER | DUPLICATES % DIFFERENCE | SPIKES % RECOVERY | DATE | ANALYST |
|---|---|---|---|---|
| Gross Alpha | 0.2 | 85 | 09/10/90 | JAB |
| Arsenic | <1 | 104 | 09/02/90 | CFG |
| Selenium | <1 | 101 | 09/03/90 | CFG |
| Lead | 8 | 107 | 09/06/90 | JC |
| Mercury | <1 | 103 | 09/05/90 | LG |
| Barium | <1 | 107 | 09/07/90 | BB |
| Cadmium | <1 | 109 | 09/07/90 | BB |
| Chromium | <1 | 100 | 09/07/90 | BB |
| Sodium | 1 | 108 | 09/07/90 | BB |
| Copper | <1 | 103 | 09/07/90 | BB |
| Iron | 3 | 109 | 09/07/90 | BB |
| Manganese | <1 | 97 | 09/07/90 | BB |
| Zinc | <1 | 100 | 09/07/90 | BB |
| Calcium | 1 | 108 | 09/07/90 | BB |
| Silver | <1 | 97 | 09/10/90 | BB |
| Chloride | 5 | 104 | 09/04/90 | RJW |
| Fluoride | 3 | 83 | 09/04/90 | CM |
| Sulfate | <1 | 105 | 09/04/90 | KM |
| Color | <1 | N/A | 08/31/90 | RJW |
| Odor | <1 | N/A | 08/31/90 | RJW |
| TDS | 2 | 86 | 09/06/90 | KM |
| MBAS | 3 | 87 | 08/31/90 | RAW |
| pH | 1 | N/A | 08/31/90 | RJW |
| Total ALkalinity | <1 | 104 | 08/31/90 | RJW |
| Nitrogen, Nitrite | <1 | 104 | 08/31/90 | KM |
| Nitrogen, Nitrate | <1 | 100 | 09/06/90 | DR |
| Turbidity | <1 | N/A | 08/31/90 | RJW |
| Chloride | 3 | 101 | 09/04/90 | RJW |

NOTE: The duplicate for Gross Alpha is reported as actual difference rather than percent difference as specified.

ORLANDO LABORATORIES, INC.

GC ORGANICS



# MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 08-31-1990

LAB SAMPLE # : 9008350-01a
ANALYSIS DATE : 08/31/90

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| GAMMA-BHC (LINDANE) | 100 | 0 | 105 | 105 | 117 | 117 | 11 |
| HEPTACHLOR | 100 | 0 | 106 | 106 | 112 | 112 | 6 |
| ALDRIN | 100 | 0 | 104 | 104 | 110 | 110 | 6 |
| DIELDRIN | 100 | 0 | 108 | 108 | 108 | 108 | 0 |
| ENDRIN | 100 | 0 | 108 | 108 | 108 | 108 | 0 |
| 4,4-DDT | 100 | 0 | 104 | 104 | 113 | 113 | 8 |

COMMENTS :

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| GAMMA-BHC (LINDANE) | 56 | 123 | 15 | 46 | 127 | 50 |
| HEPTACHLOR | 40 | 131 | 20 | 35 | 130 | 31 |
| ALDRIN | 40 | 120 | 22 | 34 | 132 | 43 |
| DIELDRIN | 52 | 126 | 18 | 31 | 134 | 36 |
| ENDRIN | 56 | 121 | 21 | 42 | 139 | 45 |
| 4,4-DDT | 38 | 127 | 27 | 23 | 134 | 50 |

GC ORGANICS

# MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 09-05-1990

LAB SAMPLE # : 9008378-01A
ANALYSIS DATE : 09/01/90

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| PICLORAM | 100 | 0 | 108 | 108 | 115 | 115 | 6 |
| 2,4,5-TP (silver) | 100 | 0 | 94 | 94 | 95 | 95 | 1 |

COMMENTS :

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| PICLORAM | 80 | 175 | 30 | 80 | 175 | 30 |
| 2,4,5-TP (silver) | 80 | 175 | 30 | 80 | 175 | 30 |

End of Report

# PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: _____
Public Water System Name: Skyforest
Public Water System Type (check one):
( ) Community ( ) Non-community ( ) Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: 83141
Parameter Group(s) Analyzed: Turbidity, Organic Chemistry, Inorganics, Secondaries & Radiological.
Subcontracted Lab Certification Number (if any): N/A

**SAMPLE INFORMATION**
Sample Date (MMDDYY): 08/30/90
Laboratory Sample Number: 90-08-381
Sample Location (be specific): _____
Sample Type (check all applicable):
( ) Check ( ) Regular Distribution ( ) Composite
( ) Clearance ( ) Maximum Residence Time ( ) Plant Tap
( ) Raw ( ) Well ( ) Re-sample
( ) Special _____
Sampler Name, Title, Phone: _____

08/30/90 PWS029 08/31/90 PWS029

**ANALYSIS INFORMATION**
Extraction Date (MMDDYY): __/__/__
Laboratory Contact: Eric Malarek
Re-sample Requested? (check one): ( ) Yes ( ) No
ANALYSES SUBMITTED: Turbidity__; Inorganic__; Trihalomethane__; Volatile Organic__; Organic Chemical__; Secondary Chemical__; Radiological__; Unregulated Organic Purgeable__; Unregulated Organic Pesticide__; Unregulated Base Neutral Extractable__; Unregulated Acid Extractable__; (Check all analyses which apply.)

I do HEREBY CERTIFY that all data submitted is correct.

Signature Eric Malarek

Name Eric Malarek

Title Quality Control Officer

Laboratory Orlando Laboratories, Inc.

Date 9-13-90

Mail Results to the Appropriate DER or ACPHU Office:

DER/ACPHU Reviewing Official:

_____

Sample Interpretation (check one)
( ) Satisfactory ( ) Unsatisfactory

**ORLANDO LABORATORIES, INC.**
P.O. Box 149127, Orlando, FL 32814
(407) 896-6645 FAX (407) 898-6588

# CHAIN-OF-CUSTODY RECORD

(INSTRUCTIONS ON BACK)

Page 1 of 1

| 1 INVOICE TO (COMPANY AND INDIVIDUAL) | ADDRESS (CITY, STATE, ZIP) | 2 CONTACT PERSON/PHONE # INVOICE | 3 OLI WORK ORDER # (LAB USE) |
|---|---|---|---|
| S.S.U. Services | 1000 Color Place Apopka FL | Aaron Barlowich 880-0058 | 9008381 |
| **4 ORIGINAL REPORT TO: (COMPANY AND INDIVIDUAL)** | **ADDRESS (CITY, STATE, ZIP)** | **5 CONTACT PERSON/PHONE # REPORT** | **6 RB NUMBER (LAB USE)** |
| " " | " " " " " " 32703 | | 1821 |
| **7 (OPTIONAL) ADDITIONAL REPORTS SENT TO:** | **ADDRESS: (CITY, STATE, ZIP)** | | |
| **8 CLIENT PROJECT NAME** | **9 CLIENT PROJECT #** | | |
| Sky Crest #1 | #551 | | |

| 10 SAMPLE IDENTIFICATION | 11 DATE/TIME | 12 COMP | GRAB | WATER | SOIL | OTHER | 13 SAMPLE DESCRIPTION | 17 NUMBER OF CONTAINERS | 18 REQUESTED ANALYSIS: PRIMARY INORGANICS; SECONDARY METALS; TKN; T-P; Primary Organics Cost/Acute | 19 REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| Cooler #21 | 8+30-90 | | ✓ | ✓ | | | Dust System | | ✓ ✓ ✓ ✓ | |

| TRANSFER NUMBER | 14 RELINQUISHED BY | 15 DATE/TIME | 16 ACCEPTED BY |
|---|---|---|---|
| 1st | [signature] | 8/31 9:00 | |
| 2nd | John W. Howard | 5:00 8-30-90 | Schmidt |
| 3rd | | | |

ADDITIONAL REMARKS 20: D.O. - 5.4, Temp 79, Conductivity - 251, PH - 7.1

COOLER #'s 21: 21

SAMPLER'S SIGNATURE 22: Brian Heath

ORIGINAL - LAB
YELLOW - FILE
PINK - CLIENT

0206

S S U
SERVICES

**General Offices**
1000 Color Place
Apopka, FL 32703
(407) 880-0058

July 26, 1990

Ms. Marie Carrasquillo
State of Florida
Department of Environmental Regulation
3319 Maguire Blvd., Suite 232
Orlando, Florida 32803

Re: Skycrest Water Plant, Lake County ID#3351205 (Well #2)

Dear Ms. Carrasquillo:

Please find attached results for Primary Organics, Primary Inorganics, Secondarys, Turbidity & Radiological Analysis for the above mentioned plant. Please enter this in your records.

Thank you for your cooperation.

Sincerely,

Donald B. Corder

Don Corder
Area Supervisor
SOUTHERN STATES UTILITIES SERVICES, INC.

DC/jb

cc: Aaron Perlowich
Engineering
File

Encl: (as stated)

ORLANDO LABORATORIES INC

P.O. Box 149127 • Orlando, Florida 32814

REPORT OF ANALYSIS

Southern States Utilities
1000 Color Place
Apopka, Florida 32703

Attn: Aaron Perlowich

Work Order # : 90-07-126
Date Received: 07/11/90
Date Reported: 10/18/90
OLI Contact: E_HOBBS

Work ID: #551 Skycrest
Total Samples: 2

(corrected copy)

Sampling information is based on data supplied by Client

| SAMPLE IDENTIFICATION | TEST CODES and NAMES used on this report |
|---|---|
| 01 Skycrest Well #2 | PWS026 Turbidity Analysis |
| 02 Method Blank | PWS029 Organic Chemical Analysis |
| | PWS030 Inorganic Analysis |
| | PWS031 Secondary Chem. Analysis |
| | PWS033 Radiological Analysis |

Copy of results:

Southern States Utilities
Attn: Don Corder
1000 Color Place
Apopka, Florida 32703

OLI Florida Department of Health & Rehabilitative Service Identification Numbers are:
Drinking Water Certification Number 83141, Environmental Certification Number E83033

Respectfully Submitted,
ORLANDO LABORATORIES, INC.

Acting
LABORATORY DIRECTOR

Eric Halarek
QUALITY CONTROL

# PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 3351205
Public Water System Name: Sea Chest
Public Water System Type (check one):
( ) Community ( ) Non-community ( ) Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: 83141
Parameter Group(s) Analyzed: Turbidity Analysis, Org. Chem Analysis, Inorganic Analaysis, Sec. Chem. Analysi & Radiolog: Analysis.
Subcontracted Lab Certification Number (if any): N/A

**SAMPLE INFORMATION**
Sample Date (MMDDYY): 07/10/90
Laboratory Sample Number: 90-07-126
Sample Location (be specific): Well #2
Sample Type (check all applicable):
( ) Check ( ) Regular Distribution ( ) Composite
(✓) Clearance ( ) Maximum Residence Time ( ) Plant Tap
(✓) Raw ( ) Well ( ) Re-sample
( ) Special
Sampler Name, Title, Phone: Brian Heath

| **ANALYSIS INFORMATION** | | 07/10/90 | 07/11/90 |
|---|---|---|---|
| Extraction Date (MMDDYY): | / / | 608R | 615R |

Laboratory Contact: Eric Malarek
Re-sample Requested? (check one): ( ) Yes ( ) No
ANALYSES SUBMITTED: Turbidity ✓; Inorganic ✓; Trihalomethane __; Volatile Organic __; Organic Chemical ✓; Secondary Chemical ✓; Radiological ✓; Unregulated Organic Purgeable __; Unregulated Organic Pesticide __; Unregulated Base Neutral Extractable __; Unregulated Acid Extractable __; (Check all analyses which apply.)

I do HEREBY CERTIFY that all data submitted is correct.

Signature Eric Malarek
Name Eric Malarek
Title Quality Control Officer
Laboratory Orlando Laboratories, Inc.
Date 7-23-90

Mail Results to the Appropriate DER or ACPHU Office:

DER/ACPHU Reviewing Official:

Sample Interpretation (check one)
( ) Satisfactory ( ) Unsatisfactory

ORLANDO LABORATORIES,INC.
Received: 07/11/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-07-126

SAMPLE ID Skycrest Well #2
DATE COLLECTED 07/10/90
TEST NAME Turbidity Analysis

SAMPLE# 01A
MATRIX WATER
TEST CODE PWS026

TURBIDITY ANALYSIS
17-550.310(3)
(PWS026)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(NTU) | Analytical Method | Analysis Date |
|---|---|---|---|---|---|---|
| 0100 | Turbidity | | | 1.9 | EPA 180.1 | 07/11/90 |

Comments:

ORLANDO LABORATORIES,INC.
Received: 07/11/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-07-126

SAMPLE ID Skycrest Well #2
DATE COLLECTED 07/10/90
TEST NAME Organic Chemical Analysis

SAMPLE# 01A
MATRIX WATER
TEST CODE PWS029

ORGANIC CHEMICAL ANALYSIS
17-550.310(2)(a)(b)
(PWS029)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|---|
| 2005 | Endrin | | | 0.00010 | U | EPA 608 | 0.00010 | 07/13/90 |
| 2010 | Lindane | | | 0.00005 | U | EPA 608 | 0.00005 | 07/13/90 |
| 2015 | Methoxychlor | | | 0.00050 | U | EPA 608 | 0.00050 | 07/13/90 |
| 2020 | Toxaphene | | | 0.00100 | U | EPA 608 | 0.00100 | 07/13/90 |
| 2105 | 2,4-D | | | 0.0020 | U | EPA 615 | 0.0020 | 07/12/90 |
| 2110 | 2,4,5-TP (Silvex) | | | 0.0010 | U | EPA 615 | 0.0010 | 07/12/90 |

Comments:

ORLANDO LABORATORIES, INC.
Received: 07/11/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-07-126

SAMPLE ID Skycrest Well #2
DATE COLLECTED 07/10/90
TEST NAME Inorganic Analysis

SAMPLE# 01A
MATRIX WATER
TEST CODE PWS030

INORGANIC ANALYSIS
17-550.310(1)
(PWS030)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1005 | Arsenic | | | <0.010 | EPA 206.2 | 0.010 | 07/18/90 |
| 1010 | Barium | | | <0.100 | EPA 200.7 | 0.100 | 07/19/90 |
| 1015 | Cadmium | | | <0.005 | EPA 213.2 | 0.005 | 07/19/90 |
| 1020 | Chromium | | | <0.010 | EPA 218.2 | 0.010 | 07/19/90 |
| 1025 | Fluoride | | | 0.13 | EPA 340.2 | 0.1 | 07/16/90 |
| 1030 | Lead | | | <0.010 | EPA 239.2 | 0.010 | 07/18/90 |
| 1035 | Mercury | | | <0.0005 | EPA 245.1 | 0.0005 | 07/18/90 |
| 1040 | Nitrate (as N) | | | <0.03 | EPA 352.2 | 0.03 | 07/16/90 |
| 1045 | Selenium | | | <0.005 | EPA 270.2 | 0.005 | 07/19/90 |
| 1050 | Silver | | | <0.010 | EPA 272.2 | 0.010 | 07/19/90 |
| 1052 | Sodium | | | 3.80 | EPA 200.7 | 0.001 | 07/19/90 |

Comments:

ORLANDO LABORATORIES, INC.
Received: 07/11/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-07-126

SAMPLE ID Skycrest Well #2
DATE COLLECTED 07/10/90
TEST NAME Secondary Chem. Analysis

SAMPLE# 01A
MATRIX WATER
TEST CODE PWS031

SECONDARY CHEMICAL ANALYSIS
17-550.320
(PWS031)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1016 | Calcium | | | 37.0 | EPA 200.7 | 1.0 | 07/19/90 |
| 1017 | Chloride | | | 3.9 | SM 407 | 1.0 | 07/13/90 |
| 1019 | Carbonate CaCO3 | | | NOT ANALYZED | — | — | — |
| 1021 | Hydroxide CaCO3 | | | NOT ANALYZED | — | — | — |
| 1022 | Copper | | | <0.010 | EPA 200.7 | 0.010 | 07/19/90 |
| 1023 | Bicarbonate CaCO3 | | | NOT ANALYZED | — | — | — |
| 1025 | Fluoride | | | 0.13 | EPA 340.2 | 0.1 | 07/16/90 |
| 1026 | Bicarbonate HCO3 | | | NOT ANALYZED | — | — | — |
| 1027 | Hydrogen Sulfide | | | NOT ANALYZED | — | — | — |
| 1028 | Iron | | | 0.140 | EPA 200.7 | 0.100 | 07/19/90 |
| 1031 | Magnesium | | | NOT ANALYZED | — | — | — |
| 1032 | Manganese | | | <0.050 | EPA 200.7 | 0.050 | 07/19/90 |
| 1055 | Sulfate | | | <1.0 | EPA 375.4 | 1.0 | 07/16/90 |
| 1095 | Zinc | | | <0.050 | EPA 200.7 | 0.050 | 07/19/90 |
| 1901 | Carbon Dioxide | | | NOT ANALYZED | — | — | — |
| 1905 | Color (color units) | | | 5.0 | EPA 270.2 | 5 PCU | 07/11/90 |
| 1915 | Total Hardness | | | 92.0 | EPA 200.7 | 0.050 | 07/19/90 |
| 1917 | NCH as CaCO3 | | | NOT ANALYZED | — | — | — |
| 1920 | Odor | | | 2.0 | EPA 140.1 | 1 | 07/11/90 |
| 1924 | Field pH (units) | | | * 7.1 | EPA 150.1 | N/A | 09/19/90 |
| 1925 | Lab pH (units) | | | 8.20 | EPA 150.1 | N/A | 07/11/90 |
| 1926 | Field Conductivity | | | * 451 | EPA 120.1 | N/A | 09/19/90 |

ORLANDO LABORATORIES, INC.
Received: 07/11/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-07-126
Continued From Above

SAMPLE ID Skycrest Well #2
DATE COLLECTED 07/10/90
TEST NAME Secondary Chem. Analysis

SAMPLE# 01A
MATRIX WATER
TEST CODE PWS031

*** Continued from above***
SECONDARY CHEMICAL ANALYSIS
17-550.320
(PWS031)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | Analytical Method | Det. Lt.* Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1927 | Total Alkalinity | | | 110 | EPA 310.1 | 2.0 | 07/11/90 |
| 1930 | TDS | | | 130 | EPA 160.1 | 1.0 | 07/16/90 |
| 1931 | Phenolphthalein Alk. | | | <2.0 | EPA 310.1 | 2.0 | 07/11/90 |
| 1996 | Field Temp. (C) | | | * 25 | EPA 170.1 | N/A | 09/19/90 |
| 1997 | Langlier Index pHs | | | 7.8 | EPA 2330 | N/A | 07/31/90 |
| 1998 | Saturation Index | | | NOT ANALYZED - ? | — | — | — |
| 1999 | Stability Index | | | NOT ANALYZED - ? | — | — | — |
| 2909 | Foaming Agents | | | <0.10 | EPA 425.1 | 0.1 | 07/12/90 |
| 9996 | Field DO | | | * 2.2 | EPA 360.1 | 0.1 | 09/19/90 |
| 9997 | Field Chlorine | | | * <1.0 | SM 408 E | 0.02 | 09/19/90 |

Comments:
* Results furnished by client.

ORLANDO LABORATORIES,INC.
Received: 07/11/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-07-126

SAMPLE ID Skycrest Well #2
DATE COLLECTED 07/10/90
TEST NAME Radiological Analysis

SAMPLE# 01A
MATRIX WATER
TEST CODE PWS033

RADIOLOGICAL ANALYSIS
17-550.310(5)
(PWS033)

| Parameter ID | Name | Sample Number | Analysis Result(pCi/l) | Analytical Method | Analysis Error | Analysis Date |
|---|---|---|---|---|---|---|
| 4002 | Gross Alpha | | 3.8 | EPA 900.0 | 0.5 | 07/13/90 |
| 4006 | Total Uranium | | N/A | -- | -- | -- |
| 4010 | Total Radium | | N/A | -- | -- | -- |
| 4020 | Radium-226 | | N/A | -- | -- | -- |
| 4030 | Radium-228 | | N/A | -- | -- | -- |
| 4100 | Gross Beta | | N/A | -- | -- | -- |

Comments:

ORLANDO LABORATORIES,INC.
Received: 07/11/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-07-126

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME Organic Chemical Analysis

SAMPLE# 02A
MATRIX METHOD BLANK
TEST CODE PWS029

ORGANIC CHEMICAL ANALYSIS
17-550.310(2)(a)(b)
(PWS029)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|---|
| 2005 | Endrin | | | 0.00010 | U | EPA 608 | 0.00010 | 07/13/90 |
| 2010 | Lindane | | | 0.00005 | U | EPA 608 | 0.00005 | 07/13/90 |
| 2015 | Methoxychlor | | | 0.00050 | U | EPA 608 | 0.00050 | 07/13/90 |
| 2020 | Toxaphene | | | 0.00100 | U | EPA 608 | 0.00100 | 07/13/90 |
| 2105 | 2,4-D | | | 0.0020 | U | EPA 615 | 0.0020 | 07/12/90 |
| 2110 | 2,4,5-TP (Silvex) | | | 0.0010 | U | EPA 615 | 0.0010 | 07/12/90 |

Comments:

Southern States Utilities
Attn: Aaron Perlowich

Report No: 90-07-126
Page No: 9

## QUALITY CONTROL DATA SHEET

| PARAMETER | DUPLICATES % DIFFERENCE | SPIKES % RECOVERY | DATE | ANALYST |
|---|---|---|---|---|
| Turbidity | <1 | N/A | 07/11/90 | DB |
| Fluoride | 1 | 109 | 07/16/90 | GB |
| Nitrogen, Nitrate | <1 | 91 | 07/16/90 | DR |
| Chloride | <1 | 100 | 07/13/90 | RJW |
| Sulfate | <1 | 100 | 07/16/90 | RJW |
| Color | <1 | N/A | 07/11/90 | DB |
| Odor | <1 | N/A | 07/11/90 | DB |
| TDS | <1 | 92 | 07/16/90 | KM |
| MBAS | 3 | 105 | 07/12/90 | RJW |
| pH | <1 | N/A | 07/11/90 | RJW |
| Total Aklalinity | <1 | 100 | 07/11/90 | RJW |
| Nitrogen, Nitrite | 6 | 101 | 07/12/90 | RJW |
| Gross Alpha | 1.1 | 111 | 07/12/90 | JAB |
| Arsenic | <1 | 94 | 07/18/90 | CFG |
| Selenium | <1 | 98 | 07/19/90 | CFG |
| Mercury | <1 | 104 | 07/18/90 | JC |
| Silver | <1 | 100 | 07/19/90 | BB |
| Barium | <1 | 103 | 07/19/90 | BB |
| Cadmium | <1 | 101 | 07/19/90 | BB |
| Chromium | <1 | 104 | 07/19/90 | BB |
| Sodium | 1 | 105 | 07/19/90 | BB |
| Copper | 4 | 103 | 07/19/90 | BB |
| Iron | 1 | 104 | 07/19/90 | BB |
| Manganese | <1 | 98 | 07/19/90 | BB |
| Zinc | <1 | 108 | 07/19/90 | BB |
| Calcium | 1 | 107 | 07/19/90 | BB |
| Lead | <1 | 98 | 07/18/90 | JC |

NOTE: The duplicate for Gross Alpha is reported as actual difference rather than percent difference as specified.

ORLANDO LABORATORIES, INC.

GC ORGANICS



# MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 07-16-1990

LAB SAMPLE # : 9007126-01a
ANALYSIS DATE : 07/13/90

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD % RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| GAMMA-BHC (LINDANE) | 100 | 0 | 94 | 94 | 87 | 87 | 8 |
| HEPTACHLOR | 100 | 0 | 111 | 111 | 107 | 107 | 4 |
| ALDRIN | 100 | 0 | 116 | 116 | 120 | 120 | 3 |
| DIELDRIN | 100 | 0 | 92 | 92 | 87 | 87 | 6 |
| ENDRIN | 100 | 0 | 82 | 82 | 91 | 91 | 10 |
| 4,4-DDT | 100 | 0 | 107 | 107 | 109 | 109 | 2 |

COMMENTS :

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| GAMMA-BHC (LINDANE) | 56 | 123 | 15 | 46 | 127 | 50 |
| HEPTACHLOR | 40 | 131 | 20 | 35 | 130 | 31 |
| ALDRIN | 40 | 120 | 22 | 34 | 132 | 43 |
| DIELDRIN | 52 | 126 | 18 | 31 | 134 | 38 |
| ENDRIN | 56 | 121 | 21 | 42 | 139 | 45 |
| 4,4-DDT | 38 | 127 | 27 | 23 | 134 | 50 |

ORLANDO LABORATORIES, INC.

GC ORGANICS



# MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 07-13-1990

LAB SAMPLE # : 9007126-01a
ANALYSIS DATE : 07/13/90

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| dalapon | 100 | 0 | 110 | 110 | 112 | 112 | 2 |
| 2,4,5-tp (silvex) | 100 | 0 | 100 | 100 | 78 | 78 * | 43 * |
| picloram | 100 | 0 | 101 | 101 | 77 | 77 * | 27 |

COMMENTS : * = parameter outside QC limits, DUE TO MATRIX INTERFERENCE.

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| dalapon | 55 | 175 | 38 | 55 | 175 | 38 |
| 2,4,5-tp (silvex) | 55 | 175 | 38 | 55 | 175 | 38 |
| picloram | 55 | 175 | 38 | 55 | 175 | 38 |

End of Report

0220

**ORLANDO LABORATORIES, INC.**
P.O. Box 149127, Orlando, FL 32814
(407) 898-6645 FAX (407) 898-6588

# CHAIN-OF-CUSTODY RECORD

(INSTRUCTIONS ON BACK)

№ 05265

Page 1 of 1

| | |
|---|---|
| 1 INVOICE TO: (COMPANY AND INDIVIDUAL) / ADDRESS (CITY, STATE, ZIP) | SSU Services 1000 Color Place, Apopka FL 32703 |
| 2 CONTACT PERSON/PHONE # INVOICE | Aaron Perlowich |
| 3 OLI WORK ORDER # (LAB USE) | 900712 |
| 4 ORIGINAL REPORT TO: (COMPANY AND INDIVIDUAL) / ADDRESS (CITY, STATE, ZIP) | S.S.U. Services |
| 5 CONTACT PERSON/PHONE # REPORT | |
| 6 RB NUMBER (LAB USE) | 1458 |
| 7 (OPTIONAL) ADDITIONAL REPORTS SENT TO: / ADDRESS: (CITY, STATE, ZIP) | |
| 8 CLIENT PROJECT NAME | Skycrest |
| 9 CLIENT PROJECT # | #551 |

| 10 SAMPLE IDENTIFICATION | 11 DATE/TIME | 12 COMP | GRAB | WATER | SOIL | OTHER | 13 SAMPLE DESCRIPTION | 17 NUMBER OF CONTAINERS | 18 REQUESTED ANALYSIS: Lead GFAA, THM (Standard), Turbidity, Fluoride, Gross Alpha | 19 REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| Sky Crest Well #2 | 7-10-90 | / | / | / | | | | 7 | ✓ ✓ ✓ | |

| TRANSFER NUMBER | 14 RELINQUISHED BY | 15 DATE/TIME | 16 ACCEPTED BY |
|---|---|---|---|
| 1st | | 7/11 9:30 | |
| 2nd | Aaron Shuffler | 7/11 12:55 pm | Deedee Homan |
| 3rd | | | |

20 ADDITIONAL REMARKS

| 21 COOLER # | |
|---|---|
| 1 | 350 |
| 2 | |

22 SAMPLER'S SIGNATURE: Brian Heath

ORIGINAL - LAB

ORLANDO LABORATORIES INC.

P.O. Box 149127 • Orlando, Florida 32814

REPORT OF ANALYSIS

Southern States Utilities
300 Fern Dr.
Leesburg, FL 34748

Attn: Brian Heath

Work Order # : 91-03-090
Date Received: 03/07/91
Date Reported: 03/13/91
OLI Contact: L_BALTZLEY

Work ID: #551 Skycrest #2 well
Total Samples: 4

Sampling information is based on data supplied by Client

| SAMPLE IDENTIFICATION | TEST CODES and NAMES used on this report |
|---|---|
| 01 FE | FE_ICP Iron |
| 02 Turb | TURB Turbidity |
| 03 FE | |
| 04 Turb | |

Copy of results to:

Aaron Perlowich
Southern States Utilities
1000 Color Place
Apopka, FL 34748

OLI Florida Department of Health & Rehabilitative Service Identification Numbers are:
Drinking Water Certification Number 83141, Environmental Certification Number E83033

Respectfully Submitted,
ORLANDO LABORATORIES, INC.

LABORATORY DIRECTOR

Eric Malarek
QUALITY CONTROL

ORLANDO LABORATORIES, INC.
Received: 03/07/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-03-090

| | |
|---|---|
| SAMPLE ID FE | SAMPLE # 01A |
| DATE COLLECTED 03/06/91 16:30:00 | MATRIX WATER |
| FE_ICP <0.100 mg/l | |

| | |
|---|---|
| SAMPLE ID Turb | SAMPLE # 02A |
| DATE COLLECTED 03/06/91 16:30:00 | MATRIX WATER |
| TURB <0.50 NTU | |

| | |
|---|---|
| SAMPLE ID FE | SAMPLE # 03A |
| DATE COLLECTED 03/07/91 08:45:00 | MATRIX WATER |
| FE_ICP <0.100 mg/l | |

| | |
|---|---|
| SAMPLE ID Turb | SAMPLE # 04A |
| DATE COLLECTED 03/07/91 08:45:00 | MATRIX WATER |
| TURB <0.50 NTU | |

Southern States Utilities
Attn: Brian Heath

Report No: 91-03-090
Page: 3

## QUALITY CONTROL DATA SHEET

| PARAMETER | DUPLICATES % DIFFERENCE | SPIKES % RECOVERY | DATE | ANALYST |
|---|---|---|---|---|
| Iron | 19 | 100 | 03/08/91 | BB |
| Turbidity | <1 | NA | 03/08/91 | PFE |

NOTE: Due to matrix interference, iron duplicate recovery was outside of QC limits.

#1

# ORLANDO LABORATORIES INC

Plant File

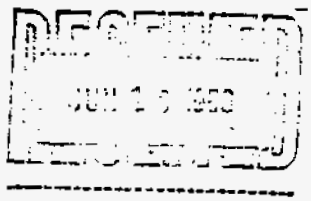
P.O. Box 149127 • Orlando, Florida 32814 • (407) 896-6645

REPORT OF ANALYSIS

Southern States Utilities
1000 Color Place
Apopka. Florida 32703

Attn: Aaron Perlowich

Work ID: 551 Skycrest
Total Samples: 3



Work Order # : 90-05-323
Date Received: 05/23/90
Date Reported: 06/11/90
OLI Contact: E_HOBBS

Sampling information is based on data supplied by Client

SAMPLE IDENTIFICATION
01 Dist. 36803 Skycrest
02 Trip Blank
03 Method Blank

TEST CODES and NAMES used on this report
PWS026 Turbidity Analysis
PWS028 Volatile Organic Analysis
PWS029 Organic Chemical Analysis
PWS030 Inorganic Analysis
PWS031 Secondary Chem. Analysis
PWS033 Radiological Analysis

OLI Florida Department of Health & Rehabilitative Service Identification Numbers are:
Drinking Water Certification Number 83141. Environmental Certification Number E83033

Respectfully Submitted,
ORLANDO LABORATORIES, INC.

Acting
LABORATORY DIRECTOR

Eric Malarek
QUALITY CONTROL

*The Analytical Specialists*

ORLANDO LABORATORIES,INC.
Received: 05/23/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-05-323

SAMPLE ID Dist. 36803 Skycrest
DATE COLLECTED 05/22/90 17:30:00
TEST NAME Turbidity Analysis

SAMPLE# 01A
MATRIX WATER
TEST CODE PWS026

TURBIDITY ANALYSIS
17-550.310(3)
(PWS026)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(NTU) | Analytical Method | Analysis Date |
|---|---|---|---|---|---|---|
| 0100 | Turbidity | | | <1.0 | EPA 180.1 | 05/25/90 |

Comments:

ORLANDO LABORATORIES,INC.
Received: 05/23/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-05-323

SAMPLE ID Well #1 - 36803 Skycrest
DATE COLLECTED 05/22/90 17:30:00
TEST NAME Volatile Organic Analysis

SAMPLE# D1A
MATRIX WATER
TEST CODE PWS028

VOLATILE ORGANIC ANALYSIS
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | | | 0.00002 | U | EPA 504 | 0.00002 | 05/24/90 |
| 2969 | Para-dichlorobenzene | | | 0.0005 | U | EPA 524 | 0.0005 | 05/24/90 |
| 2976 | Vinyl Chloride | | | 0.0005 | U | EPA 524 | 0.0005 | 05/24/90 |
| 2977 | 1,1-Dichloroethene | | | 0.0005 | U | EPA 524 | 0.0005 | 05/24/90 |
| 2980 | 1,2-Dichloroethane | | | 0.0005 | U | EPA 524 | 0.0005 | 05/24/90 |
| 2981 | 1,1,1-trichloroethane | | | 0.0005 | U | EPA 524 | 0.0005 | 05/24/90 |
| 2982 | Carbon Tetrachloride | | | 0.0005 | U | EPA 524 | 0.0005 | 05/24/90 |
| 2984 | Trichloroethene | | | 0.0005 | U | EPA 524 | 0.0005 | 05/24/90 |
| 2987 | Tetrachloroethene | | | 0.0005 | U | EPA 524 | 0.0005 | 05/24/90 |
| 2990 | Benzene | | | 0.0005 | U | EPA 524 | 0.0005 | 05/24/90 |

Comments:

ORLANDO LABORATORIES,INC.
Received: 05/23/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-05-323

SAMPLE ID Dist. 36803 Skycrest
DATE COLLECTED 05/22/90 17:30:00
TEST NAME Organic Chemical Analysis

SAMPLE# 01A
MATRIX WATER
TEST CODE PWS029

ORGANIC CHEMICAL ANALYSIS
17-550.310(2)(a)(b)
(PWS029)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|---|
| 2005 | Endrin | | | 0.00010 | U | EPA 608 | 0.00010 | 05/29/90 |
| 2010 | Lindane | | | 0.00005 | U | EPA 608 | 0.00005 | 05/29/90 |
| 2015 | Methoxychlor | | | 0.00050 | U | EPA 608 | 0.00050 | 05/29/90 |
| 2020 | Toxaphene | | | 0.00100 | U | EPA 608 | 0.00100 | 05/29/90 |
| 2105 | 2,4-D | | | 0.0020 | U | EPA 615 | 0.0020 | 05/30/90 |
| 2110 | 2,4,5-TP (Silvex) | | | 0.0010 | U | EPA 615 | 0.0010 | 05/30/90 |

Comments:

ORLANDO LABORATORIES, INC.
Received: 05/23/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-05-323

SAMPLE ID Dist. 36803 Skycrest
DATE COLLECTED 05/22/90 17:30:00
TEST NAME Inorganic Analysis

SAMPLE# 01A
MATRIX WATER
TEST CODE PWS030

INORGANIC ANALYSIS
17-550.310(1)
(PWS030)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1005 | Arsenic | | | <0.010 | EPA 206.2 | 0.010 | 05/27/90 |
| 1010 | Barium | | | <0.100 | EPA 200.7 | 0.100 | 06/05/90 |
| 1015 | Cadmium | | | <0.005 | EPA 213.2 | 0.005 | 05/29/90 |
| 1020 | Chromium | | | <0.010 | EPA 218.2 | 0.010 | 05/29/90 |
| 1025 | Fluoride | | | .17 | EPA 340.2 | 0.1 | 05/31/90 |
| 1030 | Lead | | | <0.010 | EPA 239.2 | 0.010 | 05/31/90 |
| 1035 | Mercury | | | <0.0005 | EPA 245.1 | 0.0005 | 05/24/90 |
| 1040 | Nitrate (as N) | | | <0.03 | EPA 352.2 | 0.03 | 05/31/90 |
| 1045 | Selenium | | | <0.005 | EPA 270.2 | 0.005 | 05/29/90 |
| 1050 | Silver | | | <0.010 | EPA 272.2 | 0.010 | 05/30/90 |
| 1052 | Sodium | | | 5.10 | EPA 200.7 | 0.001 | 05/29/90 |

Comments:

ORLANDO LABORATORIES, INC.
Received: 05/23/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-05-323

SAMPLE ID Dist. 36803 Skycrest
DATE COLLECTED 05/22/90 17:30:00
TEST NAME Secondary Chem. Analysis

SAMPLE# 01A
MATRIX WATER
TEST CODE PWS031

SECONDARY CHEMICAL ANALYSIS
17-550.320
(PWS031)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1016 | Calcium | | | NOT ANALYZED | | | |
| 1017 | Chloride | | | 7.1 | SM 407 | 1.0 | 05/29/90 |
| 1019 | Carbonate CaCO3 | | | 0 | CALC | 0 | 06/06/90 |
| 1021 | Hydroxide CaCO3 | | | 0 | CALC | 0 | 06/06/90 |
| 1022 | Copper | | | 0.011 | EPA 200.7 | 0.010 | 05/29/90 |
| 1023 | Bicarbonate CaCO3 | | | 100 | CALC | 0 | 06/06/90 |
| 1025 | Fluoride | | | .17 | EPA 340.2 | 0.1 | 05/31/90 |
| 1026 | Bicarbonate HCO3 | | | 120 | CALC | 0 | 06/06/90 |
| 1027 | Hydrogen Sulfide | | | NOT ANALYZED | | | |
| 1028 | Iron | | | <0.100 | EPA 200.7 | 0.100 | 05/29/90 |
| 1031 | Magnesium | | | NOT ANALYZED | | | |
| 1032 | Manganese | | | <0.050 | EPA 200.7 | 0.050 | 05/29/90 |
| 1055 | Sulfate | | | 1.3 | EPA 375.4 | 1.0 | 05/30/90 |
| 1095 | Zinc | | | <0.050 | EPA 200.7 | 0.050 | 05/29/90 |
| 1901 | Carbon Dioxide | | | 3.0 | SM 406 C | 1.0 | 06/06/90 |
| 1905 | Color (color units) | | | <5 | EPA 270.2 | 5 PCU | 05/25/90 |
| 1915 | Total Hardness | | | 81.0 | EPA 200.7 | 0.050 | 05/29/90 |
| 1917 | NCH as CaCO3 | | | NOT ANALYZED | | | |
| 1920 | Odor | | | 2 | EPA 140.1 | 1 | 05/25/90 |
| 1924 | Field pH (units) | | | NOT ANALYZED | | | |
| 1925 | Lab pH (units) | | | 7.75 | EPA 150.1 | N/A | 05/25/90 |
| 1926 | Field Conductivity | | | NOT ANALYZED | | | |

ORLANDO LABORATORIES,INC.
Received: 05/23/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-05-323
Continued From Above

SAMPLE ID Dist. 36803 Skycrest
DATE COLLECTED 05/22/90 17:30:00
TEST NAME Secondary Chem: Analysis

SAMPLE# 01A
MATRIX WATER
TEST CODE PWS031

*** Contiued from above***
SECONDARY CHEMICAL ANALYSIS
17-550.320
(PWS031)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1927 | Total Alkalinity | | | 100 | EPA 310.1 | 2.0 | 05/25/90 |
| 1930 | TDS | | | 140 | EPA 160.1 | 1.0 | 05/29/90 |
| 1931 | Phenolphthalein Alk. | | | <2.0 | EPA 310.1 | 2.0 | 05/25/90 |
| 1996 | Field Temp. (C) | | | NOT ANALYZED | | | |
| 1997 | Langlier Index pHs | | | 7.89 | CALC | N/A | 06/06/90 |
| 1998 | Saturation Index | | | -0.14 | CALC | N/A | 06/06/90 |
| 1999 | Stability Index | | | 8.03 | CALC | N/A | 06/06/90 |
| 2909 | Foaming Agents | | | <0.10 | EPA 425.1 | 0.1 | 05/25/90 |
| 9996 | Field DO | | | NOT ANALYZED | | | |
| 9997 | Field Chlorine | | | NOT ANALYZED | | | |

Comments:

ORLANDO LABORATORIES, INC.
Received: 05/23/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-05-323

SAMPLE ID Dist. 36803 Skycrest
DATE COLLECTED 05/22/90 17:30:00
TEST NAME Radiological Analysis

SAMPLE# 01A
MATRIX WATER
TEST CODE PWS033

RADIOLOGICAL ANALYSIS
17-550.310(5)
(PWS033)

| Parameter ID | Name | Sample Number | Analysis Result(pCi/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|
| 4002 | Gross Alpha | | 1.4 | EPA 900.0 | +/- 1.3 | 05/30/90 |

Comments:

ORLANDO LABORATORIES, INC.
Received: 05/23/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-05-323

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME Volatile Organic Analysis

SAMPLE# 03A
MATRIX METHOD BLANK
TEST CODE PWS028

VOLATILE ORGANIC ANALYSIS
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | | | 0.00002 | U | EPA 504 | 0.00002 | 05/24/90 |
| 2969 | Para-dichlorobenzene | | | 0.0005 | U | EPA 524 | 0.0005 | 05/24/90 |
| 2976 | Vinyl Chloride | | | 0.0005 | U | EPA 524 | 0.0005 | 05/24/90 |
| 2977 | 1,1-Dichloroethene | | | 0.0005 | U | EPA 524 | 0.0005 | 05/24/90 |
| 2980 | 1,2-Dichloroethane | | | 0.0005 | U | EPA 524 | 0.0005 | 05/24/90 |
| 2981 | 1,1,1-trichloroethane | | | 0.0005 | U | EPA 524 | 0.0005 | 05/24/90 |
| 2982 | Carbon Tetrachloride | | | 0.0005 | U | EPA 524 | 0.0005 | 05/24/90 |
| 2984 | Trichloroethene | | | 0.0005 | U | EPA 524 | 0.0005 | 05/24/90 |
| 2987 | Tetrachloroethene | | | 0.0005 | U | EPA 524 | 0.0005 | 05/24/90 |
| 2990 | Benzene | | | 0.0005 | U | EPA 524 | 0.0005 | 05/24/90 |

Comments:

ORLANDO LABORATORIES,INC.
Received: 05/23/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-05-323

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME Organic Chemical Analysis

SAMPLE# 03A
MATRIX METHOD BLANK
TEST CODE PWS029

ORGANIC CHEMICAL ANALYSIS
17-550.310(2)(a)(b)
(PWS029)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|---|
| 2005 | Endrin | | | 0.00010 | U | EPA 608 | 0.00010 | 05/29/90 |
| 2010 | Lindane | | | 0.00005 | U | EPA 608 | 0.00005 | 05/29/90 |
| 2015 | Methoxychlor | | | 0.00050 | U | EPA 608 | 0.00050 | 05/29/90 |
| 2020 | Toxaphene | | | 0.00100 | U | EPA 608 | 0.00100 | 05/29/90 |
| 2105 | 2,4-D | | | 0.0020 | U | EPA 615 | 0.0020 | 05/30/90 |
| 2110 | 2,4,5-TP (Silvex) | | | 0.0010 | U | EPA 615 | 0.0010 | 05/30/90 |

Comments:

ORLANDO LABORATORIES,INC.
Received: 05/23/90

REPORT OF ANALYSIS
NonReported Work

Work Order # 90-05-323

FRACTION AND TEST CODES FOR WORK NOT REPORTED ELSEWHERE

02A : NOTEST

Southern States Utilities
Attn: Aaron Perlowich

Report No: 90-05-223
Page No: 12

## QUALITY CONTROL DATA SHEET

| PARAMETER | DUPLICATES % DIFFERENCE | SPIKES % RECOVERY | DATE | ANALYST |
|---|---|---|---|---|
| Turbidity | <1 | N/A | 05/24/90 | KH |
| Odor | <1 | N/A | 05/25/90 | KH |
| pH | <1 | N/A | 05/25/90 | SRK |
| Total Alkalinity | <1 | 97 | 05/25/90 | SRK |
| Color | <1 | N/A | 05/25/90 | KH |
| MBAS | 3 | 106 | 05/25/90 | DB |
| Chloride | <1 | 101 | 05/29/90 | RJW |
| TDS | 3 | 93 | 05/29/90 | KH |
| Nitrogen, Nitrite | <1 | 109 | 05/25/90 | DB |
| Fluoride | <1 | 99 | 05/31/90 | KH |
| Sulfate | 2 | 102 | 05/30/90 | RJW |
| Nitrogen, Nitrate | <1 | 100 | 06/01/90 | DR |
| Arsenic | <1 | 92 | 05/27/90 | CFG |
| Selenium | <1 | 99 | 05/29/90 | CFG |
| Barium | <1 | 103 | 05/29/90 | BB |
| Cadmium | <1 | 108 | 05/29/90 | BB |
| Chromium | <1 | 105 | 05/29/90 | BB |
| Sodium | 1 | 101 | 05/29/90 | BB |
| Copper | 1 | 100 | 05/29/90 | BB |
| Iron | <1 | 104 | 05/29/90 | BB |
| Manganese | <1 | 108 | 05/29/90 | BB |
| Zinc | 1 | 105 | 05/29/90 | BB |
| Calcium | <1 | 105 | 05/29/90 | BB |
| Silver | <1 | 99 | 05/30/90 | CFG |
| Mercury | <1 | 104 | 05/24/90 | EH |
| Mercury | 2 | 104 | 05/24/90 | EH |
| Lead | <1 | 92 | 05/30/90 | JC |
| Gross Alpha | 2.3 | 87 | 05/29/90 | JAE |

Note: The duplicate for Gross Alpha is reported as actual difference rather than percent difference as specified.

ORLANDO LABORATORIES, INC.

GC ORGANICS



# MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 05-31-1990

LAB SAMPLE # : 9005282-01a
ANALYSIS DATE : 05/29/90

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD | |
|---|---|---|---|---|---|---|---|---|
| GAMMA-BHC (LINDANE) | 100 | 0 | 98 | 98 | 85 | 85 | 14 | |
| HEPTACHLOR | 100 | 0 | 100 | 100 | 90 | 90 | 11 | |
| ALDRIN | 100 | 0 | 88 | 88 | 73 | 73 | 9 | |
| DIELDRIN | 100 | 0 | 90 | 90 | 77 | 77 | 16 | |
| ENDRIN | 100 | 0 | 112 | 112 | 83 | 83 | 30 | * |
| 4,4-DDT | 100 | 0 | 100 | 100 | 92 | 92 | 8 | |

COMMENTS : * = parameter outside QC limits.

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| GAMMA-BHC (LINDANE) | 56 | 123 | 15 | 46 | 127 | 50 |
| HEPTACHLOR | 40 | 131 | 20 | 35 | 130 | 31 |
| ALDRIN | 40 | 120 | 22 | 34 | 132 | 43 |
| DIELDRIN | 52 | 126 | 18 | 31 | 134 | 38 |
| ENDRIN | 56 | 121 | 21 | 42 | 139 | 45 |
| 4,4-DDT | 38 | 127 | 27 | 23 | 134 | 50 |

ORLANDO LABORATORIES, INC.

GC ORGANICS



# MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 05-31-1990

LAB SAMPLE # : 9005323-01a
ANALYSIS DATE : 05/30/90

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| 2,4,5-TP (silver) | 100 | 0 | 92 | 92 | 66 | 66 | 33 * |

COMMENTS : * = parameter outside QC limits.

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| 2,4,5-TP (silver) | 53 | 132 | 30 | 50 | 130 | 32 |

GC/MS VOLATILE ORGANICS

MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 5-26-90

LAB SAMPLE # : 90-05-324-1
ANALYSIS DATE : 5-24-90

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| 1,1-dichloroethene | 50 | 0 | 43 | 86 | 40 | 80 | 7 |
| trichloroethene | 50 | 0 | 57 | 114 | 52 | 104 | 9 |
| benzene | 50 | 0 | 47 | 94 | 48 | 96 | 2 |
| toluene | 50 | 0 | 52 | 104 | 46 | 92 | 12 |
| chlorobenzene | 50 | 0 | 50 | 100 | 48 | 96 | 4 |

COMMENTS : * = parameter outside QC limits.

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| 1,1-dichloroethene | 61 | 145 | 14 | 59 | 172 | 22 |
| trichloroethene | 71 | 120 | 14 | 62 | 137 | 24 |
| benzene | 76 | 127 | 11 | 66 | 142 | 21 |
| toluene | 76 | 125 | 13 | 59 | 139 | 21 |
| chlorobenzene | 75 | 130 | 13 | 60 | 133 | 21 |

ORLANDO LABORATORIES, INC.



GC ORGANICS

# MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 05-24-1990

LAB SAMPLE # : 9005318-01a
ANALYSIS DATE : 05/24/90

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| ETHYLENE DIBROMIDE | 100 | 0 | 55 | 55 | 53 | 53 | 4 |

COMMENTS :

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| ETHYLENE DIBROMIDE | 39 | 90 | 20 | 35 | 90 | 20 |

End of Report

# PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: _____
Public Water System Name: Skyoasis
Public Water System Type (check one):
( ) Community ( ) Non-community ( ) Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: 83141
Parameter Group(s) Analyzed: PWS026, 028, 029, 030, 031 & PWS033
Subcontracted Lab Certification Number (if any): N/A

**SAMPLE INFORMATION**
Sample Date (MMDDYY): 05 / 22/90
Laboratory Sample Number: 90-05-323
Sample Location (be specific): _____
Sample Type (check all applicable):
( ) Check ( ) Regular Distribution ( ) Composite
( ) Clearance ( ) Maximum Residence Time ( ) Plant Tap
( ) Raw ( ) Well ( ) Re-sample
( ) Special _____
Sampler Name, Title, Phone: _____

**ANALYSIS INFORMATION**
Extraction Date (MMDDYY): / / N/A
Laboratory Contact: Eric Malarek
Re-sample Requested? (check one): ( ) Yes ( ) No
ANALYSES SUBMITTED: Turbidity__; Inorganic__; Trihalomethane__; Volatile Organic__; Organic Chemical__; Secondary Chemical__; Radiological__; Unregulated Organic Purgeable__; Unregulated Organic Pesticide__; Unregulated Base Neutral Extractable__; Unregulated Acid Extractable__; (Check all analyses which apply.)

I do HEREBY CERTIFY that all data submitted is correct.

Signature Eric Malarek

Name Eric Malarek

Title Quality Control Officer

Laboratory Orlando Laboratories, Inc.

Date 6-11-90

Mail Results to the Appropriate DER or ACPHU Office:

DER/ACPHU Reviewing Official:

_____

Sample Interpretation (check one)
( ) Satisfactory ( ) Unsatisfactory

# ORLANDO LABORATORIES INC

DOH

P.O. Box 149127 • Orlando, Florida 32814

REPORT OF ANALYSIS

Southern States Utilities
1000 Color Place
Apopka, Florida 32703

Work Order # : 90-09-309
Date Received: 09/27/90
Date Reported: 10/03/90
OLI Contact: E_HOBBS

Attn: Aaron Perlowich

Work ID: 551 Skycrest #1 well #335/205
Total Samples: 3

Sampling information is based on data supplied by Client

| SAMPLE IDENTIFICATION | TEST CODES and NAMES used on this report |
|---|---|
| 01 #1 well | PWS028 Volatile Organic Analysis |
| 02 Trip Blank | |
| 03 Method Blank | |

2nd Qtr.

Next 12-90

OLI Florida Department of Health & Rehabilitative Service Identification Numbers are: Drinking Water Certification Number 83141, Environmental Certification Number E83033

Respectfully Submitted,
ORLANDO LABORATORIES, INC.

Acting
LABORATORY DIRECTOR

Eric Malarek
QUALITY CONTROL

ORLANDO LABORATORIES,INC.
Received: 09/27/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-09-309

SAMPLE ID #1 well
DATE COLLECTED 09/27/90 13:30:00
TEST NAME Volatile Organic Analysis

SAMPLE# 01A
MATRIX WATER
TEST CODE PWS028

VOLATILE ORGANIC ANALYSIS
[illegible]
PWS028

| Parameter ID | Name | Sample Number | Location Code | Analysis Result (mg/l) | | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | | | 0.00002 | U | EPA 504 | 0.00002 | 10/01/90 |
| 2959 | Para-dichlorobenzene | | | 0.0005 | U | EPA 524 | 0.0005 | 09/28/90 |
| 2976 | Vinyl chloride | | | 0.0005 | U | EPA 524 | 0.0005 | 09/28/90 |
| 2977 | 1,1-Dichloroethene | | | 0.0005 | U | EPA 524 | 0.0005 | 09/28/90 |
| 2980 | 1,2-Dichloroethane | | | 0.0005 | U | EPA 524 | 0.0005 | 09/28/90 |
| 2981 | 1,1,1-Trichloroethane | | | 0.0005 | U | EPA 524 | 0.0005 | 09/28/90 |
| 2982 | Carbon tetrachloride | | | 0.0005 | U | EPA 524 | 0.0005 | 09/28/90 |
| 2984 | Trichloroethene | | | 0.0005 | U | EPA 524 | 0.0005 | 09/28/90 |
| 2987 | Tetrachloroethene | | | 0.0005 | U | EPA 524 | 0.0005 | 09/28/90 |
| 2990 | Benzene | | | 0.0005 | U | EPA 524 | 0.0005 | 09/28/90 |

Comments:

ORLANDO LABORATORIES,INC.
Received: 09/27/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-09-309

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME Volatile Organic Analysis

SAMPLE# 05A
MATRIX METHOD BLANK
TEST CODE PWS028

VOLATILE ORGANIC ANALYSIS
(7-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | | | 0.00002 | U | EPA 504 | 0.00002 | 10/01/90 |
| 2969 | Para-dichlorobenzene | | | 0.0005 | U | EPA 504 | 0.0005 | 09/28/90 |
| 2976 | Vinyl Chloride | | | 0.0005 | U | EPA 504 | 0.0005 | 09/28/90 |
| 2977 | 1,1-Dichloroethene | | | 0.0005 | U | EPA 504 | 0.0005 | 09/28/90 |
| 2980 | 1,2-Dichloroethane | | | 0.0005 | U | EPA 504 | 0.0005 | 09/28/90 |
| 2981 | 1,1,1-Trichloroethane | | | 0.0005 | U | EPA 504 | 0.0005 | 09/28/90 |
| 2982 | Carbon Tetrachloride | | | 0.0005 | U | EPA 504 | 0.0005 | 09/28/90 |
| 2984 | Trichloroethene | | | 0.0005 | U | EPA 504 | 0.0005 | 09/28/90 |
| 2987 | Tetrachloroethene | | | 0.0005 | U | EPA 504 | 0.0005 | 09/28/90 |
| 2990 | Benzene | | | 0.0005 | U | EPA 504 | 0.0005 | 09/28/90 |

Comments:

ORLANDO LABORATORIES,INC.
Received: 09/27/90

REPORT OF ANALYSIS
Nonreported Work

Work Order # 90-09-309

FRACTION AND TEST CODES FOR WORK NOT REPORTED ELSEWHERE

OCA : NOTEST

ORLANDO LABORATORIES, INC.

GC ORGANICS

# MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 10-01-1990

LAB SAMPLE # : 9009282-1&2
ANALYSIS DATE : 10/01/90

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| ETHYLENE DIBROMIDE | 100 | 0 | 0 | 0 * | 62 | 62 | 0 * |

COMMENTS : * = parameter outside QC limits.
Spike compound(s) not found in MS or MSD run.

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| ETHYLENE DIBROMIDE | 50 | 100 | 20 | 35 | 90 | 20 |

high matrix interferences on 282-1 prevented recovery calculations

ORLANDO LABORATORIES INC.



GC/MS VOLATILE ORGANICS

# MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 10-03-1990

LAB SAMPLE # : 9009310-2 524
ANALYSIS DATE : 9/28/90

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| 1,1-dichloroethene | 50 | 0 | 48 | 96 | 50 | 100 | 4 |
| trichloroethene | 50 | 0 | 54 | 108 | 48 | 96 | 12 |
| benzene | 50 | 0 | 52 | 104 | 53 | 106 | 2 |
| toluene | 50 | 0 | 53 | 106 | 55 | 110 | 4 |
| chlorobenzene | 50 | 0 | 54 | 108 | 53 | 106 | 2 |

COMMENTS :

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| 1,1-dichloroethene | 61 | 145 | 14 | 59 | 172 | 22 |
| trichloroethene | 71 | 120 | 14 | 62 | 137 | 24 |
| benzene | 76 | 127 | 11 | 66 | 142 | 21 |
| toluene | 76 | 125 | 13 | 59 | 139 | 21 |
| chlorobenzene | 75 | 130 | 13 | 60 | 133 | 21 |

End of Report

# PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: _____
Public Water System Name: Seyenet
Public Water System Type (check one):
(✓) Community ( ) Non-community ( ) Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: 83141
Parameter Group(s) Analyzed: Volatile Organics
Subcontracted Lab Certification Number (if any): n/a

**SAMPLE INFORMATION**
Sample Date (MMDDYY): 09/27/90
Laboratory Sample Number: 90-09-389
Sample Location (be specific): Plant
Sample Type (check all applicable):
( ) Check ( ) Regular Distribution ( ) Composite
( ) Clearance ( ) Maximum Residence Time ( ) Plant Tap
(✓) Raw (✓) Well ( ) Re-sample
( ) Special _____
Sampler Name, Title, Phone: Don Conder, Area Supervisor, 888-0058

**ANALYSIS INFORMATION**
Extraction Date (MMDDYY): 09 27 90
Laboratory Contact: Eric Malarek
Re-sample Requested? (check one): ( ) Yes (✓) No
ANALYSES SUBMITTED: Turbidity__; Inorganic__; Trihalomethane__; Volatile Organic✓; Organic Chemical__; Secondary Chemical__; Radiological__; Unregulated Organic Purgeable__; Unregulated Organic Pesticide__; Unregulated Base Neutral Extractable__; Unregulated Acid Extractable__; (Check all analyses which apply.)

I do HEREBY CERTIFY that all data submitted is correct.

Signature Eric Malarek

Name Eric Malarek

Title Quality Control Officer

Laboratory Orlando Laboratories, Inc.

Date 10/3/90

Mail Results to the Appropriate DER or ACPHU Office:

DER/ACPHU Reviewing Official:

_____

Sample Interpretation (check one)
( ) Satisfactory ( ) Unsatisfactory

ORLANDO LABORATORIES, INC.
P.O. Box 149127, Orlando, FL 32814
(407) 898-6645 FAX (407) 898-6588

# CHAIN-OF-CUSTODY RECORD

(INSTRUCTIONS ON BACK)

Page 1 of 1

1 INVOICE TO: (COMPANY AND INDIVIDUAL): SSU Services
ADDRESS (CITY, STATE, ZIP): 1000 Color Place - Apopka

4 ORIGINAL REPORT TO: (COMPANY AND INDIVIDUAL): Same
ADDRESS (CITY, STATE, ZIP):

7 (OPTIONAL) ADDITIONAL REPORTS SENT TO:
ADDRESS: (CITY, STATE, ZIP):

8 CLIENT PROJECT NAME: SSU - Skycrest #
9 CLIENT PROJECT #: 551

2 CONTACT PERSON/PHONE # INVOICE:
3 OLI WORK ORDER # (LAB USE): 9009309
5 CONTACT PERSON/PHONE # REPORT:
6 RB NUMBER (LAB USE): 2100

| 10 SAMPLE IDENTIFICATION | 11 DATE/TIME | 12 COMP | GRAB | WATER | SOIL | OTHER | 13 SAMPLE DESCRIPTION | 17 NUMBER OF CONTAINERS | 18 REQUESTED ANALYSIS: VOC's (DW 524.2) | REMARKS 19 |
|---|---|---|---|---|---|---|---|---|---|---|
| #1 Well | 9-27/1130 PM | | | ✓ | ✓ | | 2nd Q VOC's | 5 | ✓ | |

| TRANSFER NUMBER | 14 RELINQUISHED BY | 15 DATE/TIME | 16 ACCEPTED BY |
|---|---|---|---|
| 1st | [illegible] | 9/27 8 30 | |
| 2nd | Donald B. Cordle | 9/27/16 10 | Deedee Homan |
| 3rd | | | |

20 ADDITIONAL REMARKS:

21 COOLER #'s:

22 SAMPLER'S SIGNATURE: Donald B. Cordle

ORIGINAL - LAB
YELLOW - FILE
PINK - CLIENT

0248

Plant File
DOW

# ORLANDO LABORATORIES INC

P.O. Box 149127 • Orlando, Florida 32814

REPORT OF ANALYSIS

Southern States Utilities
1000 Color Place
Apopka, Florida 32703

Attn: Aaron Perlowich

Work Order # : 90-12-282
Date Received: 12/19/90
Date Reported: 12/31/90
OLI Contact: L_BALTZLEY

Work ID: #1 SkyCrest
Total Samples: 3

Sampling information is based on data supplied by Client

| SAMPLE IDENTIFICATION | TEST CODES and NAMES used on this report |
|---|---|
| 01 Skycrest Well #1 | PWS028 Volatile Organic Analysis |
| 02 Trip Blank | |
| 03 Method Blank | |

3rd Qtr.

OLI Florida Department of Health & Rehabilitative Service Identification Numbers are:
Drinking Water Certification Number 83141, Environmental Certification Number E83033

Respectfully Submitted,
ORLANDO LABORATORIES, INC.

Acting
LABORATORY DIRECTOR

Eric Malarek
QUALITY CONTROL

ORLANDO LABORATORIES, INC.
Received: 12/19/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-12-282

SAMPLE ID Skycrest Well #1
DATE COLLECTED 12/18/90 17:00:00
TEST NAME Volatile Organic Analysis

SAMPLE# 01A
MATRIX WATER
TEST CODE PWS028

VOLATILE ORGANIC ANALYSIS
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | | | 0.00002 | U | EPA 504 | 0.00002 | 12/20/90 |
| 2969 | Para-dichlorobenzene | | | 0.0005 | U | EPA 524 | 0.0005 | 12/20/90 |
| 2976 | Vinyl Chloride | | | 0.0005 | U | EPA 524 | 0.0005 | 12/20/90 |
| 2977 | 1,1-Dichloroethene | | | 0.0005 | U | EPA 524 | 0.0005 | 12/20/90 |
| 2980 | 1,2-Dichloroethane | | | 0.0005 | U | EPA 524 | 0.0005 | 12/20/90 |
| 2981 | 1,1,1-trichloroethane | | | 0.0005 | U | EPA 524 | 0.0005 | 12/20/90 |
| 2982 | Carbon Tetrachloride | | | 0.0005 | U | EPA 524 | 0.0005 | 12/20/90 |
| 2984 | Trichloroethene | | | 0.0005 | U | EPA 524 | 0.0005 | 12/20/90 |
| 2987 | Tetrachloroethene | | | 0.0005 | U | EPA 524 | 0.0005 | 12/20/90 |
| 2990 | Benzene | | | 0.0005 | U | EPA 524 | 0.0005 | 12/20/90 |

Comments:

ORLANDO LABORATORIES, INC.
Received: 12/19/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-12-282

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME Volatile Organic Analysis

SAMPLE# 03A
MATRIX METHOD BLANK
TEST CODE PWS028

VOLATILE ORGANIC ANALYSIS
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | | | 0.00002 | U | EPA 504 | 0.00002 | 12/20/90 |
| 2969 | Para-dichlorobenzene | | | 0.0005 | U | EPA 524 | 0.0005 | 12/20/90 |
| 2976 | Vinyl Chloride | | | 0.0005 | U | EPA 524 | 0.0005 | 12/20/90 |
| 2977 | 1,1-Dichloroethene | | | 0.0005 | U | EPA 524 | 0.0005 | 12/20/90 |
| 2980 | 1,2-Dichloroethane | | | 0.0005 | U | EPA 524 | 0.0005 | 12/20/90 |
| 2981 | 1,1,1-trichloroethane | | | 0.0005 | U | EPA 524 | 0.0005 | 12/20/90 |
| 2982 | Carbon Tetrachloride | | | 0.0005 | U | EPA 524 | 0.0005 | 12/20/90 |
| 2984 | Trichloroethene | | | 0.0005 | U | EPA 524 | 0.0005 | 12/20/90 |
| 2987 | Tetrachloroethene | | | 0.0005 | U | EPA 524 | 0.0005 | 12/20/90 |
| 2990 | Benzene | | | 0.0005 | U | EPA 524 | 0.0005 | 12/20/90 |

Comments:

ORLANDO LABORATORIES,INC.
Received: 12/19/90

REPORT OF ANALYSIS
NonReported Work

Work Order # 90-12-282

FRACTION AND TEST CODES FOR WORK NOT REPORTED ELSEWHERE

02A : NOTEST

ORLANDO LABORATORIES INC.

GC/MS VOLATILE ORGANICS

MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 12-23-1990

LAB SAMPLE # : 9012284-2 524
ANALYSIS DATE : 12/20/90

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| 1,1-dichloroethene | 50 | 0 | 52 | 104 | 60 | 120 | 14 |
| trichloroethene | 50 | 0 | 61 | 122 * | 51 | 102 | 18 * |
| benzene | 50 | 0 | 51 | 102 | 52 | 104 | 2 |
| toluene | 50 | 0 | 57 | 114 | 54 | 108 | 5 |
| chlorobenzene | 50 | 0 | 59 | 118 | 53 | 106 | 11 |

COMMENTS : * = parameter outside QC limits.

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| 1,1-dichloroethene | 61 | 145 | 14 | 59 | 172 | 22 |
| trichloroethene | 71 | 120 | 14 | 62 | 137 | 24 |
| benzene | 76 | 127 | 11 | 66 | 142 | 21 |
| toluene | 76 | 125 | 13 | 59 | 139 | 21 |
| chlorobenzene | 75 | 130 | 13 | 60 | 133 | 21 |

ORLANDO LABORATORIES, INC.

GC ORGANICS

# MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 12-20-1990

LAB SAMPLE # : 90122838284-1
ANALYSIS DATE : 12/20/90

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| ETHYLENE DIBROMIDE | 100 | 0 | 50 | 50 | 53 | 53 | 6 |

COMMENTS :

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| ETHYLENE DIBROMIDE | 50 | 100 | 20 | 35 | 90 | 20 |

End of Report

## PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: _____
Public Water System Name: Skyforest
Public Water System Type (check one):
( ) Community ( ) Non-community ( ) Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: 83141
Parameter Group(s) Analyzed: Volatile Organic Analysis

Subcontracted Lab Certification Number (if any): N/A

**SAMPLE INFORMATION**
Sample Date (MMDDYY): 12/18/90
Laboratory Sample Number: 90-12-282
Sample Location: _____
Sample Type (check all applicable):
( ) Check ( ) Regular Distribution ( ) Composite
( ) Clearance ( ) Maximum Residence Time ( ) Plant Tap
( ) Raw ( ) Well ( ) Re-sample
( ) Special _____
Sampler Name, Title, Phone: _____

**ANALYSIS INFORMATION**
Extraction Date (MMDDYY): 12/19/90 (504)
Laboratory Contact: Eric Malarek
Re-sample Requested? (check one): ( ) Yes ( ) No
ANALYSES SUBMITTED: Turbidity__;Inorganic__;Trihalomethane__;
Volatile Organic__;Organic Chemical__;Secondary Chemical__;
Radiological__;Unregulated Organic Purgeable__; Unregulated
Organic Pesticides__;Unregulated Base Neutral Extractable__;
Unregulated Acid Extractable__; (Check all analyses which apply.)

I do HEARBY CERTIFY that all data submitted is correct.

Signature Eric Malarek

Name Eric Malarek

Title Quality Control Officer

Laboratory Orlando Laboratories, Inc.

Date 12/31/90

Mail Results to the Appropriate DER or ACPHU Office:

DER/ACPHU Reviewing Official

_____

Sample Interpretation (check one)
( ) Satisfactory ( ) Unsatisfactory

**ORLANDO LABORATORIES, INC.**
P.O. Box 149127, Orlando, FL 32814
(407) 896-6645 FAX (407) 898-6588

# CHAIN-OF-CUSTODY RECORD
(INSTRUCTIONS ON BACK)

Page 1 of 1

| | | | |
|---|---|---|---|
| 1 INVOICE TO (COMPANY AND INDIVIDUAL): SSU Services | ADDRESS (CITY, STATE, ZIP): 1000 Color Place Apopka 32703 | 2 CONTACT PERSON/PHONE # INVOICE: 407-880-0058 | 3 OLI WORK ORDER # (LAB USE): 9012282 |
| 4 ORIGINAL REPORT TO (COMPANY AND INDIVIDUAL) | ADDRESS (CITY, STATE, ZIP) | 5 CONTACT PERSON/PHONE # REPORT | 6 RS NUMBER (LAB USE): 2726 |
| 7 (OPTIONAL) ADDITIONAL REPORTS SENT TO: Aaron Perlowich | ADDRESS (CITY, STATE, ZIP): " " " " 32703 | 17 NUMBER OF CONTAINERS | 18 REQUESTED ANALYSIS: 524B, 534R |
| 8 CLIENT PROJECT NAME | 9 CLIENT PROJECT #: SKY Crest #1 well | | |

| 10 SAMPLE IDENTIFICATION | 11 DATE/TIME | 12 COMP | GRAB | WATER | SOIL | OTHER | 13 SAMPLE DESCRIPTION | NUMBER OF CONTAINERS | 19 REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| | 12-18-90 5:00 pm | | X | X | | | well #1 | 4 | |

| TRANSFER NUMBER | 14 RELINQUISHED BY | 15 DATE/TIME | 16 ACCEPTED BY |
|---|---|---|---|
| 1st | Signed | 12/14 3:00 | |
| 2nd | Yvonne Shifflin | 12/19 14:20 | Deedee Homan |
| 3rd | | | |

20 ADDITIONAL REMARKS:

21 COOLER #'s: A-11

22 SAMPLER'S SIGNATURE: Brian E. Heath

ORIGINAL - LAB
YELLOW - FILE
PINK - CLIENT

0256

SSU SERVICES

**General Offices**
1000 Color Place
Apopka, FL 32703
(407) 880-0058

April 30, 1991

Ms. Marie Carrasquillo
State of Florida
Department of Environmental Regulations
3319 Maguire Boulevard
Suite 232
Orlando, Florida 32803-3767

Re: Fern Terrace PWS ID #3350370
Piney Woods/Spring Lake PWS ID #3351021
Stone Mountain PWS ID #3351282
Imperial Terrace PWS ID #3350584
Skycrest PWS ID #3351205
Grand Terrace PWS ID #3354697
Sunshine Parkway PWS ID #3350691

Dear Ms. Carrasquillo,

Enclosed please find results for Volatile Organic Analysis, Unregulated Organic Purgeables, Unregulated Organic Pesticides, Unregulated Base Neutral Extracts and Unregulated Acid Extractables for the above referenced facilities.

Please enter this information into your records.

Sincerely,

SSU Services

Donald B. Corder

Donald B. Corder
Area Supervisor

DBC/jlm
cc: Charles Sweat
Frank Sanderson
Ralph Terrero
Clara Dozier
File

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Apr16 1991
PO Number: 891053

PO Number
FDHRS Lab# : 83139
FDER Lab# : EB3018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WATER SAMPLE
Date Received: Mar27 1991 Lab Number : 16557

REPORT OF ANALYSIS

Skycrest
4th Qtr.
well #1
1st Qtr.
well #2

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16557 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 95.4 | 5.11 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 106 | 1.67 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 97.8 | 1.96 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 97.8 | 1.96 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 106 | 1.70 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 96.9 | 1.10 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 98.0 | 1.21 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 97.1 | .546 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 100 | .986 | <0.001 |
| Benzene | mg/L | 0.001 | 92.4 | .284 | <0.001 |
| Chloromethane | mg/L | 0.001 | 101 | 1.47 | <0.001 |
| Dichlorodifluorometh | mg/L | 0.001 | 98.0 | 1.21 | <0.001 |
| Bromomethane | mg/L | 0.001 | 101 | 1.47 | <0.001 |
| Chloroethane | mg/L | 0.001 | 97.8 | 1.96 | <0.001 |
| Trichlorofluorometha | mg/L | 0.001 | 98.0 | 1.21 | <0.001 |
| trans-1,3,-dichlorop | mg/L | 0.001 | 107 | .457 | <0.001 |
| cis-1,3-dichloroprop | mg/L | 0.001 | 108 | 1.15 | <0.001 |
| Methyl-tert-butyleth | mg/L | 0.001 | 107 | 7.16 | <0.001 |
| cis-1,2-dichloroethe | mg/L | 0.001 | 108 | 1.15 | <0.001 |
| Dibromomethane | mg/L | 0.001 | 101 | 1.47 | <0.001 |
| 1,1-dichloropropene | mg/L | 0.001 | 97.3 | 0.95 | <0.001 |
| 1,3-dichloropropane | mg/L | 0.001 | 107 | .457 | <0.001 |
| 1,2,3-trichloropropa | mg/L | 0.001 | 111 | 4.66 | <0.001 |
| 2,2-dichloropropane | mg/L | 0.001 | 97.8 | 1.96 | <0.001 |
| 1,2-dibromo-3-chloro | mg/L | 0.001 | 111 | 4.66 | <0.001 |
| Chloroform | mg/L | 0.001 | 95.4 | .495 | <0.001 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P.O. BOX 950597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS 407 339-5562

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Apr16 1991
PO Number: 891053

PO Number
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WATER SAMPLE
Date Received: Mar27 1991 Lab Number : 16557

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16557 |
|---|---|---|---|---|---|
| Bromoform | mg/L | 0.001 | 106 | .818 | <0.001 |
| Bromodichloromethane | mg/L | 0.001 | 101 | .546 | <0.001 |
| Dibromochloromethane | mg/L | 0.001 | 103 | .315 | <0.001 |
| p-xylene | mg/L | 0.001 | 102 | 1.09 | <0.001 |
| Methylene chloride | mg/L | 0.001 | 101 | 1.47 | <0.001 |
| o-chlorotoluene | mg/L | 0.001 | 108 | 3.16 | <0.001 |
| p-chlorotoluene | mg/L | 0.001 | 91.8 | .875 | <0.001 |
| m-dichlorobenzene | mg/L | 0.001 | 108 | 1.38 | <0.001 |
| o-dichlorobenzene | mg/L | 0.001 | 99.4 | .848 | <0.001 |
| 1,1-dichloroethane | mg/L | 0.001 | 94.5 | 1.15 | <0.001 |
| trans-1,2-dichloroet | mg/L | 0.001 | 105 | 2.36 | <0.001 |
| 1,2-dichloropropane | mg/L | 0.001 | 97.7 | .129 | <0.001 |
| 1,1,2-trichloroethan | mg/L | 0.001 | 105 | 1.07 | <0.001 |
| 1,1,1,2-tetrachloroe | mg/L | 0.001 | 104 | 1.99 | <0.001 |
| 1,1,2,2-tetrachloroe | mg/L | 0.001 | 104 | 1.43 | <0.001 |
| Chlorobenzene | mg/L | 0.001 | 94.3 | .441 | <0.001 |
| Toluene | mg/L | 0.001 | 91.8 | .875 | <0.001 |
| Ethylbenzene | mg/L | 0.001 | 94.1 | 1.34 | <0.001 |
| Bromobenzene | mg/L | 0.001 | 94.3 | .441 | <0.001 |
| m-xylene | mg/L | 0.001 | 102 | 1.09 | <0.001 |
| Styrene | mg/L | 0.001 | 91.8 | .875 | <0.001 |
| o-xylene | mg/L | 0.001 | 102 | 1.09 | <0.001 |
| Dalapon | mg/L | 0.000001 | 99.8 | 5.32 | <0.000001 |
| Oxamyl (Vydate) | mg/L | 0.002 | 93.8 | 5.66 | <0.002 |
| Simazine | mg/L | 0.007 | 101 | .699 | <0.007 |
| Picloram | mg/L | 0.00007 | 92.0 | 6.15 | <0.00007 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis. Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P O BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Apr16 1991
PO Number: B91053

PO Number
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WATER SAMPLE
Date Received: Mar27 1991 Lab Number : 16557

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16557 |
|---|---|---|---|---|---|
| Dinoseb | mg/L | 0.00001 | 114 | 6.85 | <0.00001 |
| Aldicarb sulfoxide | mg/L | 0.002 | 94.8 | 2.61 | <0.002 |
| Aldicarb sulfone | mg/L | 0.002 | 81.0 | 19.2 | <0.002 |
| Metolachlor | mg/L | 0.0005 | 110 | 11.6 | <0.0005 |
| Carbofuran | mg/L | 0.001 | 99.0 | 2.86 | <0.001 |
| Aldicarb | mg/L | 0.002 | 98.0 | .000 | <0.002 |
| Atrazine | mg/L | 0.002 | 102 | .522 | <0.002 |
| Alachlor (Lasso) | mg/L | 0.0002 | 109 | 4.85 | <0.0002 |
| Heptachlor | mg/L | 0.000005 | 102 | .834 | <0.000005 |
| Aldrin | mg/L | 0.00007 | 110 | .642 | <0.00007 |
| Dieldrin | mg/L | 0.00001 | 97.1 | 8.88 | <0.00001 |
| Dicamba | mg/L | 0.00001 | 93.3 | 6.45 | <0.00001 |
| Chlordane | mg/L | 0.00001 | 101 | 2.39 | <0.00001 |
| Pentachlorophenol | mg/L | 0.005 | 88.7 | 2.07 | <0.005 |
| Hexachlorocyclopenta | mg/L | 0.001 | 90.5 | 11.7 | <0.001 |
| Dioxin | mg/L | 0.00001 | 97.9 | 3.61 | <0.00001 |
| Isophorone | mg/L | 0.001 | 96.2 | 3.47 | <0.001 |
| 2,4-dinitrotoluene | mg/L | 0.001 | 99.9 | 6.20 | <0.001 |
| Dimethylphthalate | mg/L | 0.001 | 98.7 | 3.64 | <0.001 |
| Diethylphthalate | mg/L | 0.001 | 102 | 4.04 | <0.001 |
| Di-n-butylphthalate | mg/L | 0.001 | 92.4 | 5.8 | <0.001 |
| Butyl benzyl phthala | mg/L | 0.001 | 94.9 | 6.27 | <0.001 |
| Bis(2-ethylhexyl)pht | mg/L | 0.001 | 98 | 4.43 | <0.001 |
| 1,2,4-trichlorobenze | mg/L | 0.001 | 98.3 | 4.44 | <0.001 |
| PCB_1016 | mg/L | 0.0001 | 96.7 | 1.32 | <0.0001 |
| PCB_1221 | mg/L | 0.0001 | 96.3 | 1.91 | <0.0001 |

Data Release Authorization

Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P O BOX 550-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS 407 339-4986

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Apr16 1991
PO Number: B91053

PO Number
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WATER SAMPLE
Date Received: Mar27 1991 Lab Number : 16557

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16557 |
|---|---|---|---|---|---|
| PCB_1232 | mg/L | 0.0001 | 104 | .408 | <0.0001 |
| PCB_1242 | mg/L | 0.0001 | 105 | 2.02 | <0.0001 |
| PCB_1248 | mg/L | 0.0001 | 99.4 | 3.41 | <0.0001 |
| PCB_1254 | mg/L | 0.0001 | 96.7 | 1.90 | <0.0001 |
| PCB_1260 | mg/L | 0.0001 | 103 | 3.15 | <0.0001 |
| Dioctylphthalate | mg/L | 0.001 | 99 | 1.21 | <0.001 |
| 2-chlorophenol | mg/L | 0.001 | 95.7 | 1.45 | <0.001 |
| 2-methyl-4,6-dinitop | mg/L | 0.001 | 103 | 1.95 | <0.001 |
| Phenol | mg/L | 0.001 | 98.6 | 3.79 | <0.001 |
| 2,4,6-trichloropheno | mg/L | 0.001 | 99.7 | 2.82 | <0.001 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



Jefferson L. Flowers, Ph.D
Jefferson S. Flowers, Ph.D
451 NEWBURYPORT
P.O. BOX 150-5
ALTAMONTE SPRINGS
FLORIDA 32715-0
BUS (407) 339-

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 3351205
Public Water System Name Seycrest
Public Water System Type (check one):
(X)Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyzed: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable_X_; Unregulated Organic Pesticide_X_;
Unregulated Base Neutral Extractable_X_;Unregulated Acid Extractable__X_;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number 16557
Sample Location (be specific): _____
Sample Type (check all applicable):
( )Check ( )Regular Distribution (X)Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
(X)Raw (X)Well ( )Resample
( )Special_____
Sampler Name, Title Phone:_____
_____

**ANALYSIS INFORMATION**
Extraction Date 4/5/91
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTED Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature: _____

Name Dr. Jefferson S Flowers

Title Technical Director

Laboratory Flowers Chemical Laboratories,Inc.

Date 4/15/91

Mail Results to the
Appropnate DER or ACPHU Office:
_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 06/01/8 () Satisfactory () Unsatisfactory

## Volatile Organic Analysis
17-550.310(2)(d)
(PWS029)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 16557 | .00002 | <.000005 | EPA504.1 | .000005 | 4/12/91 |
| 2969 | Para-dichlorobenzene | 16557 | .075 | <0.001 | EPA502.2 | 0.001 | 4/5/91 |
| 2976 | Vinyl chloride | 16557 | 0.001 | <0.001 | EPA502.2 | 0.001 | 4/5/91 |
| 2977 | 1,1-dichloroethene | 16557 | 0.007 | <0.001 | EPA502.2 | 0.001 | 4/5/91 |
| 2980 | 1,2-dichloroethane | 16557 | 0.003 | <0.001 | EPA502.2 | 0.001 | 4/5/91 |
| 2981 | 1,1,1-trichloroethane | 16557 | 0.2 | <0.001 | EPA502.2 | 0.001 | 4/5/91 |
| 2982 | Carbon tetrachloride | 16557 | 0.003 | <0.001 | EPA502.2 | 0.001 | 4/5/91 |
| 2984 | Trichloroethene | 16557 | 0.003 | <0.001 | EPA502.2 | 0.001 | 4/5/91 |
| 2987 | Tetrachloroethene | 16557 | 0.003 | <0.001 | EPA502.2 | 0.001 | 4/5/91 |
| 2990 | Benzene | 16557 | 0.001 | <0.001 | EPA502.2 | 0.001 | 4/5/91 |

Comments:

## Unregulated Organic Purgeable Analysis
17-550.410(1)
(PWS034)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2210 | Chloromethane | 16557 | | <0.001 | EPA502.2 | 0.001 | 4/5/91 |
| 2212 | Dichlorodifluoromethan | 16557 | | <0.001 | EPA502.2 | 0.001 | 4/5/91 |
| 2214 | Bromomethane | 16557 | | <0.001 | EPA502.2 | 0.001 | 4/5/91 |
| 2216 | Chloroethane | 16557 | | <0.001 | EPA502.2 | 0.001 | 4/5/91 |
| 2218 | Trichlorofluoromethane | 16557 | | <0.001 | EPA502.2 | 0.001 | 4/5/91 |
| 2224 | trans-1,3,-dichloroprop | 16557 | | <0.001 | EPA502.2 | 0.001 | 4/5/91 |
| 2228 | cis-1,3-dichloropropene | 16557 | | <0.001 | EPA502.2 | 0.001 | 4/5/91 |
| 2251 | Methyl-tert-butylether | 16557 | | <0.001 | EPA502.2 | 0.001 | 4/5/91 |
| 2380 | cis-1,2-dichloroethene | 16557 | | <0.001 | EPA502.2 | 0.001 | 4/5/91 |
| 2408 | Dibromomethane | 16557 | | <0.001 | EPA502.2 | 0.001 | 4/5/91 |
| 2410 | 1,1-dichloropropene | 16557 | | <0.001 | EPA502.2 | 0.001 | 4/5/91 |
| 2412 | 1,3-dichloropropane | 16557 | | <0.001 | EPA502.2 | 0.001 | 4/5/91 |
| 2414 | 1,2,3-trichloropropane | 16557 | | <0.001 | EPA502.2 | 0.001 | 4/5/91 |
| 2416 | 2,2-dichloropropane | 16557 | | <0.001 | EPA502.2 | 0.001 | 4/5/91 |
| 2931 | 1,2-dibromo-3-chloropr | 16557 | | <0.001 | EPA502.2 | 0.001 | 4/5/91 |
| 2941 | Chloroform | 16557 | | <0.001 | EPA502.2 | 0.001 | 4/5/91 |
| 2942 | Bromoform | 16557 | | <0.001 | EPA502.2 | 0.001 | 4/5/91 |
| 2943 | Bromodichloromethane | 16557 | | <0.001 | EPA502.2 | 0.001 | 4/5/91 |
| 2944 | Dibromochloromethane | 16557 | | <0.001 | EPA502.2 | 0.001 | 4/5/91 |
| 2962 | p-xylene | 16557 | | <0.001 | EPA502.2 | 0.001 | 4/5/91 |
| 2964 | Methylene chloride | 16557 | | <0.001 | EPA502.2 | 0.001 | 4/5/91 |
| 2965 | o-chlorotoluene | 16557 | | <0.001 | EPA502.2 | 0.001 | 4/5/91 |
| 2966 | p-chlorotoluene | 16557 | | <0.001 | EPA502.2 | 0.001 | 4/5/91 |
| 2967 | m-dichlorobenzene | 16557 | | <0.001 | EPA502.2 | 0.001 | 4/5/91 |
| 2968 | o-dichlorobenzene | 16557 | | <0.001 | EPA502.2 | 0.001 | 4/5/91 |
| 2978 | 1,1-dichloroethane | 16557 | | <0.001 | EPA502.2 | 0.001 | 4/5/91 |
| 2979 | trans-1,2-dichloroethyl | 16557 | | <0.001 | EPA502.2 | 0.001 | 4/5/91 |
| 2983 | 1,2-dichloropropane | 16557 | | <0.001 | EPA502.2 | 0.001 | 4/5/91 |
| 2985 | 1,1,2-trichloroethane | 16557 | | <0.001 | EPA502.2 | 0.001 | 4/5/91 |
| 2986 | 1,1,1,2-tetrachloroetha | 16557 | | <0.001 | EPA502.2 | 0.001 | 4/5/91 |
| 2988 | 1,1,2,2-tetrachloroetha | 16557 | | <0.001 | EPA502.2 | 0.001 | 4/5/91 |
| 2989 | Chlorobenzene | 16557 | | <0.001 | EPA502.2 | 0.001 | 4/5/91 |

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2991 | Toluene | 16557 | | <0.001 | EPA502.2 | 0.001 | 4/5/91 |
| 2992 | Ethylbenzene | 16557 | | <0.001 | EPA502.2 | 0.001 | 4/5/91 |
| 2993 | Bromobenzene | 16557 | | <0.001 | EPA502.2 | 0.001 | 4/5/91 |
| 2995 | m-xylene | 16557 | | <0.001 | EPA502.2 | 0.001 | 4/5/91 |
| 2996 | Styrene | 16557 | | <0.001 | EPA502.2 | 0.001 | 4/5/91 |
| 2997 | o-xylene | 16557 | | <0.001 | EPA502.2 | 0.001 | 4/5/91 |

Comments:

Unregulated Organic Pesticide Analysis
17-550.410(2)
(PWS035)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2031 | Dalapon | 16557 | | <.000001 | EPA515 | .000001 | 4/12/91 |
| 2036 | Oxamyl (Vydate) | 16557 | | <0.002 | EPA531 | 0.002 | 4/8/91 |
| 2037 | Simazine | 16557 | | <0.007 | EPA505 | 0.007 | 4/12/91 |
| 2040 | Picloram | 16557 | | <0.00007 | EPA515 | 0.00007 | 4/12/91 |
| 2041 | Dinoseb | 16557 | | <0.00001 | EPA515 | 0.00001 | 4/12/91 |
| 2043 | Aldicarb sulfoxide | 16557 | | <0.002 | EPA531 | 0.002 | 4/8/91 |
| 2044 | Aldicarb sulfone | 16557 | | <0.002 | EPA531 | 0.002 | 4/8/91 |
| 2045 | Metolachlor | 16557 | | <0.0005 | EPA505 | 0.0005 | 4/12/91 |
| 2046 | Carbofuran | 16557 | | <0.001 | EPA531 | 0.001 | 4/8/91 |
| 2047 | Aldicarb | 16557 | | <0.002 | EPA531 | 0.002 | 4/8/91 |
| 2050 | Atrazine | 16557 | | <0.002 | EPA505 | 0.002 | 4/12/91 |
| 2051 | Alachlor (Lasso) | 16557 | | <0.0002 | EPA505 | 0.0002 | 4/12/91 |
| 2065 | Heptachlor | 16557 | | <.000005 | EPA508 | .000005 | 4/5/91 |
| 2356 | Aldrin | 16557 | | <0.00007 | EPA508 | 0.00007 | 4/5/91 |
| 2364 | Dieldrin | 16557 | | <0.00001 | EPA508 | 0.00001 | 4/5/91 |
| 2440 | Dicamba | 16557 | | <0.00001 | EPA515 | 0.00001 | 4/12/91 |
| 2959 | Chlordane | 16557 | | <0.00001 | EPA508 | 0.00001 | 4/5/91 |
| 9114 | Pentachlorophenol | 16557 | | <0.005 | EPA515 | 0.005 | 4/10/91 |

Comments:

Unregulated Base Neutral Extractable Analysis
17-550.410(3)
(PWS036)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2042 | Hexachlorocyclopentadie | 16557 | | <0.001 | EPA508 | 0.001 | 4/12/91 |
| 2063 | Dioxin | 16557 | | <0.00001 | EPA613 | 0.00001 | 4/5/91 |
| 2262 | Isophorone | 16557 | | <0.001 | EPA609 | 0.001 | 4/10/91 |
| 2270 | 2,4-dinitrotoluene | 16557 | | <0.001 | EPA609 | 0.001 | 4/10/91 |
| 2282 | Dimethylphthalate | 16557 | | <0.001 | EPA606 | 0.001 | 4/10/91 |
| 2284 | Diethylphthalate | 16557 | | <0.001 | EPA606 | 0.001 | 4/10/91 |
| 2290 | Di-n-butylphthalate | 16557 | | <0.001 | EPA606 | 0.001 | 4/10/91 |
| 2294 | Butyl benzyl phthalate | 16557 | | <0.001 | EPA606 | 0.001 | 4/10/91 |
| 2298 | Bis(2-ethylhexyl)phthal | 16557 | | <0.001 | EPA606 | 0.001 | 4/10/91 |
| 2378 | 1,2,4-trichlorobenzene | 16557 | | <0.001 | EPA612 | 0.001 | 4/10/91 |
| 2388 | PCB 1016 | 16557 | | <0.0001 | EPA505 | 0.0001 | 4/5/91 |
| 2390 | PCB 1221 | 16557 | | <0.0001 | EPA505 | 0.0001 | 4/5/91 |
| 2392 | PCB 1232 | 16557 | | <0.0001 | EPA505 | 0.0001 | 4/5/91 |
| 2394 | PCB 1242 | 16557 | | <0.0001 | EPA505 | 0.0001 | 4/5/91 |
| 2396 | PCB 1248 | 16557 | | <0.0001 | EPA505 | 0.0001 | 4/5/91 |
| 2398 | PCB 1254 | 16557 | | <0.0001 | EPA505 | 0.0001 | 4/5/91 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 2400 | PCB 1260 | 16557 | | <0.0001 | EPA505 | 0.0001 | 4/5/91 |
| 9089 | Dioctylphthalate | 16557 | | <0.001 | EPA606 | 0.001 | 4/10/91 |

Comments:

Unregulated Acid Extractable Analysis
17-550.410(4)
(PWS037)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 9108 | 2-chlorophenol | 16557 | | <0.001 | EPA604 | 0.001 | 4/10/91 |
| 9112 | 2-methyl-4,6-dinitophe | 16557 | | <0.001 | EPA604 | 0.001 | 4/10/91 |
| 9115 | Phenol | 16557 | | <0.001 | EPA604 | 0.001 | 4/10/91 |
| 9116 | 2,4,6-trichlorophenol | 16557 | | <0.001 | EPA604 | 0.001 | 4/10/91 |

Comments:

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

ANALYTICAL & CONSULTING CHEMISTS

# CHAIN OF CUSTODY RECORD

CLIENT: SSU | ADDRESS: | PHONE:

PROJECT NAME: B91053 | REQUIRED: ☐ Urgent ☒ Routine | DATE:

| Sample Containers QTY | Preservative: HNO3 | H2SO4 | HCl | Na2S2O3 | Zn(C2H3O2)/NaOH | NaOH/AscAcid | Plastic Containers: 60mL | 125mL | 250mL | 500mL | 1L | 2L | Whirl-Pak Bag | Glass Containers: 40mL Vial | 250mL | 500mL | 1L | 2L | 4L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | | | | X |
| 10 | | | | | | | | | | | | | | X | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |

NOTES: 5 wells 1 Sample; No AIR Bubbles

Kit Relinquished: | Date: Time: | Kit Received: | Date: Time:

Parameters: Rad Uncs

Laboratory Number | Client Identification/Description: RAW WATER

16557

- Raw tanks — Well 1 — 2 vials per well
- Gravity trans — Well 1
- Imperial trans — Well 1
- Skycrest — Well 1; Well 2

| | | Date | Time |
|---|---|---|---|
| Sample Collection: | Lance Arnolli | 3-27-91 | |
| Transportation: | Lance Arnolli | 3-27-91 | 15:15 |
| Lab Acceptance: | | 3/27/91 | 3:16 |

Page _____ of _____

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.

48[illegible] NEWBURYPORT
P.O. BOX [illegible]-597
[illegible]MONTE SPRINGS
[illegible]

Fern Terrace

Temp. 75°
Cond 400
pH 7.5
DO 3.9
Cl2 1.0

Skycrest

Temp 78°
Cond 444
pH 7.1
DO 3.1
Cl2 1.0

Grand Terrace

Temp 72°
Cond 429
pH 7.0
DO 3.0
Cl2 1.0

Imperial Terrace

Temp 73°
Cond 310
pH 7.5
DO 3.0
Cl2 1.2

SSU SERVICES

**General Offices**
1000 Color Place
Apopka, FL 32703
(407) 880-0058

July 15, 1991

Ms. Marie Carrasquillo
State of Florida
Department of Environmental Regulation
3319 Maguire Boulevard
Suite 232
Orlando, Florida 32803-3767

Re: Lake County - PW
- Skycrest PWS ID #3351205
Western Shores PWS ID #3351464
Silver Lakes PWS ID #3351182

Dear Ms. Carrasquillo,

Enclosed please find results for Volatile Organic Analysis second quarter for the above referenced facilities.

Please enter this information into your records.

Sincerely,

SSU Services

Donald B. Corder
Division Supervisor

DBC/jim

cc: Charles Sweat
Clara Dozier
File

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
Southern States
1000 Color Pl.
Apopka,FL 32703

Date Reported: Jul 2 1991
PO Number: 891051
PO Number SSU
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WATER SAMPLE
Date Received: Jun26 1991 Lab Number : 17230

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 17230 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 99.0 | 2.74 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 96.4 | 1.07 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 96.7 | .218 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 96.7 | .218 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 95.5 | .595 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 91.6 | 3.11 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 93.5 | 3.44 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 92.2 | .300 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 101 | .721 | <0.001 |
| Benzene | mg/L | 0.001 | 96.4 | 1.08 | <0.001 |

Data Release Authorization

Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



Jefferson L. Flowers, Ph.D
Jefferson S. Flowers, Ph.D
481 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS 407 339-5984
FAX 407 260-[illegible]

Volatile Organic Analysis
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 17230 | .00002 | <.000005 | EPA504.1 | .000005 | 6/27/91 |
| 2969 | Para-dichlorobenzene | 17230 | .075 | <0.001 | EPA502.2 | 0.001 | 6/29/91 |
| 2976 | Vinyl chloride | 17230 | 0.001 | <0.001 | EPA502.2 | 0.001 | 6/29/91 |
| 2977 | 1,1-dichloroethene | 17230 | 0.007 | <0.001 | EPA502.2 | 0.001 | 6/29/91 |
| 2980 | 1,2-dichloroethane | 17230 | 0.003 | <0.001 | EPA502.2 | 0.001 | 6/29/91 |
| 2981 | 1,1,1-trichloroethane | 17230 | 0.2 | <0.001 | EPA502.2 | 0.001 | 6/29/91 |
| 2982 | Carbon tetrachloride | 17230 | 0.003 | <0.001 | EPA502.2 | 0.001 | 6/29/91 |
| 2984 | Trichloroethene | 17230 | 0.003 | <0.001 | EPA502.2 | 0.001 | 6/29/91 |
| 2987 | Tetrachloroethene | 17230 | 0.003 | <0.001 | EPA502.2 | 0.001 | 6/29/91 |
| 2990 | Benzene | 17230 | 0.001 | <0.001 | EPA502.2 | 0.001 | 6/29/91 |

Comments:

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 3351205
Public Water System Name Skycrest
Public Water System Type (check one):
(X)Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyzi Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number 17230
Sample Location (be specific): #2 Well
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
(X)Raw (X)Well ( )Resampl
( )Special_____
Sampler Name, Title Phone: Dennis Mono
_____

**ANALYSIS INFORMATION**
Extraction Date ___/___/___
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTEI Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature:

Name Dr. Jefferson S Flowers

Title Technical Director

Laboratory Flowers Chemical Laboratories,Inc.

Date 7/1/91

Mail Results to the
Appropnate DER or ACPHU Office:
_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 06/01/8 () Satisfactory () Unsatisfactory

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

ANALYTICAL & CONSULTING CHEMISTS

# CHAIN OF CUSTODY RECORD

ATTN: DAN CORDER

| CLIENT | ADDRESS | PHONE |
|---|---|---|
| SOUTHERN STATES UTIL. | 1000 COLOR PLACE APOPKA, FL. 32703 | 880-0058 |

PROJECT NAME: W. SITES / SEWER LS / SYSTEMS — PO: 39105 — REQUIRED: ☐ Urgent ☐ Routine — DATE

| Sample Containers QTY | Preservative: HNO3 | H2SO4 | HCl | Na2S2O3 | Zn(C2H3O2)/NaOH | NaOH/AscAcid | | Plastic Containers: 60mL | 125mL | 250mL | 500mL | 1L | 2L | Whirl-Pak Bag | | Glass Containers: 40mL Vial | 250mL | 500mL | 1L | 2L | 4L | | NOTES: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15 | | | | | | | | | | | | | | | | X | | | | | | | 5 WELLS PLEASE COMPOSITE 2ND QTR. VOA'S. $75.00 PER LAB SITE |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |

| Kit Relinquished: | Date / Time: | Kit Received: | Date: / Time: |
|---|---|---|---|
| | | | |

Parameters: VOA's (DRINKING WATER)

| Laboratory Number | Client Identification/Description |
|---|---|
| 17230 | |

| | | Date | Time |
|---|---|---|---|
| Sample Collection | [illegible] | 6-26-91 | |
| Transportation | [illegible] | | |
| Lab Acceptance | [signature] | 6/26/91 | 3:20 |

Page ____ of ____

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.

631 NEWBURYPORT
P.O. BOX 160187
ALTAMONTE SPRINGS
ELECTRIC [illegible]

SSU SERVICES

**General Offices**
1000 Color Place
Apopka, FL 32703
(407) 880-0058

October 7, 1991

Ms. Marie Carrasquillo
State of Florida
Department of Environmental Regulation
3319 Maguire Boulevard
Suite 232
Orlando, Florida 32803-3767

Re: Lake County PW
Western Shores PWS ID #3351464
Silver Lakes PWS ID E3351182
Skycrest PWS ID #3351205

Dear Ms. Carrasquillo,

Enclosed please find results for Volatile Organic Analysis third quarter for the above referenced facilities.

Please enter this informaiton into your records.

Sincerely,

SSU Services

Donald B. Corder

Don Corder
Area Supervisor

DC/jlm

cc: Charles Sweat
Frank Sanderson
Mel Fisher
Clara Dozier
Osceola County
File

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Oct 2 1991
PO Number: B91051

PO Number SSU
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: COMP. SAMPLE
Date Received: Sep27 1991 Lab Number : 17868

REPORT OF ANALYSIS

Skycrest #2 well

17868

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 99.9 | .820 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 89.8 | 4.86 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 106 | .487 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 106 | .487 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 95.9 | .420 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 101 | .204 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 104 | 1.38 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 97.5 | .508 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 98.0 | 1.24 | <0.001 |
| Benzene | mg/L | 0.001 | 97.4 | .710 | <0.001 |

Data Release Authorization

Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P.O. BOX 150-597
ADAMONTE SPRINGS
FLORIDA 32715-0597
BUS 407 339-5984
FAX 407 150-0117

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 3351205
Public Water System Name Skycrest
Public Water System Type (check one):
(X)Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyzi Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable___;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number 17668
Sample Location (be specific): Plant Side — 1-Well (#2)
Sample Type (check all applicable):
( )Check ( )Regular Distribution (X)Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
(X)Raw (X)Well ( )Resampl
( )Special
Sampler Name, Title Phone: Brian Heath - Field Operator
880-0057

**ANALYSIS INFORMATION**
Extraction Date 9/30/91
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTEI Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable___;

I do HEREBY CERTIFY that all data submitted are correct.

Signature:

Name Dr Jefferson S Flowers

Title Technical Director

Laboratory Flowers Chemical Laboratories,Inc.

Date 10/1/91

Mail Results to the Appropriate DER or ACPHU Office:

DER ACPHU Reviewing Official

PWSA 2' Sample Interpretation (check one)
Effective 08/01 (X) Satisfactory ( ) Unsatisfactory

Volatile Organic Analysis
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 17868 | .00002 | <.000005 | EPA504.1 | .000005 | 9/30/91 |
| 2969 | Para-dichlorobenzene | 17868 | .075 | <0.001 | EPA502.2 | 0.001 | 9/30/91 |
| 2976 | Vinyl chloride | 17868 | 0.001 | <0.001 | EPA502.2 | 0.001 | 9/30/91 |
| 2977 | 1,1-dichloroethene | 17868 | 0.007 | <0.001 | EPA502.2 | 0.001 | 9/30/91 |
| 2980 | 1,2-dichloroethane | 17868 | 0.003 | <0.001 | EPA502.2 | 0.001 | 9/30/91 |
| 2981 | 1,1,1-trichloroethane | 17868 | 0.2 | <0.001 | EPA502.2 | 0.001 | 9/30/91 |
| 2982 | Carbon tetrachloride | 17868 | 0.003 | <0.001 | EPA502.2 | 0.001 | 9/30/91 |
| 2984 | Trichloroethene | 17868 | 0.003 | <0.001 | EPA502.2 | 0.001 | 9/30/91 |
| 2987 | Tetrachloroethene | 17868 | 0.003 | <0.001 | EPA502.2 | 0.001 | 9/30/91 |
| 2990 | Benzene | 17868 | 0.001 | <0.001 | EPA502.2 | 0.001 | 9/30/91 |

Comments:

FLOWERS

CHEMICAL LABORATORIES

ANALYTICAL & CONSULTING CHEMISTS
CHAIN OF CUSTODY RECORD
DRINKING WATER 17-550

ATTN: Dan CoTNER

| (1)Client | (2)Address | (3)Phone |
|---|---|---|
| SSU | 1000 COLOR PLACE APOPKA, FL. 32703 | 880-0058 |

| (4)Public Drinking Water ID # | (5)Public Water System Name: |
|---|---|
| (6)Project # MPOs B-91051 | (8)Public Water System Type (X) Community ( ) Non-Community ( ) Special Non-Community |

| | Preservative | | Plastic Containers | | | | | | Glass Containers | | | | | NOTE: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | HNO3 | ZnAc/NaOH | 60ml | 125ml | 250ml | 500ml | 1L | Whirl Pac Bag | 40ml | 250ml | 500ml | 1L | 2L | 4L |
| (16) 15 | | | | | | | | | X | | | | | |

(12)Turn Around Time:
10 Working Days: ____
5 Working Days : ____
3 Working Days : ____
1 Working Day : ____
Other : ____

5 wells total, to be composited at lab to 1-sample.
#1 Western Shores - 2 wells
#3 Silver Lakes - 2 wells
#5 Sky Crest - 1 well

| (17)Kit Relinquished: | (17)Date | (17)Time | (9)Kit Received | (9)Date | (9)Time |
|---|---|---|---|---|---|
| | | | | | |

(10)Parameter Group(s) Analysed: Turbidity__; Inorganic__; Trihalomethane__; Volatile Organic X;
Organic Chemical__; Secondary Chemical__; Radiological__; Unregulated Organic Purgeable__;
Unregulated Organic Pesticide · Unregulated Base Neutral Extractable · Unregulated Acid Extractable

| (18)Laboratory Number | (11)Client Sample Identification | |
|---|---|---|
| 17868 | #1 | |
| | #2 | |
| | #3 | |
| | #4 | |
| | #5 | |
| | #6 | |
| | #7 | |
| | #8 | |
| | #9 | |
| | #10 | |

| | | Date | Time |
|---|---|---|---|
| (13)Collectors Signature: | Brian Heath | 9/26/91 | |
| (14)Transporters Signature: | | 9/27/91 | |
| (15)Lab Acceptance By: | | 9/27/91 | 1010 |

Over for numbered instructions.

SSU SERVICES

**General Offices**
1000 Color Place
Apopka, FL 32703
(407) 880-0058

January 9, 1992

Ms. Marie Carrasquillo
State of Florida
Department of Environmental Regulation
3319 Maguire Boulevard
Suite 232
Orlando, Florida 32803

Re: Lake County - PW
Silver Lakes - PWS ID#3351182
Western Shores - PWS ID#3351464
Skycrest - PWS ID#3351205

Dear Ms. Carrasquillo:

Enclosed please find results for Volatile Organic Analysis Fourth Quarter for the above referenced facilities.

Please enter this information into your records.

Sincerely,

Donald B. Corder

Donald B. Corder
Area Supervisor

DBC/ag
Enclosures

c: Jim Ragsdale
Frank Sanderson
Ralph Terrero
Clara Dozier
File

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU
1000 Color Place
Apopka, FL 32703

Date Reported: Jan 2 1992
PO Number: B 9105/
PO Number Sky Crest#551
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WELL#2
Date Received: Dec23 1991 Lab Number : 18575

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 18575 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 95.6 | 1.20 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 103 | 1.18 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 107 | 5.05 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 107 | 5.05 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 111 | 5.99 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 112 | 6.36 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 111 | 8.10 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 112 | 6.46 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 107 | 1.19 | <0.001 |
| Benzene | mg/L | 0.001 | 100 | .866 | <0.001 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director

Page 1 of 1

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P. O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS: (407) 339-6984
FAX: (407) 260-6110

## PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 3351205
Public Water System Name: SEYGROSS
Public Water System Type (check one):
(X)Community ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyzed: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___: Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number: 18575
Sample Location (be specific): Plant #2 Well
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composite
( )Clearance ( )Maximum Residence Time ( )Plant Tap
(X)Raw (X)Well ( )Resample
( )Special
Sampler Name, Title Phone: John Hawersaat - Maint. - 880-0058

**ANALYSIS INFORMATION**
Extraction Date ___/___/____
Laboratory Contact Dr. J.S. Flowers
Resample Requested? (check one): ()Yes (X) No
ANALYSIS SUBMITTED: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___: Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature:

Name Dr Jefferson S Flowers

Title Technical Director

Laboratory Flowers Chemical Laboratories,Inc.

Date 1/2/92

Mail Results to the Appropriate DER or ACPHU Office:

DER /ACPHU Reviewing Offical:

PWSA.01
Effective 06/01/89

Sample Interpretation (check one):
() Satisfactory () Unsatisfactory

Volatile Organic Analysis
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 18575 | .00002 | <.000005 | EPA504.1 | .000005 | 12/31/91 |
| 2969 | Para-dichlorobenzene | 18575 | .075 | <0.001 | EPA502.2 | 0.001 | 12/23/91 |
| 2976 | Vinyl chloride | 18575 | 0.001 | <0.001 | EPA502.2 | 0.001 | 12/23/91 |
| 2977 | 1,1-dichloroethene | 18575 | 0.007 | <0.001 | EPA502.2 | 0.001 | 12/23/91 |
| 2980 | 1,2-dichloroethane | 18575 | 0.003 | <0.001 | EPA502.2 | 0.001 | 12/23/91 |
| 2981 | 1,1,1-trichloroethane | 18575 | 0.2 | <0.001 | EPA502.2 | 0.001 | 12/23/91 |
| 2982 | Carbon tetrachloride | 18575 | 0.003 | <0.001 | EPA502.2 | 0.001 | 12/23/91 |
| 2984 | Trichloroethene | 18575 | 0.003 | <0.001 | EPA502.2 | 0.001 | 12/23/91 |
| 2987 | Tetrachloroethene | 18575 | 0.003 | <0.001 | EPA502.2 | 0.001 | 12/23/91 |
| 2990 | Benzene | 18575 | 0.001 | <0.001 | EPA502.2 | 0.001 | 12/23/91 |

Comments:

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

P.O. #

**ANALYTICAL & CONSULTING CHEMISTS**
**CHAIN OF CUSTODY RECORD**

| CLIENT | ADDRESS | PHONE |
|---|---|---|
| SSI Services | 1000 color place Apopka | 800-453-7202 |

| PROJECT NAME: SkyCrest #551 | REQUIRED: ☐ Urgent ☒ Routine | DATE 12-23-91 |
|---|---|---|

| Sample Containers QTY | Preservative | | | | | | | Plastic Containers | | | | | | | Glass Containers | | | | | | | NOTES: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | HNO3 | H2SO4 | HCl | Na2S2O3 | Zn(C2H3O2)/NaOH | NaOH/AscAcid | | 60mL | 125mL | 250mL | 500mL | 1L | 2L | Whirl-Pak Bag | 40mL Vial | 250mL | 500mL | 1L | 2L | 4L | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |

| Kit Relinquished: | Date: Time: | Kit Received: | Date: Time: |
|---|---|---|---|
| | | | |

Parameters: VOC's.

| Laboratory Number | Client Identification/Description |
|---|---|
| 18575 | Well #2 |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

| | | Date | Time |
|---|---|---|---|
| Sample Collection: | John D. Rowe | 12-23-91 | 10:30 |
| Transportation: | John D. Rowe | 12-23-91 | 3:30 |
| Lab Acceptance: | M. McCoy | 12.23.91 | 3:30 p.m. |

Page 1 of 1

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.

461 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
(407) 339-5958

HRS

State of Florida
Department of Health and Rehabilitative Services
Office of Laboratory Services
P.O. Box 210
Jacksonville, Florida 32231

T.O. No: 32703
LAB USE ONLY
REC'D ORL
DEC 12 1 18 PM '91
BY:
12/13

# DRINKING WATER
# BACTERIOLOGICAL ANALYSIS

SYSTEM NAME: Sky Crest #551 SYSTEM I.D. NO: 3351205 SYSTEM PHONE #: 800-432-4501

ADDRESS: Sky Crest Rd. COUNTY: Lake Co. DER DISTRICT: Central

COLLECTOR: John Havercost COLLECTOR PHONE #: 800-432-4501

SAMPLE SITE (Locality or Subdivision): Sky Crest

DATE AND TIME COLLECTED: 12-12-91 11:00 am

TYPE OF SUPPLY(Circle one): (Community water system) Noncommunity water system Nontransient - noncommunity water system
Private well Swimming pool Bottled water Other public water system

TYPE OF SAMPLE(Circle one): (Compliance) Repeat Replacement Main clearance Well survey Other _____ (Specify)
(Check Box)
[ ] Distribution
[ ] TNTC or
[ ] Turbid
[ ]

REMARKS:

| TO BE COMPLETED BY COLLECTOR OF SAMPLE | | | | TO BE COMPLETED BY LAB | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | ANALYSIS METHOD: | MF | MTF | MMO-MUG | PA |
| COLL. NO. | SAMPLE POINT (Specific Address) | Cl RES'D | pH | SAMPLE NUMBER | NON COLIFORM | *TOTAL | CONFIRM TOTAL | CONFIRM FECAL |
| W-1 | Well #1 | 0.0 | | 053803 | | A | | |
| W-2 | Well #2 | 0.0 | | 053804 | | A | | |
| T | Tank | 1.2 | | 053805 | | A | | |
| R-1 | 36940 Shadowhill | 0.8 | | 053806 | | A | | |
| R-2 | 36803 Skycrest | 1.0 | | 053807 | | A | | |
| | | | | | | | | |
| | | | | | | | | |

* Results in this colum are preliminary. Fecal coliform confirmation on community and noncommunity water systems and total coliform confirmation on all types of water systems will follow in 24-48 hours.

P - Coliforms are present C - Confluent growth TA - Turbid, Absence of gas or acid
A - Coliforms are absent TNTC - Too numerous to count

INTERPRETATIONS-REMARKS BY PROGRAM REVIEWER

HRS Form 666, Jan 91 (Obsolete previous editions which may not be used) (Stock Number: 3760-000-0666-1)

NAME AND MAILING ADDRESS OF PERSON/FIRM TO RECEIVE REPORT

SSU Services
1000 Color Place
Apopka, Fla.
32703

( )
(X) SATISFACTORY
( ) INCOMPLETE COLLECTION INFORMATION
( ) REPEAT SAMPLES
( ) REPLACEMENT SAMPLES

REVIEWING OFFICIAL: JR

TITLE: DER

# Spring Hill Utilities - 27001

**Hernando County (DUI)**

**Water**

## - 1992 FPSC Filing -

# Spring Hill

## Chemical Analyses

The most recent chemical analyses for the water system conducted by a certified laboratory covering the inorganic, organic, turbidity, microbiological, radionuclide, secondary and unregulated contaminants.

| Chemical Analysis | Date Taken |
|---|---|
| Inorganic | 2/90 |
| Organic | 2/90 |
| Volatile Organic Chemicals | 2/91 |
| | 5/91 |
| | 8/91 |
| | 12/91 |
| Turbidity | 2/90 |
| Microbiological | 12/91 |
| Radionuclide | 2/90 |
| Secondary Contaminants | 2/90 |
| Unregulated Contaminants | 2/90 |

# ORLANDO LABORATORIES INC

P.O. Box 149127 • Orlando, Florida 32814 • (407) 898-6645

REPORT OF ANALYSIS

Spring Hill Utilities
9500 Eldridge Road
Spring Hill, FL 34608

Attn: Rick Leach

Work Order # : 90-02-118
Date Received: 02/08/90
Date Reported: 03/01/90
OLI Contact: E_HOBBS

Work ID: 6271696 Unit 25 Carter
Total Samples: 2

Sampling information is based on data supplied by Rick Leach

| SAMPLE IDENTIFICATION | TEST CODES and NAMES used on this report |
|---|---|
| 01 Unit 25 | 501R 17-550 Trihalomethanes |
| 02 Method Blank | 504R 17-550 "EDB" Analysis |
| | 504U 17-550 "DBCP" Analysis |
| | 524R DER 17-550 Regulated VOA's |
| | 524U DER 17-550 Unregulated VOA |
| | 531U DER 17-550 Unreg Pest 531s |
| | 608R DER 17-550 Reg. Pest 608s |
| | 608U DER 17-550 Unreg Pest 608s |
| | 615R DER 17-550 Reg. Herb 615 |
| | 615U DER 17-550 Unreg Pest 515s |
| | 622U DER 17-550 Unreg Pest 622s |
| | 625U DER 17-550 Unreg BNAs/Pest |
| | DERBCT 17-550 Total Coliform Bact |
| | DERPDM 17-550 Primary Metals Only |
| | DERPDW 17-550 Primary WetChem |
| | DERSDM DER 17-5 Secondary Metals |
| | DERSDW DER 17-5 Secondary Wet Chm |
| | DERTRB 17-550 Turbidity Analysis |
| | DER_GA Gross Alpha (water)17-550 |

Total Coliform: Set date 02/08/90 at 1500 hours
Read date 02/09/90 at 1500 hours

OLI Florida Department of Health & Rehabilitative Service Identification Numbers are:
Drinking Water Certification Number 83141, Environmental Certification Number E83033

Respectfully Submitted,
ORLANDO LABORATORIES, INC.

Acting
LABORATORY DIRECTOR

Eric Malarek
QUALITY CONTROL

*The Analytical Specialists*

ORLANDO LABORATORIES,INC. REPORT OF ANALYSIS Work Order # 90-02-118
Received: 02/08/90 Results by Sample

SAMPLE ID Unit 25 SAMPLE# 010
DATE COLLECTED 02/07/90 14:45:00 MATRIX WATER
TEST NAME 17-550 Trihalomethanes TEST CODE 501R

SAMPLE TYPE WATER DATE EXTRACTED NA
UNITS ug/l DATE RUN 2/10/90
ANALYST EJP DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-501.2
TRIHALOMETHANE ANALYSIS
17-550.310(2)(C)
(PWS027)

| Parameter ID | Name | Analysis Result | Det. L. |
|---|---|---|---|
| 2950 | TTHM | 1.0 U | 1.0 |

URLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-118

SAMPLE ID Unit 25
DATE COLLECTED 02/07/90 14:45:00
TEST NAME 17-550 "EDB" Analysis

SAMPLE# 01A
MATRIX WATER
TEST CODE 504R

SAMPLE TYPE WATER
UNITS ug/l
ANALYST JAB

DATE EXTRACTED 02/08/90
DATE RUN 02/12/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA 504
VOLATILE ORGANIC ANALYSIS
17-550.310(2)(D)
(PW3028)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2946 | Ethylene dibromide | 0.02 | U | 0.02 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-118

SAMPLE ID Unit 25
DATE COLLECTED 02/07/90 14:45:00
TEST NAME 17-550 "DBCP" Analysis

SAMPLE# 01A
MATRIX WATER
TEST CODE 504U

SAMPLE TYPE WATER
UNITS UG/L
ANALYST JAB

DATE EXTRACTED 02/08/90
DATE RUN 02/12/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-504
UNREGULATED ORGANIC PURGEABLE ANALYSIS
17-550.410(1)
(PW3034)

| Parameter ID | Name | Analysis Result | Det. lt. |
|---|---|---|---|
| 2931 | 1,2-dibromo-3-chloro propane | 0.02 U | 0.02 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02 118

SAMPLE ID Unit 25
DATE COLLECTED 02/07/90 14:45:00
TEST NAME DER 17-550 Regulated VOA's

SAMPLE# 010
MATRIX WATER
TEST CODE 524R

SAMPLE TYPE WATER
UNITS UG/L
ANALYST EJP

DATE EXTRACTED NA
DATE RUN 2/10/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-524
VOLATILE ORGANIC ANALYSIS
17-550.310(2)(d)
(PW3028)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2969 | p-Dichlorobenzene | 0.5 | U | 0.5 |
| 2976 | Vinyl Chloride | 0.5 | U | 0.5 |
| 2977 | 1,1-Dichloroethene | 0.5 | U | 0.5 |
| 2980 | 1,2-Dichloroethane | 0.5 | U | 0.5 |
| 2981 | 1,1,1-Trichloroethane | 0.5 | U | 0.5 |
| 2982 | Carbon Tetrachloride | 0.5 | U | 0.5 |
| 2984 | Trichloroethene | 0.5 | U | 0.5 |
| 2987 | Tetrachloroethene | 0.5 | U | 0.5 |
| 2990 | Benzene | 0.5 | U | 0.5 |

ORLANDO LABORATORIES,INC. REPORT OF ANALYSIS Work Order # 90-02-118
Received: 02/08/90 Results by Sample

SAMPLE ID Unit 25 SAMPLE# 01A
DATE COLLECTED 02/07/90 14:45:00 MATRIX WATER
TEST NAME DER 17-550 Unregulated VOA TEST CODE 524U

SAMPLE TYPE WATER DATE EXTRACTED NA
UNITS UG/L DATE RUN 2/10/90
ANALYST EJP DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-524
UNREGULATED ORGANIC PURGEABLE ANALYSIS
17-550.410(1)
(PWS034)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2210 | Chloromethane | 0.5 | U | 0.5 |
| 2212 | Dichlorodifluoromethane | 0.5 | U | 0.5 |
| 2214 | Bromomethane | 0.5 | U | 0.5 |
| 2216 | Chloroethane | 0.5 | U | 0.5 |
| 2218 | Trichlorofluoromethane | 0.5 | U | 0.5 |
| 2224 | trans-1,3-Dichloro propene | 0.5 | U | 0.5 |
| 2228 | cis-1,3-Dichloropropene | 0.5 | U | 0.5 |
| 2251 | Methyl tert-butyl-ether | 0.5 | U | 0.5 |
| 2380 | cis-1,2-Dichloroethene | 0.5 | U | 0.5 |
| 2408 | Dibromomethane | 0.5 | U | 0.5 |
| 2410 | 1,1-Dichloropropene | 0.5 | U | 0.5 |
| 2412 | 1,3-Dichloropropane | 0.5 | U | 0.5 |
| 2414 | 1,2,3-Trichloropropane | 0.5 | U | 0.5 |
| 2416 | 2,2-Dichloropropane | 0.5 | U | 0.5 |
| 2941 | Chloroform | 0.5 | U | 0.5 |
| 2942 | Bromoform | 0.5 | U | 0.5 |
| 2943 | Bromodichloromethane | 0.5 | U | 0.5 |
| 2944 | Dibromochloromethane | 0.5 | U | 0.5 |
| 2962 | para-Xylene | 0.5 | U | 0.5 |
| 2964 | Methylene Chloride | 0.5 | U | 0.5 |
| 2965 | o-Chlorotoluene | 0.5 | U | 0.5 |
| 2966 | p-Chlorotoluene | 0.5 | U | 0.5 |
| 2967 | meta-Dichlorobenzene | 0.5 | U | 0.5 |
| 2968 | Ortho-Dichlorobenzene | 0.5 | U | 0.5 |
| 2978 | 1,1-Dichloroethane | 0.5 | U | 0.5 |
| 2979 | trans-1,2-Dichloroethene | 0.5 | U | 0.5 |
| 2983 | 1,2-Dichloropropane | 0.5 | U | 0.5 |
| 2985 | 1,1,2-Trichloroethane | 0.5 | U | 0.5 |
| 2986 | 1,1,1,2-Tetrachloro ethane | 0.5 | U | 0.5 |
| 2988 | 1,1,2,2-Tetrachloro ethane | 0.5 | U | 0.5 |
| 2989 | Chlorobenzene | 0.5 | U | 0.5 |

ORLANDO LABORATORIES, INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-118
Continued From Above

SAMPLE ID Unit 25
DATE COLLECTED 02/07/90 14:45:00
TEST NAME DER 17-550 Unregulated VOA

SAMPLE# 01A
MATRIX WATER
TEST CODE 524U

| | | | | |
|---|---|---|---|---|
| 2991 | Toluene | 0.5 | U | 0.5 |
| 2992 | Ethylbenzene | 0.5 | U | 0.5 |
| 2993 | Bromobenzene | 0.5 | U | 0.5 |
| 2995 | meta-Xylene | 0.5 | U | 0.5 |
| 2996 | Styrene | 0.5 | U | 0.5 |
| 2997 | ortho Xylene | 0.5 | U | 0.5 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-118

SAMPLE ID Unit 25
DATE COLLECTED 02/07/90 14:45:00
TEST NAME DER 17-550 Unreg Pest 531s

SAMPLE# 01A
MATRIX WATER
TEST CODE 531U

SAMPLE TYPE WATER
UNITS ug/l
ANALYST JAB

DATE EXTRACTED NA
DATE RUN 02/09/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-531
UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PWS035)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2047 | Aldicarb | 2.0 | U | 2 |
| 2043 | Aldicarb Sulfoxide | 2.0 | U | 2 |
| 2044 | Aldicarb Sulfone | 2.0 | U | 2 |
| 2046 | Carbofuran | 1.5 | U | 1.5 |
| 2036 | Oxamyl (Vydate) | 1.0 | U | 1 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-118

SAMPLE ID Unit 25
DATE COLLECTED 02/07/90 14:45:00
TEST NAME DER 17-550 Reg. Pest 608s

SAMPLE# 01A
MATRIX WATER
TEST CODE 608R

SAMPLE TYPE WATER
UNITS ug/l
ANALYST RAB

DATE EXTRACTED 02/13/90
DATE RUN 02/14/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-608
ORGANIC CHEMICAL ANALYSIS
17-550.310(2)(a)
(PWS029)

| Parameter ID | Name | Analysis Result | | Det. Lt. Used |
|---|---|---|---|---|
| 2005 | Endrin | 0.10 | U | 0.10 |
| 2010 | Lindane | 0.05 | U | 0.05 |
| 2015 | Methoxychlor | 0.50 | U | 0.50 |
| 2020 | Toxaphene | 1.00 | U | 1.00 |

ORLANDO LABORATORIES, INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-118

SAMPLE ID Unit 25
DATE COLLECTED 02/07/90 14:45:00
TEST NAME DER 17-550 Unreg Pest 608s

SAMPLE# 01A
MATRIX WATER
TEST CODE 608U

SAMPLE TYPE WATER
UNITS ug/l
ANALYST RAB

DATE EXTRACTED 02/13/90
DATE RUN 02/14/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-608
UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PWS035)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2065 | Heptachlor | 0.05 | U | 0.05 |
| 2356 | Aldrin | 0.05 | U | 0.05 |
| 2364 | Dieldrin | 0.10 | U | 0.10 |
| 2959 | Chlordane | 0.50 | U | 0.50 |

UNREGULATED BASE NEUTRAL EXTRACTABLE ANALYSIS
17-550.410(3)
(PWS036)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2388 | PCB-1016 | 0.50 | U | 0.5 |
| 2390 | PCB-1221 | 0.50 | U | 0.5 |
| 2392 | PCB-1232 | 0.50 | U | 0.5 |
| 2394 | PCB-1242 | 0.50 | U | 0.5 |
| 2396 | PCB-1248 | 0.50 | U | 0.5 |
| 2398 | PCB-1254 | 1.00 | U | 1.0 |
| 2400 | PCB-1260 | 1.00 | U | 1.0 |

ORLANDO LABORATORIES, INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-118

SAMPLE ID Unit 25
DATE COLLECTED 02/07/90 14:45:00
TEST NAME DER 17-550 Req. Herb 615

SAMPLE# 01A
MATRIX WATER
TEST CODE 615R

SAMPLE TYPE WATER
UNITS ug/l
ANALYST RAB

DATE EXTRACTED 02/13/90
DATE RUN 02/16/90
DILUTION FACTOR 5
% MOISTURE NA

METHOD EPA-615
ORGANIC CHEMICAL ANALYSIS
17-550.310(2)(b)
(PWS029)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2105 | 2,4-D | 10 | U | 10 |
| 2110 | 2,4,5-TP (Silvex) | 5 | U | 5 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-118

SAMPLE ID Unit 25
DATE COLLECTED 02/07/90 14:45:00
TEST NAME DER 17-550 Unreg Pest 515#

SAMPLE# 01A
MATRIX WATER
TEST CODE 615U

SAMPLE TYPE WATER
UNITS ug/l
ANALYST RAB

DATE EXTRACTED 02/13/90
DATE RUN 02/16/90
DILUTION FACTOR 5
% MOISTURE NA

METHOD EPA-515.1.
UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PW3035)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 2031 | Dalapon | 5 U | 5 |
| 2040 | Picloram | 5 U | 5 |
| 2041 | Dinoseb | 10 U | 10 |
| 2440 | Dicamba | 10 U | 10 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-118

SAMPLE ID Unit 25
DATE COLLECTED 02/07/90 14:45:00
TEST NAME DER 17-550 Unreg Pest 622s

SAMPLE# 01A
MATRIX WATER
TEST CODE 622U

SAMPLE TYPE WATER
UNITS ug/l
ANALYST JHH

DATE EXTRACTED 02/08/90
DATE RUN 02/12/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-622
UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PWS035)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2037 | Simazine | 0.5 | U | 0.5 |
| 2045 | Metolachlor | 0.5 | U | 0.5 |
| 2050 | Atrazine | 0.5 | U | 0.5 |
| 2051 | Alachlor (Lasso) | 0.5 | U | 0.5 |

ORLANDO LABORATORIES, INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-118

SAMPLE ID Unit 25
DATE COLLECTED 02/07/90 14:45:00
TEST NAME OER 17-550 Unreg BNAs/Pest

SAMPLE# 01A
MATRIX WATER
TEST CODE 625U

SAMPLE TYPE WATER
UNITS ug/l
ANALYST EJP

DATE EXTRACTED 2/12/90
DATE RUN 2/22/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-625
UNREGULATED BASE NEUTRAL EXTRACTABLE ANALYSIS
17-550.410(3)
(PWS036)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2262 | Isophorone | 10 | U | 10 |
| 2378 | 1,2,4-Trichlorobenzene | 10 | U | 10 |
| 2042 | Hexachlorocyclo pentadiene | 10 | U | 10 |
| 2282 | Dimethylphthalate | 10 | U | 10 |
| 2270 | 2,4-Dinitrotoluene | 10 | U | 10 |
| 2284 | Diethylphthalate | 10 | U | 10 |
| 2290 | Di-n-butyl phthalate | 10 | U | 10 |
| 2294 | Butyl Benzyl Phthalate | 10 | U | 10 |
| 2298 | Bis(2-Ethylhexyl) phthalate | 10 | U | 10 |
| 9089 | Dioctylphthalate | 10 | U | 10 |
| 2063 | 2,3,7,8-TCDD (Dioxin) | 1000 | U | 1000 |

UNREGULATED ACID EXTRACTABLE ANALYSIS
17-550.410(4)
(PWS037)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 9108 | 2-Chlorophenol | 10 | U | 10 |
| 9112 | 2-Methyl-4,6-Dinitro phenol | 50 | U | 50 |
| 9115 | Phenol | 10 | U | 10 |
| 9116 | 2,4,6-Trichlorophenol | 10 | U | 10 |

UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PWS035)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2326 | Pentachlorophenol | 50 | U | 50 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-118

SAMPLE ID Unit 25
DATE COLLECTED 02/07/90 14:45:00
TEST NAME 17-550 Total Coliform Bact

SAMPLE# 01A
MATRIX WATER
TEST CODE DERBCT

MICROBIOLOGICAL ANALYSIS
17-550.640

| Parameter ID | Name | Analysis Result(Cfu's/100ml) | Analytical Method |
|---|---|---|---|
| 3000 | Total Coliform | <1/L | EPA Part III B |

Date Set Up: 02/08/90
Date Read : 02/09/90

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-118

SAMPLE ID Unit 25
DATE COLLECTED 02/07/90 14:45:00
TEST NAME 17-550 Primary Metals Only

SAMPLE# 01A
MATRIX WATER
TEST CODE DERPDM

(METALS)
INORGANIC ANALYSIS
17-550.310(1)
(PWS030)

| Parameter ID | Name | Analysis Result(mg/l) | Method | Det.Lt. (mg/l) | Analysis Date |
|---|---|---|---|---|---|
| 1005 | Arsenic | <0.010 | EPA206.2 | 0.010 | 02/14/90 |
| 1010 | Barium | <0.100 | EPA200.7 | 0.100 | 02/14/90 |
| 1015 | Cadmium | <0.005 | EPA213.2 | 0.005 | 02/14/90 |
| 1020 | Chromium | <0.010 | EPA218.2 | 0.010 | 02/15/90 |
| 1030 | Lead | <0.010 | EPA239.2 | 0.010 | 02/14/90 |
| 1035 | Mercury | <0.0005 | EPA245.1 | 0.0005 | 02/13/90 |
| 1045 | Selenium | <0.005 | EPA270.2 | 0.005 | 02/14/90 |
| 1050 | Silver | <0.010 | EPA272.2 | 0.010 | 02/14/90 |
| 1052 | Sodium | 4.37 | EPA200.7 | 0.001 | 02/14/90 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-118

SAMPLE ID Unit 25
DATE COLLECTED 02/07/90 14:45:00
TEST NAME 17-550 Primary NotChem

SAMPLE# 01A
MATRIX WATER
TEST CODE DERPDW

NET CHEMISTRY
SECONDARY CHEMICAL ANALYSIS
17-550.310(1)
(PWS030)

| Parameter ID | Name | Analysis Result(mg/l) | Method | Det.Lt. (mg/l) | Analysis Date |
|---|---|---|---|---|---|
| 1025 | Fluoride | <0.1 | EPA340.2 | 0.1 | 02/13/90 |
| 1040 | Nitrate (as N) | 0.21 | EPA353.2 | 0.03 | 02/13/90 |

ORLANDO LABORATORIES,INC. REPORT OF ANALYSIS Work Order # 90-02-118
Received: 02/08/90 Results by Sample

SAMPLE ID Unit 25 SAMPLE# 01A
DATE COLLECTED 02/07/90 14:45:00 MATRIX WATER
TEST NAME DER 17-5 Secondary Metals TEST CODE DERSOM

(METALS)
SECONDARY CHEMICAL ANALYSIS
17-550.320
(PWS031)

| Parameter ID | Name | Analysis Result(mg/l) | Method | Det.Lt. (mg/l) | Analysis Date |
|---|---|---|---|---|---|
| 1022 | Copper | <0.010 | EPA200.7 | 0.010 | 02/15/90 |
| 1028 | Iron | <0.100 | EPA200.7 | 0.1 | 02/14/90 |
| 1032 | Manganese | <0.050 | EPA200.7 | 0.050 | 02/14/90 |
| 1095 | Zinc | <0.050 | EPA200.7 | 0.050 | 02/14/90 |
| 1919 | Calcium Hardness | 110 | EPA200.7 | 2.5 | 02/14/90 |

ORLANDO LABORATORIES,INC. REPORT OF ANALYSIS Work Order # 90-02-118
Received: 02/08/90 Results by Sample

SAMPLE ID Unit 25 SAMPLE# 01A
DATE COLLECTED 02/07/90 14:45:00 MATRIX WATER
TEST NAME DER 17-5 Secondary Wet Chm TEST CODE DERSDW

WET CHEMISTRY
SECONDARY CHEMICAL ANALYSIS
17-550.320
(PWS031)

| Parameter ID | Name | Analysis Result(mg/l) | Method | Det.Lt. (mg/l) | Analysis Date |
|---|---|---|---|---|---|
| 1017 | Chloride | 2.0 | SM 407 | 1.0 | 02/12/90 |
| 1025 | Fluoride | <0.1 | EPA340.2 | 0.1 | 02/13/90 |
| 1055 | Sulfate | 6.4 | EPA375.4 | 1.0 | 02/13/90 |
| 1901 | Carbon Dioxide | 2 | SM 406 C | 1.0 | 02/15/90 |
| 1905 | Color | <5 | SM 204 A | 5PCU | 02/09/90 |
| 1920 | Odor Threshold | 1 | EPA140.1 | 1TON | 02/09/90 |
| 1927 | Total Alkalinity | 130 | EPA310.1 | 2.0 | 02/09/90 |
| 1930 | Total Dissolved Solids | 130 | EPA160.1 | 1.0 | 02/13/90 |
| 1931 | Phenolphthalein Alk | <2.0 | EPA310.1 | 2.0 | 02/09/90 |
| 1997 | Langelier Index pHs | 7.63 | CALC. | N/A | 02/15/90 |
| 1998 | Saturation Index | 0.47 | CALC. | N/A | 02/15/90 |
| 2909 | Foaming Agents | <0.1 | EPA425.1 | 0.1 | 02/10/90 |

VERIFIED BY DTA

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-118

SAMPLE ID Unit 25
DATE COLLECTED 02/07/90 14:45:00
TEST NAME 17-550 Turbidity Analysis

SAMPLE# 01A
MATRIX WATER
TEST CODE 0ER1RB

TURBIDITY ANALYSIS
17-550.310(3)
(PWS026)

| Parameter ID | Name | Analysis Result(NTU) | Method | Analysis Date |
|---|---|---|---|---|
| 0100 | Turbidity | <1.0 | EPA180.1 | 02/09/90 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-118

SAMPLE ID Unit 25
DATE COLLECTED 02/07/90 14:45:00
TEST NAME Gross Alpha (water)17-550

SAMPLE# 01A
MATRIX WATER
TEST CODE WER GA

VERIFIED JAB

RADIOLOIGICAL ANALYSIS
17-550.310(5)
(FWS033)

| Parameter ID | Name | Analysis Result(pCi/l) | Method | Analysis Error | Analysis Date |
|---|---|---|---|---|---|
| 4002 | Gross alpha incl radon & uranium | 0.7 | EPA900.0 | 1.1 | 02/26/90 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-118

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME 17-550 Trihalomethanes

SAMPLE# 02A
MATRIX METHOD BLANK
TEST CODE 501R

SAMPLE TYPE WATER
UNITS ug/l
ANALYST EJP

DATE EXTRACTED NA
DATE RUN 2/10/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-501.2
TRIHALOMETHANE ANALYSIS
17-550.310(2)(C)
(PWS027)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 2950 | TTHM | 1.0 U | 1.0 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-118

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME 17-550 "EDB" Analysis

SAMPLE# 02A
MATRIX METHOD BLANK
TEST CODE 504R

SAMPLE TYPE WATER
UNITS ug/l
ANALYST JAB

DATE EXTRACTED 02/08/90
DATE RUN 02/12/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-504
VOLATILE ORGANIC ANALYSIS
17-550.310(2)(D)
(PWS028)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 2946 | Ethylene dibromide | 0.02 U | 0.02 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-118

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME 17-550 "DBCP" Analysis

SAMPLE# 02A
MATRIX METHOD BLANK
TEST CODE 504U

SAMPLE TYPE WATER
UNITS UG/L
ANALYST JAB

DATE EXTRACTED 02/08/90
DATE RUN 02/12/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-504
UNREGULATED ORGANIC PURGEABLE ANALYSIS
17-550.410(1)
(PWS034)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 2931 | 1,2-dibromo-3-chloro propane | 0.02 U | 0.02 |

ORLANDO LABORATORIES,INC. REPORT OF ANALYSIS Work Order # 90-02-118
Received: 02/08/90 Results by Sample

SAMPLE ID Method Blank SAMPLE# 02A
DATE COLLECTED not specified MATRIX METHOD BLANK
TEST NAME DER 17-550 Regulated VOA's TEST CODE 524R

SAMPLE TYPE WATER DATE EXTRACTED NA
UNITS UG/L DATE RUN 2/10/90
ANALYST EJP DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-524
VOLATILE ORGANIC ANALYSIS
17-550.310(2)(d)
(PNS028)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2969 | p-Dichlorobenzene | 0.5 | U | 0.5 |
| 2976 | Vinyl Chloride | 0.5 | U | 0.5 |
| 2977 | 1,1-Dichloroethene | 0.5 | U | 0.5 |
| 2980 | 1,2-Dichloroethane | 0.5 | U | 0.5 |
| 2981 | 1,1,1-Trichloroethane | 0.5 | U | 0.5 |
| 2982 | Carbon Tetrachloride | 0.5 | U | 0.5 |
| 2984 | Trichloroethene | 0.5 | U | 0.5 |
| 2987 | Tetrachloroethene | 0.5 | U | 0.5 |
| 2990 | Benzene | 0.5 | U | 0.5 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-118

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME DER 17-550 Unregulated VOA

SAMPLE# 02A
MATRIX METHOD BLANK
TEST CODE 524U

SAMPLE TYPE WATER
UNITS UG/L
ANALYST EJP

DATE EXTRACTED NA
DATE RUN 2/10/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-524
UNREGULATED ORGANIC PURGEABLE ANALYSIS
17-550.410(1)
(PWS034)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2210 | Chloromethane | 0.5 | U | 0.5 |
| 2212 | Dichlorodifluoromethane | 0.5 | U | 0.5 |
| 2214 | Bromomethane | 0.5 | U | 0.5 |
| 2216 | Chloroethane | 0.5 | U | 0.5 |
| 2218 | Trichlorofluoromethane | 0.5 | U | 0.5 |
| 2224 | trans-1,3-Dichloro propene | 0.5 | U | 0.5 |
| 2228 | cis-1,3-Dichloropropene | 0.5 | U | 0.5 |
| 2251 | Methyl tert-butyl-ether | 0.5 | U | 0.5 |
| 2380 | cis-1,2-Dichloroethene | 0.5 | U | 0.5 |
| 2408 | Dibromomethane | 0.5 | U | 0.5 |
| 2410 | 1,1-Dichloropropene | 0.5 | U | 0.5 |
| 2412 | 1,3-Dichloropropane | 0.5 | U | 0.5 |
| 2414 | 1,2,3-Trichloropropane | 0.5 | U | 0.5 |
| 2416 | 2,2-Dichloropropane | 0.5 | U | 0.5 |
| 2941 | Chloroform | 0.5 | U | 0.5 |
| 2942 | Bromoform | 0.5 | U | 0.5 |
| 2943 | Bromodichloromethane | 0.5 | U | 0.5 |
| 2944 | Dibromochloromethane | 0.5 | U | 0.5 |
| 2962 | para-Xylene | 0.5 | U | 0.5 |
| 2964 | Methylene Chloride | 0.5 | U | 0.5 |
| 2965 | o-Chlorotoluene | 0.5 | U | 0.5 |
| 2966 | p-Chlorotoluene | 0.5 | U | 0.5 |
| 2967 | meta-Dichlorobenzene | 0.5 | U | 0.5 |
| 2968 | Ortho-Dichlorobenzene | 0.5 | U | 0.5 |
| 2978 | 1,1-Dichloroethane | 0.5 | U | 0.5 |
| 2979 | trans-1,2-Dichloroethene | 0.5 | U | 0.5 |
| 2983 | 1,2-Dichloropropane | 0.5 | U | 0.5 |
| 2985 | 1,1,2-Trichloroethane | 0.5 | U | 0.5 |
| 2986 | 1,1,1,2-Tetrachloro ethane | 0.5 | U | 0.5 |
| 2988 | 1,1,2,2-Tetrachloro ethane | 0.5 | U | 0.5 |
| 2989 | Chlorobenzene | 0.5 | U | 0.5 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-118
Continued From Above

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME DER 17-55D Unregulated VOA

SAMPLE# 02A
MATRIX METHOD BLANK
TEST CODE 524U

| | | | | |
|---|---|---|---|---|
| 2991 | Toluene | 0.5 | U | 0.5 |
| 2992 | Ethylbenzene | 0.5 | U | 0.5 |
| 2993 | Bromobenzene | 0.5 | U | 0.5 |
| 2995 | meta-Xylene | 0.5 | U | 0.5 |
| 2996 | Styrene | 0.5 | U | 0.5 |
| 2997 | ortho Xylene | 0.5 | U | 0.5 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-118

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME DER 17-550 Unreg Pest 531s

SAMPLE# 02A
MATRIX METHOD BLANK
TEST CODE 531U

SAMPLE TYPE WATER
UNITS ug/l
ANALYST JAB

DATE EXTRACTED NA
DATE RUN 02/09/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-531
UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PWS035)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2047 | Aldicarb | 2.0 | U | 2 |
| 2043 | Aldicarb Sulfoxide | 2.0 | U | 2 |
| 2044 | Aldicarb Sulfone | 2.0 | U | 2 |
| 2046 | Carbofuran | 1.5 | U | 1.5 |
| 2036 | Oxymyl (Vydate) | 1.0 | U | 1 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-118

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME CER 17-550 Reg. Pest 608s

SAMPLE# 02A
MATRIX METHOD BLANK
TEST CODE 608R

SAMPLE TYPE WATER
UNITS ug/l
ANALYST RAB

DATE EXTRACTED 02/13/90
DATE RUN 02/14/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-608
ORGANIC CHEMICAL ANALYSIS
17-550.310(2)(a)
(PWS029)

| Parameter ID | Name | Analysis Result | | Det. Lt. Used |
|---|---|---|---|---|
| 2005 | Endrin | 0.10 | U | 0.10 |
| 2010 | Lindane | 0.05 | U | 0.05 |
| 2015 | Methoxychlor | 0.50 | U | 0.50 |
| 2020 | Toxaphene | 1.00 | U | 1.00 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-118

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME DER 17-550 Unreg Pest 608s

SAMPLE# 02A
MATRIX METHOD BLANK
TEST CODE 608U

SAMPLE TYPE WATER
UNITS ug/l
ANALYST RAB

DATE EXTRACTED 02/13/90
DATE RUN 02/14/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-608
UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PWS035)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2065 | Heptachlor | 0.05 | U | 0.05 |
| 2356 | Aldrin | 0.05 | U | 0.05 |
| 2364 | Dieldrin | 0.10 | U | 0.10 |
| 2959 | Chlordane | 0.50 | U | 0.50 |

UNREGULATED BASE NEUTRAL EXTRACTABLE ANALYSIS
17-550.410(3)
(PWS036)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2388 | PCB-1016 | 0.50 | U | 0.5 |
| 2390 | PCB-1221 | 0.50 | U | 0.5 |
| 2392 | PCB-1232 | 0.50 | U | 0.5 |
| 2394 | PCB-1242 | 0.50 | U | 0.5 |
| 2396 | PCB-1248 | 0.50 | U | 0.5 |
| 2398 | PCB-1254 | 1.00 | U | 1.0 |
| 2400 | PCB-1260 | 1.00 | U | 1.0 |

ORLANDO LABORATORIES,INC. REPORT OF ANALYSIS Work Order # 90-02-118
Received: 02/08/90 Results by Sample

SAMPLE ID Method Blank SAMPLE# 02A
DATE COLLECTED not specified MATRIX METHOD BLANK
TEST NAME DER 17-550 Reg. Herb 615 TEST CODE 615R

SAMPLE TYPE WATER DATE EXTRACTED 02/13/90
UNITS ug/l DATE RUN 02/16/90
ANALYST RAB DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-615
ORGANIC CHEMICAL ANALYSIS
17-550.310(2)(b)
(PWS029)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2105 | 2,4-D | 2.0 | U | 2 |
| 2110 | 2,4,5-TP (Silvex) | 1.0 | U | 1 |

ORLANDO LABORATORIES, INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-118

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME DER 17-550 Unreg Pest 515s

SAMPLE# 02A
MATRIX METHOD BLANK
TEST CODE 615U

SAMPLE TYPE WATER
UNITS ug/l
ANALYST RAB

DATE EXTRACTED 02/13/90
DATE RUN 02/16/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-515.1
UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PWS035)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 2031 | Dalapon | 1.0 U | 1 |
| 2040 | Picloram | 1.0 U | 1 |
| 2041 | Dinoseb | 2.0 U | 2 |
| 2440 | Dicamba | 2.0 U | 2 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-118

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME DER 17-550 Unreg Pest 622s

SAMPLE# 02A
MATRIX METHOD BLANK
TEST CODE 622U

SAMPLE TYPE WATER
UNITS ug/l
ANALYST JHW

DATE EXTRACTED 02/08/90
DATE RUN 02/12/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-622
UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PW3035)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 2037 | Simazine | 0.5 U | 0.5 |
| 2045 | Metolachlor | 0.5 U | 0.5 |
| 2050 | Atrazine | 0.5 U | 0.5 |
| 2051 | Alachlor (Lasso) | 0.5 U | 0.5 |

ORLANDO LABORATORIES,INC. REPORT OF ANALYSIS Work Order # 90-02-118
Received: 02/08/90 Results by Sample

SAMPLE ID Method Blank SAMPLE# 02A
DATE COLLECTED not specified MATRIX METHOD BLANK
TEST NAME DER 17-550 Unreg BNAs/Pest TEST CODE 625U

SAMPLE TYPE WATER DATE EXTRACTED 2/12/90
UNITS ug/l DATE RUN 2/18/90
ANALYST EJP DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-625
UNREGULATED BASE NEUTRAL EXTRACTABLE ANALYSIS
17-550.410(3)
(PWS036)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 2262 | Isophorone | 10 U | 10 |
| 2378 | 1,2,4-Trichlorobenzene | 10 U | 10 |
| 2042 | Hexachlorocyclo pentadiene | 10 U | 10 |
| 2282 | Dimethylphthalate | 10 U | 10 |
| 2270 | 2,4-Dinitrotoluene | 10 U | 10 |
| 2284 | Diethylphthalate | 10 U | 10 |
| 2290 | Di-n-butyl phthalate | 10 U | 10 |
| 2294 | Butyl Benzyl Phthalate | 10 U | 10 |
| 2298 | Bis(2-Ethylhexyl) phthalate | 10 U | 10 |
| 9089 | Dioctylphthalate | 10 U | 10 |
| 2063 | 2,3,7,8-TCDD (Dioxin) | 1000 U | 1000 |

UNREGULATED ACID EXTRACTABLE ANALYSIS
17-550.410(4)
(PWS037)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 9108 | 2-Chlorophenol | 10 U | 10 |
| 9112 | 2-Methyl-4,6-Dinitro phenol | 50 U | 50 |
| 9115 | Phenol | 10 U | 10 |
| 9116 | 2,4,6-Trichlorophenol | 10 U | 10 |

UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PWS035)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 2326 | Pentachlorophenol | 50 U | 50 |

ORLANDO LABORATORIES, INC.
Received: 02/08/90

REPORT OF ANALYSIS
NonReported Work

Work Order # 90-02-118

FRACTION AND TEST CODES FOR WORK NOT REPORTED ELSEWHERE

01A : NOTEST

Spring Hill Utilities
Attn: Rick Leach

Report No: 90-02-118
Page No: 36

## QUALITY CONTROL DATA SHEET

| PARAMETER | DUPLICATES % DIFFERENCE | SPIKES % RECOVERY | DATE | ANALYST |
|---|---|---|---|---|
| Barium | <1 | 99 | 02/14/90 | BB |
| Sodium | 1 | 106 | 02/14/90 | BB |
| Iron | <1 | 101 | 02/14/90 | BB |
| Manganese | <1 | 100 | 02/14/90 | BB |
| Zinc | <1 | 104 | 02/14/90 | BB |
| Calcium | 1 | 103 | 02/14/90 | BB |
| Lead | 1 | 91 | 02/14/90 | JC |
| Arsenic | 2 | 92 | 02/14/90 | CFG |
| Silver | <1 | 101 | 02/14/90 | CFG |
| Mercury | 3 | 100 | 02/13/90 | EM |
| Selenium | <1 | 92 | 02/14/90 | CFG |
| Cadmium | <1 | 104 | 02/14/90 | CFG |
| Chromium | 7 | 102 | 02/15/90 | CJP |
| Copper | <1 | 97 | 02/15/90 | CFG |
| Color | <1 | N/A | 02/09/90 | DR |
| Odor | <1 | N/A | 02/09/90 | DR |
| Nitrogen, Nitrite | <1 | 88 | 02/10/90 | DB |
| Turbidity | <1 | N/A | 02/09/90 | DR |
| pH | 1 | N/A | 02/09/90 | DA |
| Total Alkalinity | 6 | 116 | 02/09/90 | DA |
| Chloride | 5 | 105/110 | 02/12/90 | DA |
| Sulfate | 4 | 112 | 02/13/90 | SRK |
| TDS | 2 | 94/96 | 02/13/90 | DB |
| Fluoride | 4 | 107/103 | 02/12/90 | DA |
| Nitrogen, Nitrate | <1 | 99 | 02/13/90 | DR |
| MBAS | <1 | 92 | 02/10/90 | DR |
| Gross Alpha | 0.0 | 91 | 02/27/90 | JAB |

Note: The duplicate for Gross Alpha is reported as actual difference rather than percent difference as specified.

ORLANDO LABORATORIES, INC.

GC ORGANICS



# MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 02-13-1990

LAB SAMPLE # : 9002084-01A
ANALYSIS DATE : 02/12/90

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| ETHYLENE DIBROMIDE | 100 | 0 | 59 | 59 | 59 | 59 | 0 |

COMMENTS :

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| ETHYLENE DIBROMIDE | 34 | 92 | 20 | 65 | 90 | 20 |

ORLANDO LABORATORIES, INC.



# MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 02-13-1990

LAB SAMPLE # : 9002085-01A
ANALYSIS DATE : 02/12/90

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| diazinon | 100 | 0 | 93 | 93 | 96 | 96 | 3 |

COMMENTS :

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| diazinon | 67 | 167 | 18 | 36 | 174 | 28 |

ORLANDO LABORATORIES INC.

GC/MS VOLATILE ORGANICS



MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 02-10-1990

LAB SAMPLE # : 9002118-1
ANALYSIS DATE : 2/10/90

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| 1,1-dichloroethene | 50 | 0 | 56 | 112 | 53 | 106 | 6 |
| trichloroethene | 50 | 0 | 51 | 102 | 49 | 98 | 4 |
| benzene | 50 | 0 | 55 | 110 | 46 | 92 | 18 * |
| toluene | 50 | 0 | 58 | 116 | 53 | 106 | 9 |
| chlorobenzene | 50 | 0 | 50 | 100 | 49 | 98 | 2 |

COMMENTS : * = parameter outside QC limits.

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| 1,1-dichloroethene | 61 | 145 | 14 | 59 | 172 | 22 |
| trichloroethene | 71 | 120 | 14 | 62 | 137 | 24 |
| benzene | 76 | 127 | 11 | 66 | 142 | 21 |
| toluene | 76 | 125 | 13 | 59 | 139 | 21 |
| chlorobenzene | 75 | 130 | 13 | 60 | 133 | 21 |

ORLANDO LABORATORIES, INC.

GC ORGANICS



# MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 02-16-1990

LAB SAMPLE # : 9002115-01A
ANALYSIS DATE : 02/14/90

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| GAMMA-BHC (LINDANE) | 100 | 0 | 117 | 117 | 117 | 117 | 0 |
| HEPTACHLOR | 100 | 0 | 122 | 122 | 123 | 123 | 1 |
| ALDRIN | 100 | 0 | 97 | 97 | 95 | 95 | 2 |
| DIELDRIN | 100 | 0 | 90 | 90 | 88 | 88 | 2 |
| ENDRIN | 100 | 0 | 90 | 90 | 88 | 88 | 2 |
| 4,4-DDT | 100 | 0 | 67 | 67 | 65 | 68 | 1 |

COMMENTS :

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| GAMMA-BHC (LINDANE) | 56 | 123 | 15 | 46 | 127 | 50 |
| HEPTACHLOR | 40 | 131 | 20 | 35 | 130 | 31 |
| ALDRIN | 40 | 120 | 22 | 34 | 132 | 43 |
| DIELDRIN | 52 | 126 | 18 | 31 | 134 | 38 |
| ENDRIN | 56 | 121 | 21 | 42 | 139 | 45 |
| 4,4-DDT | 38 | 127 | 27 | 23 | 134 | 50 |

ORLANDO LABORATORIES INC.

GC/MS SEMI-VOLATILE ORGANICS



MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 02-23-1990

LAB SAMPLE # : 90-02-144-1
ANALYSIS DATE : 2/22/90

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| phenol | 200 | 0 | 125 | 63 | 119 | 60 | 5 |
| 2-chlorophenol | 200 | 0 | 186 | 93 | 186 | 93 | 0 |
| 4-chloro-3-methylphenol | 200 | 0 | 132 | 66 | 126 | 63 | 5 |
| 4-nitrophenol | 200 | 0 | 184 | 92 * | 170 | 85 | 8 |
| pentachlorophenol | 200 | 0 | 246 | 123 * | 235 | 118 * | 5 |
| 1,4-dichlorobenzene | 100 | 0 | 103 | 103 * | 99 | 99 * | 4 |
| n-nitroso-di-n-propylamine | 100 | 0 | 142 | 142 * | 133 | 133 * | 7 |
| 1,2,4-trichlorobenzene | 100 | 0 | 101 | 101 * | 94 | 94 | 7 |
| acenaphthene | 100 | 0 | 121 | 121 * | 114 | 114 | 6 |
| 2,4-dinitrotoluene | 100 | 0 | 131 | 131 * | 127 | 127 * | 3 |
| pyrene | 100 | 0 | 103 | 103 | 96 | 96 | 7 |

COMMENTS : * = parameter outside QC limits.

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| phenol | 12 | 89 | 42 | 26 | 90 | 35 |
| 2-chlorophenol | 27 | 123 | 40 | 25 | 102 | 50 |
| 4-chloro-3-methylphenol | 23 | 97 | 42 | 26 | 103 | 33 |
| 4-nitrophenol | 10 | 90 | 50 | 11 | 114 | 50 |
| pentachlorophenol | 25 | 103 | 50 | 17 | 109 | 47 |
| 1,4-dichlorobenzene | 36 | 97 | 28 | 28 | 104 | 27 |
| n-nitroso-di-n-propylamine | 41 | 116 | 38 | 41 | 126 | 38 |
| 1,2,4-trichlorobenzene | 39 | 98 | 28 | 38 | 107 | 23 |
| acenaphthene | 46 | 118 | 31 | 31 | 137 | 19 |
| 2,4-dinitrotoluene | 24 | 102 | 38 | 28 | 95 | 47 |
| pyrene | 26 | 127 | 31 | 35 | 142 | 36 |

ORLANDO LABORATORIES, INC.



# MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 02-19-1990

LAB SAMPLE # : 9002115-01A
ANALYSIS DATE : 02/16/90

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| DALAPON | 100 | 0 | 125 | 125 | 132 | 132 | 5 |
| 2,4,5-TP (SILVEX) | 100 | 0 | 99 | 99 | 108 | 108 | 9 |
| PICLORAM | 100 | 0 | 194 | 194 | 188 | 188 | 4 |

COMMENTS :

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| DALAPON | 95 | 175 | 20 | 95 | 175 | 20 |
| 2,4,5-TP (SILVEX) | 95 | 175 | 20 | 95 | 175 | 20 |
| PICLORAM | 95 | 175 | 20 | 95 | 175 | 20 |

ORLANDO LABORATORIES, INC.

GC ORGANICS



# MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 02-15-1990

LAB SAMPLE # : 9002115-01A
ANALYSIS DATE : 02/09/90

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| ALDICARB | 186 | 8 | 182 | 102 | 94 | 94 | 8 |

COMMENTS :

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| ALDICARB | 77 | 127 | 28 | 72 | 137 | 28 |

End of Report

0329

**ORLANDO LABORATORIES, INC.**
P.O. Box 149127, Orlando, FL 32814
(407) 896-6645 FAX (407) 896-6588

# CHAIN-OF-CUSTODY RECORD
(INSTRUCTIONS ON BACK)

Page _____ of _____ № 03309

| (INVOICE TO (COMPANY AND INDIVIDUAL) | ADDRESS (CITY STATE ZIP) | 1 | CONTACT PERSON/PHONE # INVOICE | 2 | CLIENT WORK ORDER # (LAB USE) | 3 |
|---|---|---|---|---|---|---|
| Spring Hill Utilities | Spring Hill Fl. 34608 | | 904 682-2715 | | 9062118 | |
| ORIGINAL REPORT TO (COMPANY AND INDIVIDUAL) | ADDRESS (CITY, STATE, ZIP) | 4 | CONTACT PERSON/PHONE # REPORT | 5 | PO NUMBER (LAB USE) | 6 |
| | SAME | | SAME | | 560 | |
| (OPTIONAL) ADDITIONAL REPORTS SENT TO: | ADDRESS (CITY, STATE, ZIP) | 7 | | | | |
| CLIENT PROJECT NAME | | 8 | CLIENT PROJECT # | 9 | | |
| UNIT #25 CARTER | | | 6271696 | | | |

| 10 SAMPLE IDENTIFICATION | 11 DATE/TIME | 12 COMP | GRAB | WATER | SOIL | OTHER | 13 SAMPLE DESCRIPTION | 17 NUMBER OF CONTAINERS | 18 REQUESTED ANALYSIS | 19 REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| Unit 25 | 2-7-90 2:45 | | X | | | | Tic Vide Kit | 2 | | |

| TRANSFER NUMBER | 14 RELINQUISHED BY | 15 DATE/TIME | 16 ACCEPTED BY |
|---|---|---|---|
| 1st | [illegible] | 2-8-90 10:30 | [illegible] |
| 2nd | | | |
| 3rd | | | |

20 ADDITIONAL REMARKS

21 COOLER #'s: 113

22 SAMPLER'S SIGNATURE: [illegible]

ORIGINAL - LAB
YELLOW - FILE
PINK - CLIENT

ORLANDO LABORATORIES INC
P.O. Box 149127 • Orlando, Florida 32814 • (407) 896-6645

REPORT OF ANALYSIS

Spring Hill Utilities
9500 Eldridge Road
Spring Hill, FL 34608

Attn: Rick Leach

Work Order # : 90-02-114
Date Received: 02/08/90
Date Reported: 03/01/90
OLI Contact: E_HOBBS

Work ID: 6271696 Unit 19 Killian
Total Samples: 3

Sampling information is based on data supplied by Rick Leach

| SAMPLE IDENTIFICATION | TEST CODES and NAMES used on this report |
|---|---|
| 01 Unit 19 | 501R 17-550 Trihalomethanes |
| 02 Trip Blank | 504R 17-550 "EDB" Analysis |
| 03 Method Blank | 504U 17-550 "DBCP" Analysis |
| | 524R DER 17-550 Regulated VOA's |
| | 524U DER 17-550 Unregulated VOA |
| | 531U DER 17-550 Unreg Pest 531s |
| | 608R DER 17-550 Reg. Pest 608s |
| | 608U DER 17-550 Unreg Pest 608s |
| | 615R DER 17-550 Reg. Herb 615 |
| | 615U DER 17-550 Unreg Pest 515s |
| | 622U DER 17-550 Unreg Pest 622s |
| | 625U DER 17-550 Unreg BNAs/Pest |
| | DERBCT 17-550 Total Coliform Bact |
| | DERPDM 17-550 Primary Metals Only |
| | DERPDW 17-550 Primary WetChem |
| | DERSDM DER 17-5 Secondary Metals |
| | DERSDW DER 17-5 Secondary Wet Chm |
| | DERTRB 17-550 Turbidity Analysis |
| | DER_GA Gross Alpha (water)17-550 |

Total Coliform: Set date 02/08/90 at 1400 hours
Read date 02/09/90 at 1400 hours

OLI Florida Department of Health & Rehabilitative Service Identification Numbers are:
Drinking Water Certification Number 83141, Environmental Certification Number E83033

Respectfully Submitted,
ORLANDO LABORATORIES, INC.

Acting
LABORATORY DIRECTOR

Eric Halarek
QUALITY CONTROL

ORLANDO LABORATORIES, INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90 02-114

SAMPLE ID Unit 19
DATE COLLECTED 02/07/90 14:00:00
TEST NAME 17-550 Trihalomethanes

SAMPLE # 010
MATRIX WATER
TEST CODE 501R

SAMPLE TYPE WATER
UNITS ug/l
ANALYST EJP

DATE EXTRACTED NA
DATE RUN 2/10/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-501.2
TRIHALOMETHANE ANALYSIS
17-550.310(2)(C)
(PWS027)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 2950 | TTHM | 1.0 U | 1.0 |

ORLANDO LABORATORIES, INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-114

SAMPLE ID Unit 19
DATE COLLECTED 02/07/90 14:00:00
TEST NAME 17-550 "EDB" Analysis

SAMPLE # 01A
MATRIX WATER
TEST CODE 504R

SAMPLE TYPE WATER
UNITS ug/l
ANALYST JAB

DATE EXTRACTED 02/09/90
DATE RUN 02/12/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-504
VOLATILE ORGANIC ANALYSIS
17-550.310(2)(D)
(PWS028)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 2946 | Ethylene dibromide | 0.02 U | 0.02 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-114

SAMPLE ID Unit 19
DATE COLLECTED 02/07/90 14:00:00
TEST NAME 17-550 "DBCP" Analysis

SAMPLE# 01A
MATRIX WATER
TEST CODE 504U

SAMPLE TYPE WATER
UNITS UG/L
ANALYST JAB

DATE EXTRACTED 02/08/90
DATE RUN 02/12/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-504
UNREGULATED ORGANIC PURGEABLE ANALYSIS
17-550.410(1)
(PWS034)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 2931 | 1,2-dibromo-3-chloro propane | 0.02 U | 0.02 |

ORLANDO LABORATORIES,INC. REPORT OF ANALYSIS Work Order # 90-02-114
Received: 02/08/90 Results by Sample

SAMPLE ID Unit 19 SAMPLE# 01A
DATE COLLECTED 02/07/90 14:00:00 MATRIX WATER
TEST NAME DER 17-550 Regulated VOA's TEST CODE 524R

SAMPLE TYPE WATER DATE EXTRACTED NA
UNITS UG/L DATE RUN 2/10/90
ANALYST EJP DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-524
VOLATILE ORGANIC ANALYSIS
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2969 | p-Dichlorobenzene | 0.5 | U | 0.5 |
| 2976 | Vinyl Chloride | 0.5 | U | 0.5 |
| 2977 | 1,1-Dichloroethene | 0.5 | U | 0.5 |
| 2980 | 1,2-Dichloroethane | 0.5 | U | 0.5 |
| 2981 | 1,1,1-Trichloroethane | 0.5 | U | 0.5 |
| 2982 | Carbon Tetrachloride | 0.5 | U | 0.5 |
| 2984 | Trichloroethene | 0.5 | U | 0.5 |
| 2987 | Tetrachloroethene | 0.5 | U | 0.5 |
| 2990 | Benzene | 0.5 | U | 0.5 |

ORLANDO LABORATORIES, INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-114

SAMPLE ID Unit 19
DATE COLLECTED 02/07/90 14:00:00
TEST NAME DER 17-550 Unregulated VOA

SAMPLE# 01A
MATRIX WATER
TEST CODE 524U

SAMPLE TYPE WATER
UNITS UG/L
ANALYST EJP

DATE EXTRACTED NA
DATE RUN 2/10/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-524
UNREGULATED ORGANIC PURGEABLE ANALYSIS
17-550.410(1)
(PWS034)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2210 | Chloromethane | 0.5 | U | 0.5 |
| 2212 | Dichlorodifluoromethane | 0.5 | U | 0.5 |
| 2214 | Bromomethane | 0.5 | U | 0.5 |
| 2216 | Chloroethane | 0.5 | U | 0.5 |
| 2218 | Trichlorofluoromethane | 0.5 | U | 0.5 |
| 2224 | trans-1,3-Dichloro propene | 0.5 | U | 0.5 |
| 2228 | cis-1,3-Dichloropropene | 0.5 | U | 0.5 |
| 2251 | Methyl tert-butyl-ether | 0.5 | U | 0.5 |
| 2380 | cis-1,2-Dichloroethene | 0.5 | U | 0.5 |
| 2408 | Dibromomethane | 0.5 | U | 0.5 |
| 2410 | 1,1-Dichloropropene | 0.5 | U | 0.5 |
| 2412 | 1,3-Dichloropropane | 0.5 | U | 0.5 |
| 2414 | 1,2,3-Trichloropropane | 0.5 | U | 0.5 |
| 2416 | 2,2-Dichloropropane | 0.5 | U | 0.5 |
| 2941 | Chloroform | 0.5 | U | 0.5 |
| 2942 | Bromoform | 0.5 | U | 0.5 |
| 2943 | Bromodichloromethane | 0.5 | U | 0.5 |
| 2944 | Dibromochloromethane | 0.5 | U | 0.5 |
| 2962 | para-Xylene | 0.5 | U | 0.5 |
| 2964 | Methylene Chloride | 0.5 | U | 0.5 |
| 2965 | o-Chlorotoluene | 0.5 | U | 0.5 |
| 2966 | p-Chlorotoluene | 0.5 | U | 0.5 |
| 2967 | meta-Dichlorobenzene | 0.5 | U | 0.5 |
| 2968 | Ortho-Dichlorobenzene | 0.5 | U | 0.5 |
| 2978 | 1,1-Dichloroethane | 0.5 | U | 0.5 |
| 2979 | trans-1,2-Dichloroethene | 0.5 | U | 0.5 |
| 2983 | 1,2-Dichloropropane | 0.5 | U | 0.5 |
| 2985 | 1,1,2-Trichloroethane | 0.5 | U | 0.5 |
| 2986 | 1,1,1,2-Tetrachloro ethane | 0.5 | U | 0.5 |
| 2988 | 1,1,2,2-Tetrachloro ethane | 0.5 | U | 0.5 |
| 2989 | Chlorobenzene | 0.5 | U | 0.5 |

ORLANDO LABORATORIES, INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-114
Continued From Above

SAMPLE ID Unit 19
DATE COLLECTED 02/07/90 14:00:00
TEST NAME DER 17-55D Unregulated VOA

SAMPLE# 01A
MATRIX WATER
TEST CODE 524U

| | | | | |
|---|---|---|---|---|
| 2991 | Toluene | 0.5 | U | 0.5 |
| 2992 | Ethylbenzene | 0.5 | U | 0.5 |
| 2993 | Bromobenzene | 0.5 | U | 0.5 |
| 2995 | meta-Xylene | 0.5 | U | 0.5 |
| 2996 | Styrene | 0.5 | U | 0.5 |
| 2997 | ortho Xylene | 0.5 | U | 0.5 |

ORLANDO LABORATORIES, INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-114

SAMPLE ID Unit 19
DATE COLLECTED 02/07/90 14:00:00
TEST NAME DER 17-550 Unreg Pest 531s

SAMPLE# 01A
MATRIX WATER
TEST CODE 531U

SAMPLE TYPE WATER
UNITS ug/l
ANALYST JAB

DATE EXTRACTED NA
DATE RUN 02/09/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-531
UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PWS035)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2047 | Aldicarb | 2.0 | U | 2 |
| 2043 | Aldicarb Sulfoxide | 2.0 | U | 2 |
| 2044 | Aldicarb Sulfone | 2.0 | U | 2 |
| 2046 | Carbofuran | 1.5 | U | 1.5 |
| 2036 | Oxymyl (Vydate) | 1.0 | U | 1 |

ORLANDO LABORATORIES, INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-114

SAMPLE ID Unit 19
DATE COLLECTED 02/07/90 14:00:00
TEST NAME DER 17-550 Reg. Pest 608s

SAMPLE# 01A
MATRIX WATER
TEST CODE 608R

SAMPLE TYPE WATER
UNITS ug/l
ANALYST RAB

DATE EXTRACTED 02/08/90
DATE RUN 02/12/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-608
ORGANIC CHEMICAL ANALYSIS
17-550.310(2)(a)
(PWS029)

| Parameter ID | Name | Analysis Result | | Det. Lt. Used |
|---|---|---|---|---|
| 2005 | Endrin | 0.10 | U | 0.10 |
| 2010 | Lindane | 0.05 | U | 0.05 |
| 2015 | Methoxychlor | 0.50 | U | 0.50 |
| 2020 | Toxaphene | 1.00 | U | 1.00 |

ORLANDO LABORATORIES, INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-114

SAMPLE ID Unit 19
DATE COLLECTED 02/07/90 14:00:00
TEST NAME DER 17-550 Unreg Pest 608s

SAMPLE# 01A
MATRIX WATER
TEST CODE 608U

SAMPLE TYPE WATER
UNITS ug/l
ANALYST RAB

DATE EXTRACTED 02/08/90
DATE RUN 02/12/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-608
UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PWS035)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2065 | Heptachlor | 0.05 | U | 0.05 |
| 2356 | Aldrin | 0.05 | U | 0.05 |
| 2364 | Dieldrin | 0.10 | U | 0.10 |
| 2959 | Chlordane | 0.50 | U | 0.50 |

UNREGULATED BASE NEUTRAL EXTRACTABLE ANALYSIS
17-550.410(3)
(PWS036)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2388 | PCB-1016 | 0.50 | U | 0.5 |
| 2390 | PCB-1221 | 0.50 | U | 0.5 |
| 2392 | PCB-1232 | 0.50 | U | 0.5 |
| 2394 | PCB-1242 | 0.50 | U | 0.5 |
| 2396 | PCB-1248 | 0.50 | U | 0.5 |
| 2398 | PCB-1254 | 1.00 | U | 1.0 |
| 2400 | PCB-1260 | 1.00 | U | 1.0 |

ORLANDO LABORATORIES, INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-114

SAMPLE ID Unit 19
DATE COLLECTED 02/07/90 14:00:00
TEST NAME DER 17-550 Reg. Herb 615

SAMPLE# 01A
MATRIX WATER
TEST CODE 615R

SAMPLE TYPE WATER
UNITS ug/l
ANALYST RAB

DATE EXTRACTED 02/13/90
DATE RUN 02/16/90
DILUTION FACTOR 5
% MOISTURE NA

METHOD EPA-615
ORGANIC CHEMICAL ANALYSIS
17-550.310(2)(b)
(PWS029)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2105 | 2,4-D | 10 | U | 10 |
| 2110 | 2,4,5-TP (Silvex) | 5 | U | 5 |

ORLANDO LABORATORIES, INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-114

SAMPLE ID Unit 19
DATE COLLECTED 02/07/90 14:00:00
TEST NAME DER 17-550 Unreg Pest 515a

SAMPLE# 01A
MATRIX WATER
TEST CODE 515U

SAMPLE TYPE WATER
UNITS ug/l
ANALYST RAB

DATE EXTRACTED 02/13/90
DATE RUN 02/16/90
DILUTION FACTOR 5
% MOISTURE NA

METHOD EPA-515.1
UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PWS035)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 2031 | Dalapon | 5 U | 5 |
| 2040 | Picloram | 5 U | 5 |
| 2041 | Dinoseb | 10 U | 10 |
| 2440 | Dicamba | 10 U | 10 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-114

SAMPLE ID Unit 19
DATE COLLECTED 02/07/90 14:00:00
TEST NAME DER 17-550 Unreg Pest 622s

SAMPLE# 01A
MATRIX WATER
TEST CODE 622U

SAMPLE TYPE WATER
UNITS ug/l
ANALYST JHW

DATE EXTRACTED 02/08/90
DATE RUN 02/12/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-622
UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PWS035)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2037 | Simazine | 0.5 | U | 0.5 |
| 2045 | Metolachlor | 0.5 | U | 0.5 |
| 2050 | Atrazine | 0.5 | U | 0.5 |
| 2051 | Alachlor (Lasso) | 0.5 | U | 0.5 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-114

SAMPLE ID Unit 19
DATE COLLECTED 02/07/90 14:00:00
TEST NAME DER 17-550 Unreg BNAs/Pest

SAMPLE# 01A
MATRIX WATER
TEST CODE 625U

SAMPLE TYPE WATER
UNITS ug/l
ANALYST EJP

DATE EXTRACTED 2/12/90
DATE RUN 2/18/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-625
UNREGULATED BASE NEUTRAL EXTRACTABLE ANALYSIS
17-550.410(3)
(PWS036)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2262 | Isophorone | 10 | U | 10 |
| 2378 | 1,2,4-Trichlorobenzene | 10 | U | 10 |
| 2042 | Hexachlorocyclo pentadiene | 10 | U | 10 |
| 2282 | Dimethylphthalate | 10 | U | 10 |
| 2270 | 2,4-Dinitrotoluene | 10 | U | 10 |
| 2284 | Diethylphthalate | 10 | U | 10 |
| 2290 | Di-n-butyl phthalate | 10 | U | 10 |
| 2294 | Butyl Benzyl Phthalate | 10 | U | 10 |
| 2298 | Bis(2-Ethylhexyl) phthalate | 10 | U | 10 |
| 9089 | Dioctylphthalate | 10 | U | 10 |
| 2063 | 2,3,7,8-TCDD (Dioxin) | 1000 | U | 1000 |

UNREGULATED ACID EXTRACTABLE ANALYSIS
17-550.410(4)
(PWS037)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 9108 | 2-Chlorophenol | 10 | U | 10 |
| 9112 | 2-Methyl-4,6-Dinitro phenol | 50 | U | 50 |
| 9115 | Phenol | 10 | U | 10 |
| 9116 | 2,4,6-Trichlorophenol | 10 | U | 10 |

UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PWS035)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2326 | Pentachlorophenol | 50 | U | 50 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-114

SAMPLE ID Unit 19
DATE COLLECTED 02/07/90 14:00:00
TEST NAME 17-550 Total Coliform Bact

SAMPLE# 01A
MATRIX WATER
TEST CODE OERBCI

MICROBIOLOGICAL ANALYSIS
17-550.640

| Parameter ID | Name | Analysis Result(Cfu's/100ml) | Analytical Method |
|---|---|---|---|
| 3000 | Total Coliform | <1/L | EPA Part III B |

Date Set Up: 02/08/90
Date Read : 02/09/90

ORLANDO LABORATORIES, INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-114

SAMPLE ID Unit 19
DATE COLLECTED 02/07/90 14:00:00
TEST NAME 17-550 Primary Metals Only

SAMPLE# 01A
MATRIX WATER
TEST CODE DERPOM

(METALS)
INORGANIC ANALYSIS
17-550.310(1)
(PWS030)

| Parameter ID | Name | Analysis Result(mg/l) | Method | Det.Lt. (mg/l) | Analysis Date |
|---|---|---|---|---|---|
| 1005 | Arsenic | <0.010 | EPA206.2 | 0.010 | 02/14/90 |
| 1010 | Barium | <0.100 | EPA200.7 | 0.100 | 02/14/90 |
| 1015 | Cadmium | <0.005 | EPA213.2 | 0.005 | 02/14/90 |
| 1020 | Chromium | <0.010 | EPA218.2 | 0.010 | 02/15/90 |
| 1030 | Lead | <0.010 | EPA239.2 | 0.010 | 02/14/90 |
| 1035 | Mercury | <0.0005 | EPA245.1 | 0.0005 | 02/13/90 |
| 1045 | Selenium | <0.005 | EPA270.2 | 0.005 | 02/14/90 |
| 1050 | Silver | <0.010 | EPA272.2 | 0.010 | 02/14/90 |
| 1052 | Sodium | 4.35 | EPA200.7 | 0.001 | 02/14/90 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-114

SAMPLE ID Unit 19
DATE COLLECTED 02/07/90 14:00:00
TEST NAME 17-550 Primary WetChem

SAMPLE# 01A
MATRIX WATER
TEST CODE WERPDW

WET CHEMISTRY
SECONDARY CHEMICAL ANALYSIS
17-550.310(1)
(PWS030)

| Parameter ID | Name | Analysis Result(mg/l) | Method | Det.Lt. (mg/l) | Analysis Date |
|---|---|---|---|---|---|
| 1025 | Fluoride | <0.1 | EPA340.2 | 0.1 | 02/13/90 |
| 1040 | Nitrate (as N) | 0.32 | EPA353.2 | 0.03 | 02/13/90 |

ORLANDO LABORATORIES, INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-114

SAMPLE ID Unit 19
DATE COLLECTED 02/07/90 14:00:00
TEST NAME DER 17-5 Secondary Metals

SAMPLE# 01A
MATRIX WATER
TEST CODE DERSUM

(METALS)
SECONDARY CHEMICAL ANALYSIS
17-550.320
(PWS031)

| Parameter ID | Name | Analysis Result(mg/l) | Method | Det.Lt. (mg/l) | Analysis Date |
|---|---|---|---|---|---|
| 1022 | Copper | <0.010 | EPA200.7 | 0.010 | 02/15/90 |
| 1028 | Iron | <0.100 | EPA200.7 | 0.1 | 02/14/90 |
| 1032 | Manganese | <0.050 | EPA200.7 | 0.050 | 02/14/90 |
| 1095 | Zinc | <0.050 | EPA200.7 | 0.050 | 02/14/90 |
| 1919 | Calcium Hardness | 111 | EPA200.7 | 2.5 | 02/14/90 |

ORLANDO LABORATORIES, INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-114

SAMPLE ID Unit 19
DATE COLLECTED 02/07/90 14:00:00
TEST NAME DER 17-5 Secondary Wet Chm

SAMPLE# 01A
MATRIX WATER
TEST CODE DERSDW

WET CHEMISTRY
SECONDARY CHEMICAL ANALYSIS
17-550.320
(PWS031)

| Parameter ID | Name | Analysis Result(mg/l) | Method | Det.Lt. (mg/l) | Analysis Date |
|---|---|---|---|---|---|
| 1017 | Chloride | 4.0 | SM 407 | 1.0 | 02/12/90 |
| 1025 | Fluoride | <0.1 | EPA340.2 | 0.1 | 02/13/90 |
| 1055 | Sulfate | 23 | EPA375.4 | 1.0 | 02/13/90 |
| 1901 | Carbon Dioxide | 1.8 | SM 406 C | 1.0 | 02/15/90 |
| 1905 | Color | <5 | SM 204 A | 5PCU | 02/09/90 |
| 1920 | Odor Threshold | 1 | EPA140.1 | 1TON | 02/09/90 |
| 1927 | Total Alkalinity | 110 | EPA310.1 | 2.0 | 02/09/90 |
| 1930 | Total Dissolved Solids | 140 | EPA160.1 | 1.0 | 02/13/90 |
| 1931 | Phenolphthalein Alk | <2.0 | EPA310.1 | 2.0 | 02/09/90 |
| 1997 | Langelier Index pHs | 7.71 | CALC. | N/A | 02/15/90 |
| 1998 | Saturation Index | 0.39 | CALC. | N/A | 02/15/90 |
| 2909 | Foaming Agents | <0.1 | EPA425.1 | 0.1 | 02/10/90 |

VERIFIED BY DTA

ORLANDO LABORATORIES, INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-114

SAMPLE ID Unit 19
DATE COLLECTED 02/07/90 14:00:00
TEST NAME 17-550 Turbidity Analysis

SAMPLE# 01A
MATRIX WATER
TEST CODE DERTR8

TURBIDITY ANALYSIS
17-550.310(3)
(PWS026)

| Parameter ID | Name | Analysis Result(NTU) | Method | Analysis Date |
|---|---|---|---|---|
| 0100 | Turbidity | <1.0 | EPA180.1 | 02/09/90 |

ORLANDO LABORATORIES, INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-114

SAMPLE ID Unit 19
DATE COLLECTED 02/07/90 14:00:00
TEST NAME Gross Alpha (water)17-550

SAMPLE# 01A
MATRIX WATER
TEST CODE DER GA

VERIFIED JAB

RADIOLOGICAL ANALYSIS
17-550.310(5)
(PWS033)

| Parameter ID | Name | Analysis Result(pCi/l) | Method | Analysis Error | Analysis Date |
|---|---|---|---|---|---|
| 4002 | Gross alpha incl radon & uranium | 2.0 | EPA900.0 | 1.7 | 02/26/90 |

ORLANDO LABORATORIES, INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-114

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME 17-550 Trihalomethanes

SAMPLE# 03A
MATRIX METHOD BLANK
TEST CODE 501R

SAMPLE TYPE WATER
UNITS ug/l
ANALYST EJP

DATE EXTRACTED NA
DATE RUN 2/10/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-501.2
TRIHALOMETHANE ANALYSIS
17-550.310(2)(C)
(PWS027)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 2950 | TTHM | 1.0 U | 1.0 |

ORLANDO LABORATORIES, INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-114

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME 17-550 "EDB" Analysis

SAMPLE# 03A
MATRIX METHOD BLANK
TEST CODE 504R

SAMPLE TYPE WATER
UNITS ug/l
ANALYST JAB

DATE EXTRACTED 02/08/90
DATE RUN 02/12/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-504
VOLATILE ORGANIC ANALYSIS
17-550.310(2)(D)
(PWS028)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2946 | Ethylene dibromide | 0.02 | U | 0.02 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-114

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME 17-550 "DBCP" Analysis

SAMPLE# 03A
MATRIX METHOD BLANK
TEST CODE 504U

SAMPLE TYPE WATER
UNITS UG/L
ANALYST JAB

DATE EXTRACTED 02/08/90
DATE RUN 02/12/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-504
UNREGULATED ORGANIC PURGEABLE ANALYSIS
17-550.410(1)
(PWS034)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 2931 | 1,2-dibromo-3-chloro propane | 0.02 U | 0.02 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-114

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME DER 17-550 Regulated VOA's

SAMPLE# 03A
MATRIX METHOD BLANK
TEST CODE 524R

SAMPLE TYPE WATER
UNITS UG/L
ANALYST EJP

DATE EXTRACTED NA
DATE RUN 2/10/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-524
VOLATILE ORGANIC ANALYSIS
17-550.310(Z)(d)
(PWS028)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2969 | p-Dichlorobenzene | 0.5 | U | 0.5 |
| 2976 | Vinyl Chloride | 0.5 | U | 0.5 |
| 2977 | 1,1-Dichloroethene | 0.5 | U | 0.5 |
| 2980 | 1,2-Dichloroethane | 0.5 | U | 0.5 |
| 2981 | 1,1,1-Trichloroethane | 0.5 | U | 0.5 |
| 2982 | Carbon Tetrachloride | 0.5 | U | 0.5 |
| 2984 | Trichloroethene | 0.5 | U | 0.5 |
| 2987 | Tetrachloroethene | 0.5 | U | 0.5 |
| 2990 | Benzene | 0.5 | U | 0.5 |

ORLANDO LABORATORIES, INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-114

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME DER 17-550 Unregulated VOA

SAMPLE# 03A
MATRIX METHOD BLANK
TEST CODE 524U

SAMPLE TYPE WATER
UNITS UG/L
ANALYST EJP

DATE EXTRACTED NA
DATE RUN 2/10/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-524
UNREGULATED ORGANIC PURGEABLE ANALYSIS
17-550.410(1)
(PWS034)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2210 | Chloromethane | 0.5 | U | 0.5 |
| 2212 | Dichlorodifluoromethane | 0.5 | U | 0.5 |
| 2214 | Bromomethane | 0.5 | U | 0.5 |
| 2216 | Chloroethane | 0.5 | U | 0.5 |
| 2218 | Trichlorofluoromethane | 0.5 | U | 0.5 |
| 2224 | trans-1,3-Dichloro propene | 0.5 | U | 0.5 |
| 2228 | cis-1,3-Dichloropropene | 0.5 | U | 0.5 |
| 2251 | Methyl tert-butyl-ether | 0.5 | U | 0.5 |
| 2380 | cis-1,2-Dichloroethene | 0.5 | U | 0.5 |
| 2408 | Dibromomethane | 0.5 | U | 0.5 |
| 2410 | 1,1-Dichloropropene | 0.5 | U | 0.5 |
| 2412 | 1,3-Dichloropropane | 0.5 | U | 0.5 |
| 2414 | 1,2,3-Trichloropropane | 0.5 | U | 0.5 |
| 2416 | 2,2-Dichloropropane | 0.5 | U | 0.5 |
| 2941 | Chloroform | 0.5 | U | 0.5 |
| 2942 | Bromoform | 0.5 | U | 0.5 |
| 2943 | Bromodichloromethane | 0.5 | U | 0.5 |
| 2944 | Dibromochloromethane | 0.5 | U | 0.5 |
| 2962 | para-Xylene | 0.5 | U | 0.5 |
| 2964 | Methylene Chloride | 0.5 | U | 0.5 |
| 2965 | o-Chlorotoluene | 0.5 | U | 0.5 |
| 2966 | p-Chlorotoluene | 0.5 | U | 0.5 |
| 2967 | meta-Dichlorobenzene | 0.5 | U | 0.5 |
| 2968 | Ortho-Dichlorobenzene | 0.5 | U | 0.5 |
| 2978 | 1,1-Dichloroethane | 0.5 | U | 0.5 |
| 2979 | trans-1,2-Dichloroethene | 0.5 | U | 0.5 |
| 2983 | 1,2-Dichloropropane | 0.5 | U | 0.5 |
| 2985 | 1,1,2-Trichloroethane | 0.5 | U | 0.5 |
| 2986 | 1,1,1,2-Tetrachloro ethane | 0.5 | U | 0.5 |
| 2988 | 1,1,2,2-Tetrachloro ethane | 0.5 | U | 0.5 |
| 2989 | Chlorobenzene | 0.5 | U | 0.5 |

URLANDO LABORATORIES, INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-114
Continued From Above

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME DER 17-550 Unregulated VOA

SAMPLE# 03A
MATRIX METHOD BLANK
TEST CODE 524U

| | | | | |
|---|---|---|---|---|
| 2991 | Toluene | 0.5 | U | 0.5 |
| 2992 | Ethylbenzene | 0.5 | U | 0.5 |
| 2993 | Bromobenzene | 0.5 | U | 0.5 |
| 2995 | meta-Xylene | 0.5 | U | 0.5 |
| 2996 | Styrene | 0.5 | U | 0.5 |
| 2997 | ortho Xylene | 0.5 | U | 0.5 |

ORLANDO LABORATORIES,INC. REPORT OF ANALYSIS Work Order # 90-02-114
Received: 02/08/90 Results by Sample

SAMPLE ID Method Blank SAMPLE# 03A
DATE COLLECTED not specified MATRIX METHOD BLANK
TEST NAME DER 17-550 Unreg Pest 531s TEST CODE 531U

SAMPLE TYPE WATER DATE EXTRACTED NA
UNITS ug/l DATE RUN 02/09/90
ANALYST JAB DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-531
UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PWS035)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2047 | Aldicarb | 2.0 | U | 2 |
| 2043 | Aldicarb Sulfoxide | 2.0 | U | 2 |
| 2044 | Aldicarb Sulfone | 2.0 | U | 2 |
| 2046 | Carbofuran | 1.5 | U | 1.5 |
| 2036 | Oxymyl (Vydate) | 1.0 | U | 1 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-114

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME DER 17-550 Reg. Pest 608s

SAMPLE# 03A
MATRIX METHOD BLANK
TEST CODE 608R

DATE EXTRACTED 02/08/90
DATE RUN 02/12/90
DILUTION FACTOR 1
% MOISTURE NA

SAMPLE TYPE WATER
UNITS ug/l
ANALYST RAB

METHOD EPA-608
ORGANIC CHEMICAL ANALYSIS
17-550.310(2)(a)
(PW3029)

| Parameter ID | Name | Analysis Result | | Det. Lt. Used |
|---|---|---|---|---|
| 2005 | Endrin | 0.10 | U | 0.10 |
| 2010 | Lindane | 0.05 | U | 0.05 |
| 2015 | Methoxychlor | 0.50 | U | 0.50 |
| 2020 | Toxaphene | 1.00 | U | 1.00 |

ORLANDO LABORATORIES, INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-114

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME DER 17-550 Unreg Pest 608s

SAMPLE# 03A
MATRIX METHOD BLANK
TEST CODE 608U

SAMPLE TYPE WATER
UNITS ug/l
ANALYST RAB

DATE EXTRACTED 02/08/90
DATE RUN 02/12/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-608
UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PWS035)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2065 | Heptachlor | 0.05 | U | 0.05 |
| 2356 | Aldrin | 0.05 | U | 0.05 |
| 2364 | Dieldrin | 0.10 | U | 0.10 |
| 2959 | Chlordane | 0.50 | U | 0.50 |

UNREGULATED BASE NEUTRAL EXTRACTABLE ANALYSIS
17-550.410(3)
(PWS036)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2388 | PCB-1016 | 0.50 | U | 0.5 |
| 2390 | PCB-1221 | 0.50 | U | 0.5 |
| 2392 | PCB-1232 | 0.50 | U | 0.5 |
| 2394 | PCB-1242 | 0.50 | U | 0.5 |
| 2396 | PCB-1248 | 0.50 | U | 0.5 |
| 2398 | PCB-1254 | 1.00 | U | 1.0 |
| 2400 | PCB-1260 | 1.00 | U | 1.0 |

ORLANDO LABORATORIES, INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-114

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME DER 17-550 Reg. Herb 615

SAMPLE# 03A
MATRIX METHOD BLANK
TEST CODE 615R

SAMPLE TYPE WATER
UNITS ug/l
ANALYST RAB

DATE EXTRACTED 02/13/90
DATE RUN 02/16/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-615
ORGANIC CHEMICAL ANALYSIS
17-550.310(2)(b)
(PWS029)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 2105 | 2,4-D | 2.0 U | 2 |
| 2110 | 2,4,5-TP (Silvex) | 1.0 U | 1 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-114

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME DER 17-550 Unreg Pest 515a

SAMPLE# 03A
MATRIX METHOD BLANK
TEST CODE 615U

SAMPLE TYPE WATER
UNITS ug/l
ANALYST RAB

DATE EXTRACTED 02/13/90
DATE RUN 02/16/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-515.1
UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PWS035)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 2031 | Dalapon | 1.0 U | 1 |
| 2040 | Picloram | 1.0 U | 1 |
| 2041 | Dinoseb | 2.0 U | 2 |
| 2440 | Dicamba | 2.0 U | 2 |

ORLANDO LABORATORIES, INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-114

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME DER 17-550 Unreg Pest 622s

SAMPLE# 03A
MATRIX METHOD BLANK
TEST CODE 622U

SAMPLE TYPE WATER
UNITS ug/l
ANALYST JHW

DATE EXTRACTED 02/08/90
DATE RUN 02/12/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-622
UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PWS035)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2037 | Simazine | 0.5 | U | 0.5 |
| 2045 | Metolachlor | 0.5 | U | 0.5 |
| 2050 | Atrazine | 0.5 | U | 0.5 |
| 2051 | Alachlor (Lasso) | 0.5 | U | 0.5 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-114

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME OER 17-550 Unreg BNAs/Pest

SAMPLE# 03A
MATRIX METHOD BLANK
TEST CODE 625U

SAMPLE TYPE WATER
UNITS ug/l
ANALYST EJP

DATE EXTRACTED 2/12/90
DATE RUN 2/18/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-625
UNREGULATED BASE NEUTRAL EXTRACTABLE ANALYSIS
17-550.410(3)
(PWS036)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 2262 | Isophorone | 10 U | 10 |
| 2378 | 1,2,4-Trichlorobenzene | 10 U | 10 |
| 2042 | Hexachlorocyclo pentadiene | 10 U | 10 |
| 2282 | Dimethylphthalate | 10 U | 10 |
| 2270 | 2,4-Dinitrotoluene | 10 U | 10 |
| 2284 | Diethylphthalate | 10 U | 10 |
| 2290 | Di-n-butyl phthalate | 10 U | 10 |
| 2294 | Butyl Benzyl Phthalate | 10 U | 10 |
| 2298 | Bis(2-Ethylhexyl) phthalate | 10 U | 10 |
| 9089 | Dioctylphthalate | 10 U | 10 |
| 2063 | 2,3,7,8-TCDD (Dioxin) | 1000 U | 1000 |

UNREGULATED ACID EXTRACTABLE ANALYSIS
17-550.410(4)
(PWS037)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 9108 | 2-Chlorophenol | 10 U | 10 |
| 9112 | 2-Methyl-4,6-Dinitro phenol | 50 U | 50 |
| 9115 | Phenol | 10 U | 10 |
| 9116 | 2,4,6-Trichlorophenol | 10 U | 10 |

UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PWS035)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 2326 | Pentachlorophenol | 50 U | 50 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
NonReported Work

Work Order # 90-02-114

FRACTION AND TEST CODES FOR WORK NOT REPORTED ELSEWHERE

| | | |
|---|---|---|
| 01A | 1 | NOTEST |
| 02A | 1 | NOTEST |

Spring Hill Utilities
Attn: Rick Leach

Report No: 90-02-114
Page No: 36

## QUALITY CONTROL DATA SHEET

| PARAMETER | DUPLICATES % DIFFERENCE | SPIKES % RECOVERY | DATE | ANALYST |
|---|---|---|---|---|
| Barium | <1 | 99 | 02/14/90 | BB |
| Sodium | 1 | 106 | 02/14/90 | BB |
| Iron | <1 | 101 | 02/14/90 | BB |
| Manganese | <1 | 100 | 02/14/90 | BB |
| Zinc | <1 | 104 | 02/14/90 | BB |
| Calcium | 1 | 103 | 02/14/90 | BB |
| Lead | 1 | 91 | 02/14/90 | JC |
| Arsenic | <1 | 92 | 02/14/90 | CFG |
| Silver | <1 | 100 | 02/14/90 | CFG |
| Mercury | 2 | 109 | 02/13/90 | EM |
| Selenium | <1 | 92 | 02/14/90 | CFG |
| Cadmium | <1 | 104 | 02/14/90 | CFG |
| Chromium | 7 | 102 | 02/15/90 | CJP |
| Copper | <1 | 97 | 02/15/90 | CFG |
| Color | <1 | N/A | 02/09/90 | DR |
| Odor | <1 | N/A | 02/09/90 | DR |
| Nitrogen, Nitrite | <1 | 88 | 02/10/90 | DB |
| Turbidity | <1 | N/A | 02/09/90 | DR |
| pH | 1 | N/A | 02/09/90 | DA |
| Total Alkalinity | 6 | 118 | 02/09/90 | DA |
| Chloride | 5 | 105/110 | 02/12/90 | DA |
| Sulfate | 4 | 112 | 02/13/90 | SRK |
| TDS | 2 | 94/96 | 02/13/90 | DB |
| Fluoride | 4 | 107/103 | 02/12/90 | DA |
| Nitrogen, Nitrate | <1 | 99 | 02/13/90 | DR |
| MBAS | <1 | 92 | 02/10/90 | DR |
| Gross Alpha | 0.0 | 91 | 02/27/90 | JAB |

Note: The duplicate for Gross Alpha is reported as actual difference rather than percent difference as specified.

ORLANDO LABORATORIES INC.

GC/MS VOLATILE ORGANICS 

## MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 02-10-1990

LAB SAMPLE # : 9002118-1
ANALYSIS DATE : 2/10/90

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| 1,1-dichloroethene | 50 | 0 | 56 | 112 | 53 | 106 | 6 |
| trichloroethene | 50 | 0 | 51 | 102 | 49 | 98 | 4 |
| benzene | 50 | 0 | 55 | 110 | 46 | 92 | 18 * |
| toluene | 50 | 0 | 58 | 116 | 53 | 106 | 9 |
| chlorobenzene | 50 | 0 | 50 | 100 | 49 | 98 | 2 |

COMMENTS : * = parameter outside QC limits.

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| 1,1-dichloroethene | 61 | 145 | 14 | 59 | 172 | 22 |
| trichloroethene | 71 | 120 | 14 | 62 | 137 | 24 |
| benzene | 76 | 127 | 11 | 66 | 142 | 21 |
| toluene | 76 | 125 | 13 | 59 | 139 | 21 |
| chlorobenzene | 75 | 130 | 13 | 60 | 133 | 21 |

ORLANDO LABORATORIES INC.

GC/MS SEMI-VOLATILE ORGANICS  Page No: 38

## MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 02-23-1990

LAB SAMPLE # : 90-02-144-1
ANALYSIS DATE : 2/22/90

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| phenol | 200 | 0 | 125 | 63 | 119 | 60 | 5 |
| 2-chlorophenol | 200 | 0 | 186 | 93 | 186 | 93 | 0 |
| 4-chloro-3-methylphenol | 200 | 0 | 132 | 66 | 126 | 63 | 5 |
| 4-nitrophenol | 200 | 0 | 184 | 92 * | 170 | 85 | 8 |
| pentachlorophenol | 200 | 0 | 246 | 123 * | 235 | 118 * | 5 |
| 1,4-dichlorobenzene | 100 | 0 | 103 | 103 * | 99 | 99 * | 4 |
| n-nitroso-di-n-propylamine | 100 | 0 | 142 | 142 * | 133 | 133 * | 7 |
| 1,2,4-trichlorobenzene | 100 | 0 | 101 | 101 * | 94 | 94 | 7 |
| acenaphthene | 100 | 0 | 121 | 121 * | 114 | 114 | 6 |
| 2,4-dinitrotoluene | 100 | 0 | 131 | 131 * | 127 | 127 * | 3 |
| pyrene | 100 | 0 | 103 | 103 | 96 | 96 | 7 |

COMMENTS : * = parameter outside QC limits.

### MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| phenol | 12 | 89 | 42 | 26 | 90 | 35 |
| 2-chlorophenol | 27 | 123 | 40 | 25 | 102 | 50 |
| 4-chloro-3-methylphenol | 23 | 97 | 42 | 26 | 103 | 33 |
| 4-nitrophenol | 10 | 90 | 50 | 11 | 114 | 50 |
| pentachlorophenol | 25 | 103 | 50 | 17 | 109 | 47 |
| 1,4-dichlorobenzene | 36 | 97 | 28 | 28 | 104 | 27 |
| n-nitroso-di-n-propylamine | 41 | 116 | 38 | 41 | 126 | 38 |
| 1,2,4-trichlorobenzene | 39 | 98 | 28 | 38 | 107 | 23 |
| acenaphthene | 46 | 118 | 31 | 31 | 137 | 19 |
| 2,4-dinitrotoluene | 24 | 102 | 38 | 28 | 95 | 47 |
| pyrene | 26 | 127 | 31 | 35 | 142 | 36 |

ORLANDO LABORATORIES, INC.



# MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 02-19-1990

LAB SAMPLE # : 9002115-01A
ANALYSIS DATE : 02/16/90

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| DALAPON | 100 | 0 | 125 | 125 | 132 | 132 | 5 |
| 2,4,5-TP (SILVEX) | 100 | 0 | 99 | 99 | 108 | 108 | 9 |
| PICLORAM | 100 | 0 | 104 | 104 | 108 | 108 | 4 |

COMMENTS :

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| DALAPON | 95 | 175 | 20 | 95 | 175 | 20 |
| 2,4,5-TP (SILVEX) | 95 | 175 | 20 | 95 | 175 | 20 |
| PICLORAM | 95 | 175 | 20 | 95 | 175 | 20 |

ORLANDO LABORATORIES, INC.

GC ORGANICS



# MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 02-15-1990

LAB SAMPLE # : 9002115-01A
ANALYSIS DATE : 02/09/90

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| ALDICARB | 100 | 0 | 102 | 102 | 94 | 94 | 8 |

COMMENTS :

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| ALDICARB | 77 | 127 | 28 | 72 | 132 | 28 |

ORLANDO LABORATORIES, INC.

GC ORGANICS



# MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 02-14-1990

LAB SAMPLE # : 9002100-01A
ANALYSIS DATE : 02/12/90

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| GAMMA-BHC (LINDANE) | 100 | 0 | 117 | 117 | 122 | 122 | 4 |
| HEPTACHLOR | 100 | 0 | 97 | 97 | 90 | 90 | 7 |
| ALDRIN | 100 | 0 | 129 | 129 | 130 | 130 * | 0 |
| DIELDRIN | 200 | 0 | 229 | 115 | 216 | 116 | 5 |
| ENDRIN | 100 | 0 | 113 | 113 | 112 | 112 | 1 |
| 4,4-DDT | 100 | 0 | 64 | 64 | 56 | 54 | 17 |

COMMENTS : * = parameter outside QC limits.

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| GAMMA-BHC (LINDANE) | 56 | 123 | 15 | 46 | 127 | 50 |
| HEPTACHLOR | 60 | 131 | 20 | 35 | 130 | 31 |
| ALDRIN | 40 | 120 | 22 | 34 | 132 | 43 |
| DIELDRIN | 52 | 126 | 18 | 31 | 134 | 38 |
| ENDRIN | 56 | 121 | 21 | 42 | 139 | 45 |
| 4,4-DDT | 38 | 127 | 27 | 23 | 134 | 56 |

ORLANDO LABORATORIES, INC.



# MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 02-13-1990

LAB SAMPLE # : 9002085-01A
ANALYSIS DATE : 02/12/90

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| diazinon | 100 | 8 | 93 | 93 | 96 | 96 | 3 |

COMMENTS :

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| diazinon | 47 | 147 | 18 | 38 | 174 | 26 |

ORLANDO LABORATORIES, INC.

GC ORGANICS



# MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 02-13-1990

LAB SAMPLE # : 9002084-01A
ANALYSIS DATE : 02/12/90

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| ETHYLENE DIBROMIDE | 100 | 0 | 59 | 59 | 59 | 59 | 0 |

COMMENTS :

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| ETHYLENE DIBROMIDE | 34 | 92 | 20 | 45 | 90 | 20 |

End of Report

0373

№ 03428

ORLANDO LABORATORIES, INC.
P.O. Box 149127, Orlando FL 32814
(407) 896-6645 FAX (407) 896-6588

# CHAIN-OF-CUSTODY RECORD

(INSTRUCTIONS ON BACK)

Page ____ of ____

| | | |
|---|---|---|
| 1 INVOICE TO (COMPANY AND INDIVIDUAL): Spring Hill Utilities — ADDRESS (CITY, STATE, ZIP): 9500 Eldridge Rd Spring Hill 34608 | 2 CONTACT PERSON/PHONE # INVOICE: 904 683 2715 | 3 OLI WORK ORDER # (LAB USE): 9002114 |
| 4 ORIGINAL REPORT TO (COMPANY AND INDIVIDUAL): SAME — ADDRESS (CITY, STATE, ZIP): SAME | 5 CONTACT PERSON/PHONE # REPORT | 6 PO NUMBER (LAB USE): 560 |
| 7 (OPTIONAL) ADDITIONAL REPORTS SENT TO. — ADDRESS (CITY, STATE, ZIP) | | |
| 8 CLIENT PROJECT NAME: Unit 19 Lillian | 9 CLIENT PROJECT #: 6271696 | |

| 10 SAMPLE IDENTIFICATION | 11 DATE/TIME | 12 COMP | GRAB | WATER | SOIL | OTHER | 13 SAMPLE DESCRIPTION | 17 NUMBER OF CONTAINERS | 18 REQUESTED ANALYSIS | 19 REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| Unit 19 | 2-7-90 2pm | | X | | | | Hex Waste Kit | 1/2 | | |

| TRANSFER NUMBER | 14 RELINQUISHED BY | 15 DATE/TIME | 16 ACCEPTED BY |
|---|---|---|---|
| 1st | [illegible] | 2-8-90 10:30 | [illegible] |
| 2nd | | | |
| 3rd | | | |

20 ADDITIONAL REMARKS

21 COOLER #'s: 182

22 SAMPLER'S SIGNATURE: [signature]

ORIGINAL - LAB
YELLOW - FILE
PINK - CLIENT

ORLANDO LABORATORIES INC.
P.O. Box 149127 • Orlando, Florida 32814 • (407) 896-6645

REPORT OF ANALYSIS

Spring Hill Utilities
9500 Eldridge Road
Spring Hill, FL 34608

Attn: Rick Leach

Work Order # : 90-02-117
Date Received: 02/08/90
Date Reported: 03/01/90
OLI Contact: E_HOBBS

Work ID: 6271696 Unit 13 Antelope
Total Samples: 2

Sampling information is based on data supplied by Rick Leach

| SAMPLE IDENTIFICATION | TEST CODES and NAMES used on this report |
|---|---|
| 01 Unit 13 | 501R 17-550 Trihalomethanes |
| 02 Method Blank | 504R 17-550 "EDB" Analysis |
| | 504U 17-550 "DBCP" Analysis |
| | 524R DER 17-550 Regulated VOA's |
| | 524U DER 17-550 Unregulated VOA |
| | 531U DER 17-550 Unreg Pest 531s |
| | 608R DER 17-550 Reg. Pest 608s |
| | 608U DER 17-550 Unreg Pest 608s |
| | 615R DER 17-550 Reg. Herb 615 |
| | 615U DER 17-550 Unreg Pest 515s |
| | 622U DER 17-550 Unreg Pest 622s |
| | 625U DER 17-550 Unreg BNAs/Pest |
| | DERBCT 17-550 Total Coliform Bact |
| | DERPDM 17-550 Primary Metals Only |
| | DERPDW 17-550 Primary WetChem |
| | DERSDM DER 17-5 Secondary Metals |
| | DERSDW DER 17-5 Secondary Wet Chm |
| | DERTRB 17-550 Turbidity Analysis |
| | DER_GA Gross Alpha (water)17-550 |

Total Coliform: Set date 02/08/90 at 1500 hours
Read date 02/09/90 at 1500 hours

OLI Florida Department of Health & Rehabilitative Service Identification Numbers are:
Drinking Water Certification Number 83141, Environmental Certification Number E83033

Respectfully Submitted,
ORLANDO LABORATORIES, INC.

Acting
LABORATORY DIRECTOR

Eric Halarek
QUALITY CONTROL

*The Analytical Specialists*

ORLANDO LABORATORIES, INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-117

SAMPLE ID Unit 13
DATE COLLECTED 02/07/90 13:50:00
TEST NAME 17-550 "EDB" Analysis

SAMPLE# 010
MATRIX WATER
TEST CODE 504R

SAMPLE TYPE WATER
UNITS ug/l
ANALYST JAB

DATE EXTRACTED 02/08/90
DATE RUN 02/12/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA 504
VOLATILE ORGANIC ANALYSIS
17-550.310(2)(D)
(FW5028)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 2946 | Ethylene dibromide | 0.02 U | 0.02 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-117

SAMPLE ID Unit 13
DATE COLLECTED 02/07/90 13:50:00
TEST NAME 17-550 "DBCP" Analysis

SAMPLE# 01A
MATRIX WATER
TEST CODE 5040

SAMPLE TYPE WATER
UNITS UG/L
ANALYST JAB

DATE EXTRACTED 02/08/90
DATE RUN 02/12/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-504
UNREGULATED ORGANIC PURGEABLE ANALYSIS
17-550.410(1)
(PWS034)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 2931 | 1,2-dibromo-3-chloro propane | 0.02 U | 0.02 |

ORLANDO LABORATORIES, INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-117

SAMPLE ID Unit 13
DATE COLLECTED 02/07/90 13:50:00
TEST NAME DER 17-550 Regulated VOA's

SAMPLE# 010
MATRIX WATER
TEST CODE 524R

SAMPLE TYPE WATER
UNITS UG/L
ANALYST EJP

DATE EXTRACTED NA
DATE RUN 2/10/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-524
VOLATILE ORGANIC ANALYSIS
17-550.310(2)(d)
(FWS028)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2969 | p-Dichlorobenzene | 0.5 | U | 0.5 |
| 2976 | Vinyl Chloride | 0.5 | U | 0.5 |
| 2977 | 1,1-Dichloroethene | 0.5 | U | 0.5 |
| 2980 | 1,2-Dichloroethane | 0.5 | U | 0.5 |
| 2981 | 1,1,1-Trichloroethane | 0.5 | U | 0.5 |
| 2982 | Carbon Tetrachloride | 0.5 | U | 0.5 |
| 2984 | Trichloroethene | 0.5 | U | 0.5 |
| 2987 | Tetrachloroethene | 0.5 | U | 0.5 |
| 2990 | Benzene | 0.5 | U | 0.5 |

ORLANDO LABORATORIES, INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-117

SAMPLE ID Unit 13
DATE COLLECTED 02/07/90 13:50:00
TEST NAME DER 17-550 Unregulated VOA

SAMPLE# 010
MATRIX WATER
TEST CODE 524U

SAMPLE TYPE WATER
UNITS UG/L
ANALYST EJP

DATE EXTRACTED NA
DATE RUN 2/19/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-524
UNREGULATED ORGANIC PURGEABLE ANALYSIS
17-550.410(1)
(PWS034)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2210 | Chloromethane | 0.5 | U | 0.5 |
| 2212 | Dichlorodifluoromethane | 0.5 | U | 0.5 |
| 2214 | Bromomethane | 0.5 | U | 0.5 |
| 2216 | Chloroethane | 0.5 | U | 0.5 |
| 2218 | Trichlorofluoromethane | 0.5 | U | 0.5 |
| 2224 | trans-1,3-Dichloro propene | 0.5 | U | 0.5 |
| 2228 | cis-1,3-Dichloropropene | 0.5 | U | 0.5 |
| 2251 | Methyl tert-butyl-ether | 0.5 | U | 0.5 |
| 2380 | cis-1,2-Dichloroethene | 0.5 | U | 0.5 |
| 2408 | Dibromomethane | 0.5 | U | 0.5 |
| 2410 | 1,1-Dichloropropene | 0.5 | U | 0.5 |
| 2412 | 1,3-Dichloropropane | 0.5 | U | 0.5 |
| 2414 | 1,2,3-Trichloropropane | 0.5 | U | 0.5 |
| 2416 | 2,2-Dichloropropane | 0.5 | U | 0.5 |
| 2941 | Chloroform | 0.5 | U | 0.5 |
| 2942 | Bromoform | 0.5 | U | 0.5 |
| 2943 | Bromodichloromethane | 0.5 | U | 0.5 |
| 2944 | Dibromochloromethane | 0.5 | U | 0.5 |
| 2962 | para-Xylene | 0.5 | U | 0.5 |
| 2964 | Methylene Chloride | 0.5 | U | 0.5 |
| 2965 | o-Chlorotoluene | 0.5 | U | 0.5 |
| 2966 | p-Chlorotoluene | 0.5 | U | 0.5 |
| 2967 | meta-Dichlorobenzene | 0.5 | U | 0.5 |
| 2968 | Ortho-Dichlorobenzene | 0.5 | U | 0.5 |
| 2978 | 1,1-Dichloroethane | 0.5 | U | 0.5 |
| 2979 | trans-1,2-Dichloroethene | 0.5 | U | 0.5 |
| 2983 | 1,2-Dichloropropane | 0.5 | U | 0.5 |
| 2985 | 1,1,2-Trichloroethane | 0.5 | U | 0.5 |
| 2986 | 1,1,1,2-Tetrachloro ethane | 0.5 | U | 0.5 |
| 2988 | 1,1,2,2-Tetrachloro ethane | 0.5 | U | 0.5 |
| 2989 | Chlorobenzene | 0.5 | U | 0.5 |

ORLANDO LABORATORIES, INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-117
Continued From Above

SAMPLE ID Unit 13
DATE COLLECTED 02/07/90 13:50:00
TEST NAME DER 17-550 Unregulated VOA

SAMPLE# 010
MATRIX WATER
TEST CODE 524U

| | | | | |
|---|---|---|---|---|
| 2991 | Toluene | 0.5 | U | 0.5 |
| 2992 | Ethylbenzene | 0.5 | U | 0.5 |
| 2993 | Bromobenzene | 0.5 | U | 0.5 |
| 2995 | meta-Xylene | 0.5 | U | 0.5 |
| 2996 | Styrene | 0.5 | U | 0.5 |
| 2997 | ortho Xylene | 0.5 | U | 0.5 |

ORLANDO LABORATORIES, INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-0[illegible]117

SAMPLE ID Unit 13
DATE COLLECTED 02/07/90 13:50:00
TEST NAME DER 17-550 Unreg Pest 531s

SAMPLE# 010
MATRIX WATER
TEST CODE 531U

SAMPLE TYPE WATER
UNITS ug/l
ANALYST JAB

DATE EXPIRED NA
DATE RUN 02/09/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-531
UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PW3035)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2047 | Aldicarb | 2.0 | U | 2 |
| 2043 | Aldicarb Sulfoxide | 2.0 | U | 2 |
| 2044 | Aldicarb Sulfone | 2.0 | U | 2 |
| 2046 | Carbofuran | 1.5 | U | 1.5 |
| 2036 | Oxymyl (Vydate) | 1.0 | U | 1 |

ORLANDO LABORATORIES, INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02 117

SAMPLE ID Unit 13
DATE COLLECTED 02/07/90 13:50:00
TEST NAME DER 17-550 Reg. Pest 608s

SAMPLE# 010
MATRIX WATER
TEST CODE 608R

SAMPLE TYPE WATER
UNITS ug/l
ANALYST RAB

DATE EXTRACTED 02/13/90
DATE RUN 02/14/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-608
ORGANIC CHEMICAL ANALYSIS
17-550.310(2)(a)
(PWS029)

| Parameter ID | Name | Analysis Result | | Det. Lt. Used |
|---|---|---|---|---|
| 2005 | Endrin | 0.10 | U | 0.10 |
| 2010 | Lindane | 0.05 | U | 0.05 |
| 2015 | Methoxychlor | 0.50 | U | 0.50 |
| 2020 | Toxaphene | 1.00 | U | 1.00 |

ORLANDO LABORATORIES,INC. REPORT OF ANALYSIS Work Order # 90-02 117
Received: 02/08/90 Results by Sample

SAMPLE ID Unit 13 SAMPLE# 01A
DATE COLLECTED 02/07/90 13:50:00 MATRIX WATER
TEST NAME DER 17-550 Unreg Pest 608s TEST CODE 6090

SAMPLE TYPE WATER DATE EXTRACTED 02/13/90
UNITS ug/l DATE RUN 02/14/90
ANALYST RAB DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-608
UNREGULAIED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PWS035)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 2065 | Heptachlor | 0.05 U | 0.05 |
| 2356 | Aldrin | 0.05 U | 0.05 |
| 2364 | Dieldrin | 0.10 U | 0.10 |
| 2959 | Chlordane | 0.50 U | 0.50 |

UNREGULATED BASE NEUTRAL EXTRACTABLE ANALYSIS
17-550.410(3)
(PWS036)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 2388 | PCB-1016 | 0.50 U | 0.5 |
| 2390 | PCB-1221 | 0.50 U | 0.5 |
| 2392 | PCB-1232 | 0.50 U | 0.5 |
| 2394 | PCB-1242 | 0.50 U | 0.5 |
| 2396 | PCB-1248 | 0.50 U | 0.5 |
| 2398 | PCB-1254 | 1.00 U | 1.0 |
| 2400 | PCB-1260 | 1.00 U | 1.0 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-117

SAMPLE ID Unit 13
DATE COLLECTED 02/07/90 13:50:00
TEST NAME DER 17-550 Reg. Herb 615

SAMPLE# 01A
MATRIX WATER
TEST CODE 615R

SAMPLE TYPE WATER
UNITS ug/l
ANALYST RAB

DATE EXTRACTED 02/13/90
DATE RUN 02/16/90
DILUTION FACTOR 5
% MOISTURE NA

METHOD EPA-615
ORGANIC CHEMICAL ANALYSIS
17-550.310(2)(b)
(PWS029)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 2105 | 2,4-D | 10 U | 10 |
| 2110 | 2,4,5-TP (Silvex) | 5 U | 5 |

ORLANDO LABORATORIES, INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-07 117

SAMPLE ID Unit 13
DATE COLLECTED 02/07/90 13:50:00
TEST NAME DER 17-550 Unreg Pest 515s

SAMPLE# 01A
MATRIX WATER
TEST CODE 6150

SAMPLE TYPE WATER
UNITS ug/l
ANALYST RAB

DATE EXTRACTED 02/13/90
DATE RUN 02/16/90
DILUTION FACTOR 5
% MOISTURE NA

METHOD EPA-515.1
UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PWS035)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 2031 | Dalapon | 5 U | 5 |
| 2040 | Picloram | 5 U | 5 |
| 2041 | Dinoseb | 10 U | 10 |
| 2440 | Dicamba | 10 U | 10 |

ORLANDO LABORATORIES, INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-117

SAMPLE ID Unit 13
DATE COLLECTED 02/07/90 13:50:00
TEST NAME UER 17-550 Unreg Pest 622s

SAMPLE# 01A
MATRIX WATER
TEST CODE 6220

SAMPLE TYPE WATER
UNITS ug/l
ANALYST JHW

DATE EXTRACTED 02/08/90
DATE RUN 02/12/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-622
UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PW3035)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2037 | Simazine | 0.5 | U | 0.5 |
| 2045 | Metolachlor | 0.5 | U | 0.5 |
| 2050 | Atrazine | 0.5 | U | 0.5 |
| 2051 | Alachlor (Lasso) | 0.5 | U | 0.5 |

ORLANDO LABORATORIES,INC. REPORT OF ANALYSIS Work Order # 90-02 117
Received: 02/08/90 Results by Sample

SAMPLE ID Unit 13 SAMPLE# 016
DATE COLLECTED 02/07/90 13:50:00 MATRIX WATER
TEST NAME DER 17-550 Unreg BNAs/Pest TEST CODE 6250

SAMPLE TYPE WATER DATE EXTRACTED 2/12/90
UNITS ug/l DATE RUN 2/22/90
ANALYST EJP DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-625
UNREGULATED BASE NEUTRAL EXTRACTABLE ANALYSIS
17-550.410(3)
(PWS036)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2262 | Isophorone | 10 | U | 10 |
| 2378 | 1,2,4-Trichlorobenzene | 10 | U | 10 |
| 2042 | Hexachlorocyclo pentadiene | 10 | U | 10 |
| 2282 | Dimethylphthalate | 10 | U | 10 |
| 2270 | 2,4-Dinitrotoluene | 10 | U | 10 |
| 2284 | Diethylphthalate | 10 | U | 10 |
| 2290 | Di-n-butyl phthalate | 10 | U | 10 |
| 2294 | Butyl Benzyl Phthalate | 10 | U | 10 |
| 2298 | Bis(2-Ethylhexyl) phthalate | 10 | U | 10 |
| 9089 | Dioctylphthalate | 10 | U | 10 |
| 2063 | 2,3,7,8-TCDD (Dioxin) | 1000 | U | 1000 |

UNREGULATED ACID EXTRACTABLE ANALYSIS
17-550.410(4)
(PWS037)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 9108 | 2-Chlorophenol | 10 | U | 10 |
| 9112 | 2-Methyl-4,6-Dinitro phenol | 50 | U | 50 |
| 9115 | Phenol | 10 | U | 10 |
| 9116 | 2,4,6-Trichlorophenol | 10 | U | 10 |

UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PWS035)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2326 | Pentachlorophenol | 50 | U | 50 |

URLANDO LABORATORIES, INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-117

SAMPLE ID Unit 13
DATE COLLECTED 02/07/90 13:50:00
TEST NAME 17-550 Total Coliform Bact

SAMPLE# 01A
MATRIX WATER
TEST CODE UERB.1

MICROBIOLOGICAL ANALYSIS
17-550.640

| Parameter ID | Name | Analysis Result (Cfu's/100ml) | Analytical Method |
|---|---|---|---|
| 3000 | Total Coliform | <1/L | EPA Part III B |

Date Set Up: 02/08/90
Date Read : 02/09/90

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-117

SAMPLE ID Unit 13
DATE COLLECTED 02/07/90 13:50:00
TEST NAME 17-550 Primary Metals Only

SAMPLE# 01A
MATRIX WATER
TEST CODE ULRFUM

(METALS)
INORGANIC ANALYSIS
17-550.310(1)
(PWS030)

| Parameter ID | Name | Analysis Result(mg/l) | Method | Det.Lt. (mg/l) | Analysis Date |
|---|---|---|---|---|---|
| 1005 | Arsenic | <0.010 | EPA206.2 | 0.010 | 02/14/90 |
| 1010 | Barium | <0.100 | EPA200.7 | 0.100 | 02/14/90 |
| 1015 | Cadmium | <0.005 | EPA213.2 | 0.005 | 02/14/90 |
| 1020 | Chromium | <0.010 | EPA218.2 | 0.010 | 02/15/90 |
| 1030 | Lead | <0.010 | EPA239.2 | 0.010 | 02/14/90 |
| 1035 | Mercury | <0.0005 | EPA245.1 | 0.0005 | 02/13/90 |
| 1045 | Selenium | <0.005 | EPA270.2 | 0.005 | 02/14/90 |
| 1050 | Silver | <0.010 | EPA272.2 | 0.010 | 02/14/90 |
| 1052 | Sodium | 4.79 | EPA200.7 | 0.001 | 02/14/90 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90 02-117

SAMPLE ID Unit 13
DATE COLLECTED 02/07/90 13:50:00
TEST NAME 17-550 Primary WetChem

SAMPLE# 010
MATRIX WATER
TEST CODE DERPUN

WET CHEMISTRY
SECONDARY CHEMICAL ANALYSIS
17-550.310(1)
(PWS030)

| Parameter ID | Name | Analysis Result (mg/l) | Meth. # | Det.Lt. (mg/l) | Analysis Date |
|---|---|---|---|---|---|
| 1025 | Fluoride | <0.1 | EPA340.2 | 0.1 | 02/13/90 |
| 1040 | Nitrate (as N) | 0.61 | EPA353.2 | 0.05 | 02/13/90 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-117

SAMPLE ID Unit 13
DATE COLLECTED 02/07/90 13:50:00
TEST NAME DER 17-5 Secondary Metals

SAMPLE# 01A
MATRIX WATER
TEST CODE DERSDM

(METALS)
SECONDARY CHEMICAL ANALYSIS
17-550.320
(PWS031)

| Parameter ID | Name | Analysis Result(mg/l) | Method | Det.Lt. (mg/l) | Analysis Date |
|---|---|---|---|---|---|
| 1022 | Copper | <0.010 | EPA200.7 | 0.010 | 02/15/90 |
| 1028 | Iron | <0.100 | EPA200.7 | 0.1 | 02/14/90 |
| 1032 | Manganese | <0.050 | EPA200.7 | 0.050 | 02/14/90 |
| 1095 | Zinc | <0.050 | EPA200.7 | 0.050 | 02/14/90 |
| 1919 | Calcium Hardness | 105 | EPA200.7 | 2.5 | 02/14/90 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02 117

SAMPLE ID Unit 13
DATE COLLECTED 02/07/90 13:50:00
TEST NAME DER 17-5 Secondary Wet Chm

SAMPLE# 01A
MATRIX WATER
TEST CODE DER5GW

WET CHEMISTRY
SECONDARY CHEMICAL ANALYSIS
17-550.320
(PWS031)

| Parameter ID | Name | Analysis Result(mg/l) | Method | Det.Lt. (mg/l) | Analysis Date |
|---|---|---|---|---|---|
| 1017 | Chloride | 4.0 | SM 407 | 1.0 | 02/12/90 |
| 1025 | Fluoride | <0.1 | EPA340.2 | 0.1 | 02/13/90 |
| 1055 | Sulfate | 5.6 | EPA375.4 | 1.0 | 02/13/90 |
| 1901 | Carbon Dioxide | <1.0 | SM 406 C | 1.0 | 02/15/90 |
| 1905 | Color | <5 | SM 204 A | 5PCU | 02/09/90 |
| 1920 | Odor Threshold | 1 | EPA140.1 | 1TON | 02/09/90 |
| 1927 | Total Alkalinity | 100 | EPA310.1 | 2.0 | 02/09/90 |
| 1930 | Total Dissolved Solids | 180 | EPA160.1 | 1.0 | 02/13/90 |
| 1931 | Phenolphthalein Alk | <2.0 | EPA310.1 | 2.0 | 02/09/90 |
| 1997 | Langelier Index pHs | 7.91 | CALC. | N/A | 02/15/90 |
| 1998 | Saturation Index | 0.79 | CALC. | N/A | 02/15/90 |
| 2909 | Foaming Agents | <0.1 | EPA425.1 | 0.1 | 02/10/90 |

VERIFIED BY DIA

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90 02 117

SAMPLE ID Unit 13
DATE COLLECTED 02/07/90 13:50:00
TEST NAME 17-550 Turbidity Analysis

SAMPLE # 010
MATRIX WATER
TEST CODE 0ERTRB

TURBIDITY ANALYSIS
17-550.310(3)
(PW3026)

| Parameter ID | Name | Analysis Result (NTU) | Method | Analysis Date |
|---|---|---|---|---|
| 010 | Turbidity | <1.0 | EPA180.1 | 02/01/90 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-117

SAMPLE ID Unit 13
DATE COLLECTED 02/07/90 13:50:00
TEST NAME Gross Alpha (water)17-550

SAMPLE# 01A
MATRIX WATER
TEST CODE DER GA

VERIFIED JAB

RADIOLOIGICAL ANALYSIS
17-550.310(5)
(PWS033)

| Parameter ID | Name | Analysis Result(pCi/l) | Method | Analysis Error | Analysis Date |
|---|---|---|---|---|---|
| 4002 | Gross alpha incl radon & uranium | <0.5 | EPA900.0 | 1.1 | 02/27/90 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-117

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME 17-550 Trihalomethanes

SAMPLE# 02A
MATRIX METHOD BLANK
TEST CODE 501R

SAMPLE TYPE WATER
UNITS ug/l
ANALYST EJP

DATE EXTRACTED NA
DATE RUN 2/10/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-501.2
TRIHALOMETHANE ANALYSIS
17-550.310(2)(C)
(PWS027)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2950 | TTHM | 1.0 | U | 1.0 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-117

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME 17-550 "EDB" Analysis

SAMPLE# 02A
MATRIX METHOD BLANK
TEST CODE 504R

SAMPLE TYPE WATER
UNITS ug/l
ANALYST JAB

DATE EXTRACTED 02/08/90
DATE RUN 02/12/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-504
VOLATILE ORGANIC ANALYSIS
17-550.310(2)(D)
(PWS028)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2946 | Ethylene dibromide | 0.02 | U | 0.02 |

ORLANDO LABORATORIES,INC. REPORT OF ANALYSIS Work Order # 90-02-117
Received: 02/08/90 Results by Sample

SAMPLE ID Method Blank SAMPLE# 02A
DATE COLLECTED not specified MATRIX METHOD BLANK
TEST NAME 17-550 "DBCP" Analysis TEST CODE 504U

SAMPLE TYPE WATER DATE EXTRACTED 02/08/90
UNITS UG/L DATE RUN 02/12/90
ANALYST JAB DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-504
UNREGULATED ORGANIC PURGEABLE ANALYSIS
17-550.410(1)
(PWS034)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 2931 | 1,2-dibromo-3-chloro propane | 0.02 U | 0.02 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-117

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME DER 17-550 Regulated VOA's

SAMPLE# 02A
MATRIX METHOD BLANK
TEST CODE 524R

SAMPLE TYPE WATER
UNITS UG/L
ANALYST EJP

DATE EXTRACTED NA
DATE RUN 2/10/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-524
VOLATILE ORGANIC ANALYSIS
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 2969 | p-Dichlorobenzene | 0.5 U | 0.5 |
| 2976 | Vinyl Chloride | 0.5 U | 0.5 |
| 2977 | 1,1-Dichloroethene | 0.5 U | 0.5 |
| 2980 | 1,2-Dichloroethane | 0.5 U | 0.5 |
| 2981 | 1,1,1-Trichloroethane | 0.5 U | 0.5 |
| 2982 | Carbon Tetrachloride | 0.5 U | 0.5 |
| 2984 | Trichloroethene | 0.5 U | 0.5 |
| 2987 | Tetrachloroethene | 0.5 U | 0.5 |
| 2990 | Benzene | 0.5 U | 0.5 |

ORLANDO LABORATORIES,INC. REPORT OF ANALYSIS Work Order # 90-02-117
Received: 02/08/90 Results by Sample

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME DER 17-550 Unregulated VOA

SAMPLE# 02A
MATRIX METHOD BLANK
TEST CODE 524U

SAMPLE TYPE WATER
UNITS UG/L
ANALYST EJP

DATE EXTRACTED NA
DATE RUN 2/10/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-524
UNREGULATED ORGANIC PURGEABLE ANALYSIS
17-550.410(1)
(PWS034)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2210 | Chloromethane | 0.5 | U | 0.5 |
| 2212 | Dichlorodifluoromethane | 0.5 | U | 0.5 |
| 2214 | Bromomethane | 0.5 | U | 0.5 |
| 2216 | Chloroethane | 0.5 | U | 0.5 |
| 2218 | Trichlorofluoromethane | 0.5 | U | 0.5 |
| 2224 | trans-1,3-Dichloro propene | 0.5 | U | 0.5 |
| 2228 | cis-1,3-Dichloropropene | 0.5 | U | 0.5 |
| 2251 | Methyl tert-butyl-ether | 0.5 | U | 0.5 |
| 2380 | cis-1,2-Dichloroethene | 0.5 | U | 0.5 |
| 2408 | Dibromomethane | 0.5 | U | 0.5 |
| 2410 | 1,1-Dichloropropene | 0.5 | U | 0.5 |
| 2412 | 1,3-Dichloropropane | 0.5 | U | 0.5 |
| 2414 | 1,2,3-Trichloropropane | 0.5 | U | 0.5 |
| 2416 | 2,2-Dichloropropane | 0.5 | U | 0.5 |
| 2941 | Chloroform | 0.5 | U | 0.5 |
| 2942 | Bromoform | 0.5 | U | 0.5 |
| 2943 | Bromodichloromethane | 0.5 | U | 0.5 |
| 2944 | Dibromochloromethane | 0.5 | U | 0.5 |
| 2962 | para-Xylene | 0.5 | U | 0.5 |
| 2964 | Methylene Chloride | 0.5 | U | 0.5 |
| 2965 | o-Chlorotoluene | 0.5 | U | 0.5 |
| 2966 | p-Chlorotoluene | 0.5 | U | 0.5 |
| 2967 | meta-Dichlorobenzene | 0.5 | U | 0.5 |
| 2968 | Ortho-Dichlorobenzene | 0.5 | U | 0.5 |
| 2978 | 1,1-Dichloroethane | 0.5 | U | 0.5 |
| 2979 | trans-1,2-Dichloroethene | 0.5 | U | 0.5 |
| 2983 | 1,2-Dichloropropane | 0.5 | U | 0.5 |
| 2985 | 1,1,2-Trichloroethane | 0.5 | U | 0.5 |
| 2986 | 1,1,1,2-Tetrachloro ethane | 0.5 | U | 0.5 |
| 2988 | 1,1,2,2-Tetrachloro ethane | 0.5 | U | 0.5 |
| 2989 | Chlorobenzene | 0.5 | U | 0.5 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-117
Continued From Above

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME DER 17-550 Unregulated VOA

SAMPLE# 02A
MATRIX METHOD BLANK
TEST CODE 524U

| | | | | |
|---|---|---|---|---|
| 2991 | Toluene | 0.5 | U | 0.5 |
| 2992 | Ethylbenzene | 0.5 | U | 0.5 |
| 2993 | Bromobenzene | 0.5 | U | 0.5 |
| 2995 | meta-Xylene | 0.5 | U | 0.5 |
| 2996 | Styrene | 0.5 | U | 0.5 |
| 2997 | ortho Xylene | 0.5 | U | 0.5 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-117

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME DER 17-550 Unreg Pest 531s

SAMPLE# 02A
MATRIX METHOD BLANK
TEST CODE 531U

SAMPLE TYPE WATER
UNITS ug/l
ANALYST JAB

DATE EXTRACTED NA
DATE RUN 02/09/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-531
UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PWS035)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2047 | Aldicarb | 2.0 | U | 2 |
| 2043 | Aldicarb Sulfoxide | 2.0 | U | 2 |
| 2044 | Aldicarb Sulfone | 2.0 | U | 2 |
| 2046 | Carbofuran | 1.5 | U | 1.5 |
| 2036 | Oxymyl (Vydate) | 1.0 | U | 1 |

ORLANDO LABORATORIES, INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-117

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME DER 17-550 Req. Pest 608s

SAMPLE# 02A
MATRIX METHOD BLANK
TEST CODE 608R

SAMPLE TYPE WATER
UNITS ug/l
ANALYST RAB

DATE EXTRACTED 02/13/90
DATE RUN 02/14/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-608
ORGANIC CHEMICAL ANALYSIS
17-550.310(2)(a)
(PWS029)

| Parameter ID | Name | Analysis Result | Det. Lt. Used |
|---|---|---|---|
| 2005 | Endrin | 0.10 U | 0.10 |
| 2010 | Lindane | 0.05 U | 0.05 |
| 2015 | Methoxychlor | 0.50 U | 0.50 |
| 2020 | Toxaphene | 1.00 U | 1.00 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-117

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME DER 17-550 Unreg Pest 608s

SAMPLE# 02A
MATRIX METHOD BLANK
TEST CODE 608U

SAMPLE TYPE WATER
UNITS ug/l
ANALYST RAB

DATE EXTRACTED 02/13/90
DATE RUN 02/14/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-608
UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PWS035)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2065 | Heptachlor | 0.05 | U | 0.05 |
| 2356 | Aldrin | 0.05 | U | 0.05 |
| 2364 | Dieldrin | 0.10 | U | 0.10 |
| 2959 | Chlordane | 0.50 | U | 0.50 |

UNREGULATED BASE NEUTRAL EXTRACTABLE ANALYSIS
17-550.410(3)
(PWS036)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2388 | PCB-1016 | 0.50 | U | 0.5 |
| 2390 | PCB-1221 | 0.50 | U | 0.5 |
| 2392 | PCB-1232 | 0.50 | U | 0.5 |
| 2394 | PCB-1242 | 0.50 | U | 0.5 |
| 2396 | PCB-1248 | 0.50 | U | 0.5 |
| 2398 | PCB-1254 | 1.00 | U | 1.0 |
| 2400 | PCB-1260 | 1.00 | U | 1.0 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-117

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME OER 17-550 Reg. Herb 615

SAMPLE# 02A
MATRIX METHOD BLANK
TEST CODE 615R

SAMPLE TYPE WATER
UNITS ug/l
ANALYST RAB

DATE EXTRACTED 02/13/90
DATE RUN 02/16/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-615
ORGANIC CHEMICAL ANALYSIS
17-550.310(2)(b)
(PWS029)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2105 | 2,4-D | 2.0 | U | 2 |
| 2110 | 2,4,5-TP (Silvex) | 1.0 | U | 1 |

ORLANDO LABORATORIES,INC. REPORT OF ANALYSIS Work Order # 90-02-117
Received: 02/08/90 Results by Sample

SAMPLE ID Method Blank SAMPLE# 02A
DATE COLLECTED not specified MATRIX METHOD BLANK
TEST NAME DER 17-550 Unreg Pest 515s TEST CODE 615U

SAMPLE TYPE WATER DATE EXTRACTED 02/13/90
UNITS ug/l DATE RUN 02/16/90
ANALYST RAB DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-515.1
UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PWS035)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 2031 | Dalapon | 1.0 U | 1 |
| 2040 | Picloram | 1.0 U | 1 |
| 2041 | Dinoseb | 2.0 U | 2 |
| 2440 | Dicamba | 2.0 U | 2 |

ORLANDO LABORATORIES, INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-117

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME DER 17-550 Unreg Pest 622s

SAMPLE# 02A
MATRIX METHOD BLANK
TEST CODE 622U

SAMPLE TYPE WATER
UNITS ug/l
ANALYST JHH

DATE EXTRACTED 02/08/90
DATE RUN 02/12/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-622
UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PWS035)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2037 | Simazine | 0.5 | U | 0.5 |
| 2045 | Metolachlor | 0.5 | U | 0.5 |
| 2050 | Atrazine | 0.5 | U | 0.5 |
| 2051 | Alachlor (Lasso) | 0.5 | U | 0.5 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-117

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME DER 17-550 Unreg BNAs/Pest

SAMPLE# 02A
MATRIX METHOD BLANK
TEST CODE 625U

SAMPLE TYPE WATER
UNITS ug/l
ANALYST EJP

DATE EXTRACTED 2/12/90
DATE RUN 2/18/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-625
UNREGULATED BASE NEUTRAL EXTRACTABLE ANALYSIS
17-550.410(3)
(PWS036)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 2262 | Isophorone | 10 U | 10 |
| 2378 | 1,2,4-Trichlorobenzene | 10 U | 10 |
| 2042 | Hexachlorocyclo pentadiene | 10 U | 10 |
| 2282 | Dimethylphthalate | 10 U | 10 |
| 2270 | 2,4-Dinitrotoluene | 10 U | 10 |
| 2284 | Diethylphthalate | 10 U | 10 |
| 2290 | Di-n-butyl phthalate | 10 U | 10 |
| 2294 | Butyl Benzyl Phthalate | 10 U | 10 |
| 2298 | Bis(2-Ethylhexyl) phthalate | 10 U | 10 |
| 9089 | Dioctylphthalate | 10 U | 10 |
| 2063 | 2,3,7,8-TCDD (Dioxin) | 1000 U | 1000 |

UNREGULATED ACID EXTRACTABLE ANALYSIS
17-550.410(4)
(PWS037)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 9108 | 2-Chlorophenol | 10 U | 10 |
| 9112 | 2-Methyl-4,6-Dinitro phenol | 50 U | 50 |
| 9115 | Phenol | 10 U | 10 |
| 9116 | 2,4,6-Trichlorophenol | 10 U | 10 |

UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PWS035)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 2326 | Pentachlorophenol | 50 U | 50 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
NonReported Work

Work Order # 90-02-117

FRACTION AND TEST CODES FOR WORK NOT REPORTED ELSEWHERE

01A 1 NOTEST

Spring Hill Utilities
Attn: Rick Leach

Report No: 90-02-117
Page No: 36

## QUALITY CONTROL DATA SHEET

| PARAMETER | DUPLICATES % DIFFERENCE | SPIKES % RECOVERY | DATE | ANALYST |
|---|---|---|---|---|
| Barium | <1 | 99 | 02/14/90 | BB |
| Sodium | 1 | 106 | 02/14/90 | BB |
| Iron | <1 | 101 | 02/14/90 | BB |
| Manganese | <1 | 100 | 02/14/90 | BB |
| Zinc | <1 | 104 | 02/14/90 | BB |
| Calcium | 1 | 103 | 02/14/90 | BB |
| Lead | 1 | 91 | 02/14/90 | JC |
| Arsenic | 2 | 92 | 02/14/90 | CFG |
| Silver | <1 | 101 | 02/14/90 | CFG |
| Mercury | 2 | 100 | 02/13/90 | BH |
| Selenium | <1 | 92 | 02/14/90 | CFG |
| Cadmium | <1 | 104 | 02/14/90 | CFG |
| Chromium | 7 | 102 | 02/15/90 | CJP |
| Copper | <1 | 97 | 02/15/90 | CFG |
| Color | <1 | N/A | 02/09/90 | DR |
| Odor | <1 | N/A | 02/09/90 | DR |
| Nitrogen, Nitrite | <1 | 88 | 02/10/90 | DB |
| Turbidity | <1 | N/A | 02/09/90 | DR |
| pH | 1 | N/A | 02/09/90 | DA |
| Total Alkalinity | 6 | 116 | 02/09/90 | DA |
| Chloride | 5 | 105/110 | 02/12/90 | DA |
| Sulfate | 4 | 112 | 02/13/90 | SRK |
| TDS | 2 | 94/96 | 02/13/90 | DB |
| Fluoride | 4 | 107/103 | 02/12/90 | DA |
| Nitrogen, Nitrate | <1 | 99 | 02/13/90 | DR |
| MBAS | <1 | 92 | 02/10/90 | DR |
| Gross Alpha | 0.0 | 91 | 02/27/90 | JAB |

Note: The duplicate for Gross Alpha is reported as actual difference rather than percent difference as specified.

ORLANDO LABORATORIES INC.

GC/MS SEMI-VOLATILE ORGANICS



MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 02-23-1990

LAB SAMPLE # : 90-02-144-1
ANALYSIS DATE : 2/22/90

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| phenol | 200 | 0 | 125 | 63 | 119 | 60 | 5 |
| 2-chlorophenol | 200 | 0 | 186 | 93 | 186 | 93 | 0 |
| 4-chloro-3-methylphenol | 200 | 0 | 132 | 66 | 126 | 63 | 5 |
| 4-nitrophenol | 200 | 0 | 184 | 92 * | 170 | 85 | 8 |
| pentachlorophenol | 200 | 0 | 246 | 123 * | 235 | 118 * | 5 |
| 1,4-dichlorobenzene | 100 | 0 | 103 | 103 * | 99 | 99 * | 4 |
| n-nitroso-di-n-propylamine | 100 | 0 | 142 | 142 * | 133 | 133 * | 7 |
| 1,2,4-trichlorobenzene | 100 | 0 | 101 | 101 * | 94 | 94 | 7 |
| acenaphthene | 100 | 0 | 121 | 121 * | 114 | 114 | 6 |
| 2,4-dinitrotoluene | 100 | 0 | 131 | 131 * | 127 | 127 * | 3 |
| pyrene | 100 | 0 | 103 | 103 | 96 | 96 | 7 |

COMMENTS : * = parameter outside QC limits.

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| phenol | 12 | 89 | 42 | 26 | 90 | 35 |
| 2-chlorophenol | 27 | 123 | 40 | 25 | 102 | 50 |
| 4-chloro-3-methylphenol | 23 | 97 | 42 | 26 | 103 | 33 |
| 4-nitrophenol | 10 | 90 | 50 | 11 | 114 | 50 |
| pentachlorophenol | 25 | 103 | 50 | 17 | 109 | 47 |
| 1,4-dichlorobenzene | 36 | 97 | 28 | 28 | 104 | 27 |
| n-nitroso-di-n-propylamine | 41 | 116 | 38 | 41 | 126 | 38 |
| 1,2,4-trichlorobenzene | 39 | 98 | 28 | 38 | 107 | 23 |
| acenaphthene | 46 | 118 | 31 | 31 | 137 | 19 |
| 2,4-dinitrotoluene | 24 | 102 | 38 | 28 | 95 | 47 |
| pyrene | 26 | 127 | 31 | 35 | 142 | 36 |

ORLANDO LABORATORIES. INC.



# MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 02-19-1990

LAB SAMPLE # : 9002115-01A
ANALYSIS DATE : 02/16/90

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| DALAPON | 100 | 0 | 125 | 125 | 132 | 132 | 5 |
| 2,4,5-TP (SILVEX) | 100 | 0 | 99 | 99 | 108 | 108 | 9 |
| PICLORAM | 100 | 0 | 104 | 104 | 108 | 108 | 4 |

COMMENTS :

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| DALAPON | 95 | 175 | 20 | 95 | 175 | 20 |
| 2,4,5-TP (SILVEX) | 95 | 175 | 20 | 95 | 175 | 20 |
| PICLORAM | 95 | 175 | 20 | 95 | 175 | 20 |

ORLANDO LABORATORIES, INC.

GC ORGANICS



# MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 02-16-1990

LAB SAMPLE # : 9002115-01A
ANALYSIS DATE : 02/14/90

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| GAMMA-BHC (LINDANE) | 100 | 0 | 117 | 117 | 117 | 117 | 0 |
| HEPTACHLOR | 100 | 0 | 122 | 122 | 123 | 123 | 1 |
| ALDRIN | 100 | 0 | 97 | 97 | 95 | 95 | 2 |
| DIELDRIN | 100 | 0 | 90 | 90 | 88 | 88 | 2 |
| ENDRIN | 100 | 0 | 90 | 90 | 88 | 88 | 2 |
| 4,4-DDT | 100 | 0 | 67 | 67 | 68 | 68 | 1 |

COMMENTS :

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| GAMMA-BHC (LINDANE) | 56 | 123 | 15 | 46 | 127 | 50 |
| HEPTACHLOR | 40 | 131 | 20 | 35 | 130 | 31 |
| ALDRIN | 40 | 120 | 22 | 34 | 132 | 43 |
| DIELDRIN | 52 | 126 | 18 | 31 | 134 | 38 |
| ENDRIN | 56 | 121 | 21 | 42 | 139 | 45 |
| 4,4-DDT | 38 | 127 | 27 | 23 | 134 | 50 |

ORLANDO LABORATORIES, INC.

GC ORGANICS



# MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 02-15-1990

LAB SAMPLE # : 9002115-01A
ANALYSIS DATE : 02/09/90

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD % RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| ALDICARB | 100 | 0 | 102 | 102 | 94 | 94 | 8 |

COMMENTS :

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| ALDICARB | 77 | 127 | 28 | 72 | 132 | 28 |

ORLANDO LABORATORIES, INC.

GC ORGANICS



# MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 02-13-1990

LAB SAMPLE # : 9002084-01A
ANALYSIS DATE : 02/12/90

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| ETHYLENE DIBROMIDE | 100 | 0 | 59 | 59 | 59 | 59 | 0 |

COMMENTS :

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| ETHYLENE DIBROMIDE | 34 | 92 | 20 | 65 | 90 | 20 |

ORLANDO LABORATORIES INC.

GC/MS VOLATILE ORGANICS



MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 02-10-1990

LAB SAMPLE # : 9002118-1
ANALYSIS DATE : 2/10/90

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| 1,1-dichloroethene | 50 | 0 | 56 | 112 | 53 | 106 | 6 |
| trichloroethene | 50 | 0 | 51 | 102 | 49 | 98 | 4 |
| benzene | 50 | 0 | 55 | 110 | 46 | 92 | 18 * |
| toluene | 50 | 0 | 58 | 116 | 53 | 106 | 9 |
| chlorobenzene | 50 | 0 | 50 | 100 | 49 | 98 | 2 |

COMMENTS : * = parameter outside QC limits.

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| 1,1-dichloroethene | 61 | 145 | 14 | 59 | 172 | 22 |
| trichloroethene | 71 | 120 | 14 | 62 | 137 | 24 |
| benzene | 76 | 127 | 11 | 66 | 142 | 21 |
| toluene | 76 | 125 | 13 | 59 | 139 | 21 |
| chlorobenzene | 75 | 130 | 13 | 60 | 133 | 21 |

ORLANDO LABORATORIES, INC.



# MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 02-13-1990

LAB SAMPLE # : 9002085-01A
ANALYSIS DATE : 02/12/90

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD % RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| diazinon | 100 | 0 | 93 | 93 | 96 | 96 | 3 |

COMMENTS :

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| diazinon | 47 | 147 | 18 | 30 | 174 | 20 |

End of Report

ORLANDO LABORATORIES, INC.
P.O. Box 149127, Orlando, FL 32814
(407) 896-6645 FAX (407) 898-6588

# CHAIN-OF-CUSTODY RECORD

(INSTRUCTIONS ON BACK)

Page ____ of ____

№ 03304

| 1 INVOICE TO (COMPANY AND INDIVIDUAL) / ADDRESS (CITY, STATE, ZIP) | 2 CONTACT PERSON/PHONE # INVOICE | 3 C. WORK ORDER # (LAB USE) |
|---|---|---|
| Spring Hill Utilities 9500 Elridge Rd. Spring Hill 34608 | 904 683 2715 | 900217 |
| **4 ORIGINAL REPORT TO (COMPANY AND INDIVIDUAL) / ADDRESS (CITY, STATE, ZIP)** | **5 CONTACT PERSON/PHONE # REPORT** | **6 RB NUMBER (LAB USE)** |
| Same Same | Same | 560 |
| **7 (OPTIONAL) ADDITIONAL REPORTS SENT TO: / ADDRESS: (CITY, STATE, ZIP)** | | |
| **8 CLIENT PROJECT NAME** | **9 CLIENT PROJECT #** | |
| Unit #13 Antel Op. | 6271696 | |

| 10 SAMPLE IDENTIFICATION | 11 DATE/TIME | 12 COMP | GRAB | WATER | SOIL | OTHER | 13 SAMPLE DESCRIPTION | 17 NUMBER OF CONTAINERS | 18 REQUESTED ANALYSIS | 19 REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| Unit 13 | 2-7-90 1530 | | Y | | | | The whole kit | 12 | | |

| TRANSFER NUMBER | 14 RELINQUISHED BY | 15 DATE/TIME | 16 ACCEPTED BY |
|---|---|---|---|
| 1st | Marc Stolas | 2/8/90 10:30 | |
| 2nd | | | |
| 3rd | | | |

20 ADDITIONAL REMARKS

21 COOLER #'s: 279

22 SAMPLER'S SIGNATURE: Ricky Lee

ORIGINAL - LAB

0416

ORLANDO LABORATORIES INC
P.O. Box 148127 • Orlando, Florida 32814 • (407) 896-6645

REPORT OF ANALYSIS

Spring Hill Utilities
9500 Eldridge Road
Spring Hill, FL 34608

Attn: Rick Leach

Work Order # : 90-02-116
Date Received: 02/08/90
Date Reported: 03/02/90
OLI Contact: E_HOBBS

Work ID: 6271696 Unit 7 Eldridge
Total Samples: 2

Sampling information is based on data supplied by Rick Leach

| SAMPLE IDENTIFICATION | TEST CODES and NAMES used on this report |
|---|---|
| 01 Unit 7 | 501R 17-550 Trihalomethanes |
| 02 Method Blank | 504R 17-550 "EDB" Analysis |
| | 504U 17-550 "DBCP" Analysis |
| | 524R DER 17-550 Regulated VOA's |
| | 524U DER 17-550 Unregulated VOA |
| | 531U DER 17-550 Unreg Pest 531s |
| | 608R DER 17-550 Reg. Pest 608s |
| | 608U DER 17-550 Unreg Pest 608s |
| | 615R DER 17-550 Reg. Herb 615 |
| | 615U DER 17-550 Unreg Pest 515s |
| | 622U DER 17-550 Unreg Pest 622s |
| | 625U DER 17-550 Unreg BNAs/Pest |
| | DERBCT 17-550 Total Coliform Bact |
| | DERPDM 17-550 Primary Metals Only |
| | DERPDW 17-550 Primary WetChem |
| | DERSDM DER 17-5 Secondary Metals |
| | DERSDW DER 17-5 Secondary Wet Chm |
| | DERTRB 17-550 Turbidity Analysis |
| | DER_GA Gross Alpha (water)17-550 |

Total Coliform: Set date 02/08/90 at 1500 hours
Read date 02/09/90 at 1500 hours

OLI Florida Department of Health & Rehabilitative Service Identification Numbers are:
Drinking Water Certification Number 83141, Environmental Certification Number E83033

Respectfully Submitted
ORLANDO LABORATORIES, INC.

Acting
LABORATORY DIRECTOR

Eric Malarek
QUALITY CONTROL

*The Analytical Specialists*

ORLANDO LABORATORIES, INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Page

Work Order # 90-02 116

SAMPLE ID Unit 7
DATE COLLECTED 02/07/90 13:30:00
TEST NAME 17-550 Trihalomethanes

SAMPLE# 01A
MATRIX WATER
TEST CODE 501R

SAMPLE TYPE WATER
UNITS ug/l
ANALYST EJP

DATE EXTRACTED NA
DATE RUN 2/10/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-501.2
TRIHALOMETHANE ANALYSIS
17-550.310(2)(C)
(PWS027)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 2950 | TTHM | 1.0 U | 1.0 |

ORLANDO LABORATORIES, INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-110

SAMPLE ID Unit 7
DATE COLLECTED 02/07/90 13:30:00
TEST NAME 17-550 "EDB" Analysis

SAMPLE# 01A
MATRIX WATER
TEST CODE 504R

SAMPLE TYPE WATER
UNITS ug/l
ANALYST JAB

DATE EXTRACTED 02/08/90
DATE RUN 02/12/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-504
VOLATILE ORGANIC ANALYSIS
17-550.310(2)(D)
(PW5028)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 2946 | Ethylene dibromide | 0.02 U | 0.02 |

ORLANDO LABORATORIES, INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-116

SAMPLE ID Unit 7
DATE COLLECTED 02/07/90 13:30:00
TEST NAME 17-550 "DBCP" Analysis

SAMPLE# 01A
MATRIX WATER
TEST CODE 5040

SAMPLE TYPE WATER
UNITS UG/L
ANALYST JAB

DATE EXTRACTED 02/09/90
DATE RUN 02/12/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-504
UNREGULATED ORGANIC PURGEABLE ANALYSIS
17-550.410(1)
(PWS034)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 2931 | 1,2-dibromo-3-chloro propane | 0.02 U | 0.02 |

ORLANDO LABORATORIES,INC. REPORT OF ANALYSIS Work Order # 90-02-116
Received: 02/08/90 Results by Sample

SAMPLE ID Unit 7 SAMPLE# 01A
DATE COLLECTED 02/07/90 13:30:00 MATRIX WATER
TEST NAME DER 17-550 Regulated VOA's TEST CODE 524R

SAMPLE TYPE WATER DATE EXTRACTED NA
UNITS UG/L DATE RUN 2/10/90
ANALYST EJP DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-524
VOLATILE ORGANIC ANALYSIS
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2969 | p-Dichlorobenzene | 0.5 | U | 0.5 |
| 2976 | Vinyl Chloride | 0.5 | U | 0.5 |
| 2977 | 1,1-Dichloroethene | 0.5 | U | 0.5 |
| 2980 | 1,2-Dichloroethane | 0.5 | U | 0.5 |
| 2981 | 1,1,1-Trichloroethane | 0.5 | U | 0.5 |
| 2982 | Carbon Tetrachloride | 0.5 | U | 0.5 |
| 2984 | Trichloroethene | 0.5 | U | 0.5 |
| 2987 | Tetrachloroethene | 0.5 | U | 0.5 |
| 2990 | Benzene | 0.5 | U | 0.5 |

ORLANDO LABORATORIES, INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02 116

SAMPLE ID Unit 7
DATE COLLECTED 02/07/90 13:30:00
TEST NAME DER 17-550 Unregulated VOA

SAMPLE # 01A
MATRIX WATER
TEST CODE 5241I

SAMPLE TYPE WATER
UNITS UG/L
ANALYST EJP

DATE EXTRACTED NA
DATE RUN 2/10/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-524
UNREGULATED ORGANIC PURGEABLE ANALYSIS
17-550.410(1)
(FWS034)

| Parameter ID | Name | Analysis Result | | Det. L.t. |
|---|---|---|---|---|
| 2210 | Chloromethane | 0.5 | U | 0.5 |
| 2212 | Dichlorodifluoromethane | 0.5 | U | 0.5 |
| 2214 | Bromomethane | 0.5 | U | 0.5 |
| 2216 | Chloroethane | 0.5 | U | 0.5 |
| 2218 | Trichlorofluoromethane | 0.5 | U | 0.5 |
| 2224 | trans-1,3-Dichloro propene | 0.5 | U | 0.5 |
| 2228 | cis-1,3-Dichloropropene | 0.5 | U | 0.5 |
| 2251 | Methyl tert-butyl-ether | 0.5 | U | 0.5 |
| 2380 | cis-1,2-Dichloroethene | 0.5 | U | 0.5 |
| 2408 | Dibromomethane | 0.5 | U | 0.5 |
| 2410 | 1,1-Dichloropropene | 0.5 | U | 0.5 |
| 2412 | 1,3-Dichloropropane | 0.5 | U | 0.5 |
| 2414 | 1,2,3-Trichloropropane | 0.5 | U | 0.5 |
| 2416 | 2,2-Dichloropropane | 0.5 | U | 0.5 |
| 2941 | Chloroform | 0.5 | U | 0.5 |
| 2942 | Bromoform | 0.5 | U | 0.5 |
| 2943 | Bromodichloromethane | 0.5 | U | 0.5 |
| 2944 | Dibromochloromethane | 0.5 | U | 0.5 |
| 2962 | para-Xylene | 0.5 | U | 0.5 |
| 2964 | Methylene Chloride | 0.5 | U | 0.5 |
| 2965 | o-Chlorotoluene | 0.5 | U | 0.5 |
| 2966 | p-Chlorotoluene | 0.5 | U | 0.5 |
| 2967 | meta-Dichlorobenzene | 0.5 | U | 0.5 |
| 2968 | Ortho-Dichlorobenzene | 0.5 | U | 0.5 |
| 2978 | 1,1-Dichloroethane | 0.5 | U | 0.5 |
| 2979 | trans-1,2-Dichloroethene | 0.5 | U | 0.5 |
| 2983 | 1,2-Dichloropropane | 0.5 | U | 0.5 |
| 2985 | 1,1,2-Trichloroethane | 0.5 | U | 0.5 |
| 2986 | 1,1,1,2-Tetrachloro ethane | 0.5 | U | 0.5 |
| 2988 | 1,1,2,2-Tetrachloro ethane | 0.5 | U | 0.5 |
| 2989 | Chlorobenzene | 0.5 | U | 0.5 |

ORLANDO LABORATORIES, INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-116
Continued From Above

SAMPLE ID Unit 7
DATE COLLECTED 02/07/90 13:30:00
TEST NAME DER 17-550 Unregulated VOA

SAMPLE# 010
MATRIX WATER
TEST CODE 524U

| | | | | |
|---|---|---|---|---|
| 2991 | Toluene | 0.5 | U | 0.5 |
| 2992 | Ethylbenzene | 0.5 | U | 0.5 |
| 2993 | Bromobenzene | 0.5 | U | 0.5 |
| 2995 | meta-Xylene | 0.5 | U | 0.5 |
| 2996 | Styrene | 0.5 | U | 0.5 |
| 2997 | ortho Xylene | 0.5 | U | 0.5 |

ORLANDO LABORATORIES, INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-116

SAMPLE ID Unit 7
DATE COLLECTED 02/07/90 13:30:00
TEST NAME DER 17-550 Unreg Pest 531s

SAMPLE# 010
MATRIX WATER
TEST CODE 5310

SAMPLE TYPE WATER
UNITS ug/l
ANALYST JAB

DATE EXTRACTED NA
DATE RUN 02/09/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-531
UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PWS035)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2047 | Aldicarb | 2.0 | U | 2 |
| 2043 | Aldicarb Sulfoxide | 2.0 | U | 2 |
| 2044 | Aldicarb Sulfone | 2.0 | U | 2 |
| 2046 | Carbofuran | 1.5 | U | 1.5 |
| 2036 | Oxymyl (Vydate) | 1.0 | U | 1 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-116

SAMPLE ID Unit 7
DATE COLLECTED 02/07/90 13:30:00
TEST NAME DER 17-550 Reg. Pest 608s

SAMPLE# 01A
MATRIX WATER
TEST CODE 608R

SAMPLE TYPE WATER
UNITS ug/l
ANALYST RAB

DATE EXTRACTED 02/08/90
DATE RUN 02/12/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-608
ORGANIC CHEMICAL ANALYSIS
17-550.310(2)(a)
(PWS029)

| Parameter ID | Name | Analysis Result | | Det. Lt. Used |
|---|---|---|---|---|
| 2005 | Endrin | 0.10 | U | 0.10 |
| 2010 | Lindane | 0.05 | U | 0.05 |
| 2015 | Methoxychlor | 0.50 | U | 0.50 |
| 2020 | Toxaphene | 1.00 | U | 1.00 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-116

SAMPLE ID Unit 7
DATE COLLECTED 02/07/90 13:30:00
TEST NAME DER 17-550 Unreg Pest 608s

SAMPLE# 010
MATRIX WATER
TEST CODE 6000

SAMPLE TYPE WATER
UNITS ug/l
ANALYST RAB

DATE EXTRACTED 02/08/90
DATE RUN 02/12/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-608
UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PWS035)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2065 | Heptachlor | 0.05 | U | 0.05 |
| 2356 | Aldrin | 0.05 | U | 0.05 |
| 2364 | Dieldrin | 0.10 | U | 0.10 |
| 2959 | Chlordane | 0.50 | U | 0.50 |

UNREGULATED BASE NEUTRAL EXTRACTABLE ANALYSIS
17-550.410(3)
(PWS036)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2388 | PCB-1016 | 0.50 | U | 0.5 |
| 2390 | PCB-1221 | 0.50 | U | 0.5 |
| 2392 | PCB-1232 | 0.50 | U | 0.5 |
| 2394 | PCB-1242 | 0.50 | U | 0.5 |
| 2396 | PCB-1248 | 0.50 | U | 0.5 |
| 2398 | PCB-1254 | 1.00 | U | 1.0 |
| 2400 | PCB-1260 | 1.00 | U | 1.0 |

ORLANDO LABORATORIES, INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-116

SAMPLE ID Unit 7
DATE COLLECTED 02/07/90 13:30:00
TEST NAME DER 17-550 Reg. Herb 615

SAMPLE# 010
MATRIX WATER
TEST CODE 615R

SAMPLE TYPE WATER
UNITS ug/l
ANALYST RAB

DATE EXTRACTED 02/13/90
DATE RUN 02/16/90
DILUTION FACTOR 5
% MOISTURE NA

METHOD EPA-615
ORGANIC CHEMICAL ANALYSIS
17-550.310(2)(b)
(PWS029)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2105 | 2,4-D | 10 | U | 10 |
| 2110 | 2,4,5-TP (Silvex) | 5 | U | 5 |

ORLANDO LABORATORIES, INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-116

SAMPLE ID Unit 7
DATE COLLECTED 02/07/90 13:30:00
TEST NAME DER 17-550 Unreg Pest 515s

SAMPLE# 010
MATRIX WATER
TEST CODE 6150

SAMPLE TYPE WATER
UNITS ug/l
ANALYST RAB

DATE EXTRACTED 02/13/90
DATE RUN 02/16/90
DILUTION FACTOR 5
% MOISTURE NA

METHOD EPA-515.1
UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PWS035)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 2031 | Dalapon | 5 U | 5 |
| 2040 | Picloram | 5 U | 5 |
| 2041 | Dinoseb | 10 U | 10 |
| 2440 | Dicamba | 10 U | 10 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-116

SAMPLE ID Unit 7
DATE COLLECTED 02/07/90 13:30:00
TEST NAME DER 17-550 Unreg Pest 622s

SAMPLE# 01A
MATRIX WATER
TEST CODE 622U

SAMPLE TYPE WATER
UNITS ug/l
ANALYST JHW

DATE EXTRACTED 02/08/90
DATE RUN 02/12/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-622
UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PWS035)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 2037 | Simazine | 0.5 U | 0.5 |
| 2045 | Metolachlor | 0.5 U | 0.5 |
| 2050 | Atrazine | 0.5 U | 0.5 |
| 2051 | Alachlor (Lasso) | 0.5 U | 0.5 |

ORLANDO LABORATORIES, INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-116

SAMPLE ID Unit 7
DATE COLLECTED 02/07/90 13:30:00
TEST NAME DER 17-550 Unreg BNAs/Pest

SAMPLE# 010
MATRIX WATER
TEST CODE 625U

SAMPLE TYPE WATER
UNITS ug/l
ANALYST EJP

DATE EXTRACTED 2/12/90
DATE RUN 2/22/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-625
UNREGULATED BASE NEUTRAL EXTRACTABLE ANALYSIS
17-550.410(3)
(PWS036)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 2262 | Isophorone | 10 U | 10 |
| 2378 | 1,2,4-Trichlorobenzene | 10 U | 10 |
| 2042 | Hexachlorocyclo pentadiene | 10 U | 10 |
| 2282 | Dimethylphthalate | 10 U | 10 |
| 2270 | 2,4-Dinitrotoluene | 10 U | 10 |
| 2284 | Diethylphthalate | 10 U | 10 |
| 2290 | Di-n-butyl phthalate | 10 U | 10 |
| 2294 | Butyl Benzyl Phthalate | 10 U | 10 |
| 2298 | Bis(2-Ethylhexyl) phthalate | 10 U | 10 |
| 9089 | Dioctylphthalate | 10 U | 10 |
| 2063 | 2,3,7,8-TCDD (Dioxin) | 1000 U | 1000 |

UNREGULATED ACID EXTRACTABLE ANALYSIS
17-550.410(4)
(PWS037)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 9108 | 2-Chlorophenol | 10 U | 10 |
| 9112 | 2-Methyl-4,6-Dinitro phenol | 50 U | 50 |
| 9115 | Phenol | 10 U | 10 |
| 9116 | 2,4,6-Trichlorophenol | 10 U | 10 |

UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PWS035)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 2326 | Pentachlorophenol | 50 U | 50 |

ORLANDO LABORATORIES, INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02 116

SAMPLE ID Unit 7
DATE COLLECTED 02/07/90 13:30:00
TEST NAME 17-550 Total Coliform Back

SAMPLE# 01A
MATRIX WATER
TEST CODE DERUCI

MICROBIOLOGICAL ANALYSIS
17-550.640

| Parameter ID | Name | Analysis Result(Cfu's/100ml) | Analytical Method |
|---|---|---|---|
| 3000 | Total Coliform | <1/L | EPA Part III B |

Date Set Up: 02/08/90
Date Read : 02/09/90

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02 116

SAMPLE ID Unit 7
DATE COLLECTED 02/07/90 13:30:00
TEST NAME 17-550 Primary Metals Only

SAMPLE# 01A
MATRIX WATER
TEST CODE DERP01

(METALS)
INORGANIC ANALYSIS
17-550.310(1)
(PWS030)

| Parameter ID | Name | Analysis Result(mg/l) | Method | Det.Lt. (mg/l) | Analysis Date |
|---|---|---|---|---|---|
| 1005 | Arsenic | <0.010 | EPA206.2 | 0.010 | 02/14/90 |
| 1010 | Barium | <0.100 | EPA200.7 | 0.100 | 02/14/90 |
| 1015 | Cadmium | <0.005 | EPA213.2 | 0.005 | 02/14/90 |
| 1020 | Chromium | <0.010 | EPA218.2 | 0.010 | 02/15/90 |
| 1030 | Lead | <0.010 | EPA239.2 | 0.010 | 02/14/90 |
| 1035 | Mercury | <0.0005 | EPA245.1 | 0.0005 | 02/13/90 |
| 1045 | Selenium | <0.005 | EPA270.2 | 0.005 | 02/14/90 |
| 1050 | Silver | <0.010 | EPA272.2 | 0.010 | 02/14/90 |
| 1052 | Sodium | 3.70 | EPA200.7 | 0.001 | 02/14/90 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-116

SAMPLE ID Unit 7
DATE COLLECTED 02/07/90 13:30:00
TEST NAME 17-550 Primary WetChem

SAMPLE# 01A
MATRIX WATER
TEST CODE DERFDW

WET CHEMISTRY
SECONDARY CHEMICAL ANALYSIS
17-550.310(1)
(PWS030)

| Parameter ID | Name | Analysis Result(mg/l) | Method | Det.Lt. (mg/l) | Analysis Date |
|---|---|---|---|---|---|
| 1025 | Fluoride | <0.1 | EPA340.2 | 0.1 | 02/13/90 |
| 1040 | Nitrate (as N) | 0.83 | EPA353.2 | 0.03 | 02/13/90 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-116

SAMPLE ID Unit 7
DATE COLLECTED 02/07/90 13:30:00
TEST NAME DER 17-5 Secondary Metals

SAMPLE# 01A
MATRIX WATER
TEST CODE DERSUM

(METALS)
SECONDARY CHEMICAL ANALYSIS
17-550.320
(PWS031)

| Parameter ID | Name | Analysis Result(mg/l) | Method | Det.Lt. (mg/l) | Analysis Date |
|---|---|---|---|---|---|
| 1022 | Copper | <0.010 | EPA200.7 | 0.010 | 02/15/90 |
| 1028 | Iron | <0.100 | EPA200.7 | 0.1 | 02/14/90 |
| 1032 | Manganese | <0.050 | EPA200.7 | 0.050 | 02/14/90 |
| 1095 | Zinc | <0.050 | EPA200.7 | 0.050 | 02/14/90 |
| 1919 | Calcium Hardness | 75.0 | EPA200.7 | 2.5 | 02/14/90 |

ORLANDO LABORATORIES, INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-116

SAMPLE ID Unit 7
DATE COLLECTED 02/07/90 13:30:00
TEST NAME DER 17-5 Secondary Wet Chm

SAMPLE# 01A
MATRIX WATER
TEST CODE DERSUM

WET CHEMISTRY
SECONDARY CHEMICAL ANALYSIS
17-550.320
(PWS031)

| Parameter ID | Name | Analysis Result(mg/l) | Method | Det.Lt. (mg/l) | Analysis Date |
|---|---|---|---|---|---|
| 1017 | Chloride | <1.0 | SM 407 | 1.0 | 02/12/90 |
| 1025 | Fluoride | <0.1 | EPA340.2 | 0.1 | 02/13/90 |
| 1055 | Sulfate | 6.2 | EPA375.4 | 1.0 | 02/13/90 |
| 1901 | Carbon Dioxide | <1.0 | SM 406 C | 1.0 | 02/15/90 |
| 1905 | Color | <5 | SM 204 A | 5PCU | 02/09/90 |
| 1920 | Odor Threshold | 1 | EPA140.1 | 1TON | 02/09/90 |
| 1927 | Total Alkalinity | 85 | EPA310.1 | 2.0 | 02/09/90 |
| 1930 | Total Dissolved Solids | 170 | EPA160.1 | 1.0 | 02/13/90 |
| 1931 | Phenolphthalein Alk | <2.0 | EPA310.1 | 2.0 | 02/09/90 |
| 1997 | Langelier Index pHs | 8.03 | CALC. | N/A | 02/15/90 |
| 1998 | Saturation Index | 0.17 | CALC. | N/A | 02/15/90 |
| 2903 | Foaming Agents | <0.1 | EPA425.1 | 0.1 | 02/10/90 |

VERIFIED BY DTA

ORLANDO LABORATORIES, INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-110

SAMPLE ID Unit 7
DATE COLLECTED 02/07/90 13:30:00
TEST NAME 17-550 Turbidity Analysis

SAMPLE# 01A
MATRIX WATER
TEST CODE 17TURB

TURBIDITY ANALYSIS
17-550.310(3)
(PWS026)

| Parameter ID | Name | Analysis Result (NTU) | Method | Analysis Date |
|---|---|---|---|---|
| 0100 | Turbidity | <1.0 | EPA180.1 | 02/09/90 |

ORLANDO LABORATORIES,INC. REPORT OF ANALYSIS Work Order # 90-02-116
Received: 02/08/90 Results by Sample

SAMPLE ID Unit 7 SAMPLE# 01A
DATE COLLECTED 02/07/90 13:30:00 MATRIX WATER
TEST NAME Gross Alpha (water)17-550 TEST CODE GER GA

VERIFIED JAB

RADIOLOIGICAL ANALYSIS
17-550.310(5)
(PWS033)

| Parameter ID | Name | Analysis Result(pCi/l) | Method | Analysis Error | Analysis Date |
|---|---|---|---|---|---|
| 4002 | Gross alpha incl radon & uranium | <0.5 | EPA900.0 | 0.8 | 02/27/90 |

ORLANDO LABORATORIES, INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-116

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME 17-550 Trihalomethanes

SAMPLE# 02A
MATRIX METHOD BLANK
TEST CODE 501R

SAMPLE TYPE WATER
UNITS ug/l
ANALYST EJP

DATE EXTRACTED NA
DATE RUN 2/10/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-501.2
TRIHALOMETHANE ANALYSIS
17-550.310(2)(C)
(PW3027)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 2950 | TTHM | 1.0 U | 1.0 |

ORLANDO LABORATORIES, INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-110

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME 17-550 "EDB" Analysis

SAMPLE# 02A
MATRIX METHOD BLANK
TEST CODE 504R

SAMPLE TYPE WATER
UNITS ug/l
ANALYST JAB

DATE EXTRACTED 02/08/90
DATE RUN 02/12/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-504
VOLATILE ORGANIC ANALYSIS
17-550.310(2)(D)
(PWS028)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2946 | Ethylene dibromide | 0.02 | U | 0.02 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-116

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME 17-550 "OBCP" Analysis

SAMPLE# 02A
MATRIX METHOD BLANK
TEST CODE 504U

SAMPLE TYPE WATER
UNITS UG/L
ANALYST JAB

DATE EXTRACTED 02/08/90
DATE RUN 02/12/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-504
UNREGULATED ORGANIC PURGEABLE ANALYSIS
17-550.410(1)
(PWS034)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 2931 | 1,2-dibromo-3-chloro propane | 0.02 U | 0.02 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-115

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME DER 17-550 Regulated VOA's

SAMPLE# 02A
MATRIX METHOD BLANK
TEST CODE 524R

SAMPLE TYPE WATER
UNITS UG/L
ANALYST EJP

DATE EXTRACTED NA
DATE RUN 2/10/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-524
VOLATILE ORGANIC ANALYSIS
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2969 | p-Dichlorobenzene | 0.5 | U | 0.5 |
| 2976 | Vinyl Chloride | 0.5 | U | 0.5 |
| 2977 | 1,1-Dichloroethene | 0.5 | U | 0.5 |
| 2980 | 1,2-Dichloroethane | 0.5 | U | 0.5 |
| 2981 | 1,1,1-Trichloroethane | 0.5 | U | 0.5 |
| 2982 | Carbon Tetrachloride | 0.5 | U | 0.5 |
| 2984 | Trichloroethene | 0.5 | U | 0.5 |
| 2987 | Tetrachloroethene | 0.5 | U | 0.5 |
| 2990 | Benzene | 0.5 | U | 0.5 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02 [illegible]

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME OER 17-550 Unregulated VOA

SAMPLE# 020
MATRIX METHOD BLANK
TEST CODE 524U

SAMPLE TYPE WATER
UNITS UG/L
ANALYST EJP

DATE EXTRACTED NA
DATE RUN 2/10/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-524
UNREGULATED ORGANIC PURGEABLE ANALYSIS
17-550.410(1)
(FWS034)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2210 | Chloromethane | 0.5 | U | 0.5 |
| 2212 | Dichlorodifluoromethane | 0.5 | U | 0.5 |
| 2214 | Bromomethane | 0.5 | U | 0.5 |
| 2216 | Chloroethane | 0.5 | U | 0.5 |
| 2218 | Trichlorofluoromethane | 0.5 | U | 0.5 |
| 2224 | trans-1,3-Dichloro propene | 0.5 | U | 0.5 |
| 2228 | cis-1,3-Dichloropropene | 0.5 | U | 0.5 |
| 2251 | Methyl tert-butyl-ether | 0.5 | U | 0.5 |
| 2380 | cis-1,2-Dichloroethene | 0.5 | U | 0.5 |
| 2408 | Dibromomethane | 0.5 | U | 0.5 |
| 2410 | 1,1-Dichloropropene | 0.5 | U | 0.5 |
| 2412 | 1,3-Dichloropropane | 0.5 | U | 0.5 |
| 2414 | 1,2,3-Trichloropropane | 0.5 | U | 0.5 |
| 2416 | 2,2-Dichloropropane | 0.5 | U | 0.5 |
| 2941 | Chloroform | 0.5 | U | 0.5 |
| 2942 | Bromoform | 0.5 | U | 0.5 |
| 2943 | Bromodichloromethane | 0.5 | U | 0.5 |
| 2944 | Dibromochloromethane | 0.5 | U | 0.5 |
| 2962 | para-Xylene | 0.5 | U | 0.5 |
| 2964 | Methylene Chloride | 0.5 | U | 0.5 |
| 2965 | o-Chlorotoluene | 0.5 | U | 0.5 |
| 2966 | p-Chlorotoluene | 0.5 | U | 0.5 |
| 2967 | meta-Dichlorobenzene | 0.5 | U | 0.5 |
| 2968 | Ortho-Dichlorobenzene | 0.5 | U | 0.5 |
| 2978 | 1,1-Dichloroethane | 0.5 | U | 0.5 |
| 2979 | trans-1,2-Dichloroethene | 0.5 | U | 0.5 |
| 2983 | 1,2-Dichloropropane | 0.5 | U | 0.5 |
| 2985 | 1,1,2-Trichloroethane | 0.5 | U | 0.5 |
| 2986 | 1,1,1,2-Tetrachloro ethane | 0.5 | U | 0.5 |
| 2988 | 1,1,2,2-Tetrachloro ethane | 0.5 | U | 0.5 |
| 2989 | Chlorobenzene | 0.5 | U | 0.5 |

ORLANDO LABORATORIES, INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90 02-116
Continued From Above

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME OER 17-550 Unregulated VOA

SAMPLE# 0V0
MATRIX METHOD BLANK
TEST CODE 524U

| | | | | |
|---|---|---|---|---|
| 2991 | Toluene | 0.5 | U | 0.5 |
| 2992 | Ethylbenzene | 0.5 | U | 0.5 |
| 2993 | Bromobenzene | 0.5 | U | 0.5 |
| 2995 | meta-Xylene | 0.5 | U | 0.5 |
| 2996 | Styrene | 0.5 | U | 0.5 |
| 2997 | ortho Xylene | 0.5 | U | 0.5 |

ORLANDO LABORATORIES, INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-116

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME DER 17-550 Unreg Pest 531s

SAMPLE# 02A
MATRIX METHOD BLANK
TEST CODE 531U

SAMPLE TYPE WATER
UNITS ug/l
ANALYST JAB

DATE EXTRACTED NA
DATE RUN 02/09/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-531
UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PWS035)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2047 | Aldicarb | 2.0 | U | 2 |
| 2043 | Aldicarb Sulfoxide | 2.0 | U | 2 |
| 2044 | Aldicarb Sulfone | 2.0 | U | 2 |
| 2046 | Carbofuran | 1.5 | U | 1.5 |
| 2036 | Oxymyl (Vydate) | 1.0 | U | 1 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-116

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME DER 17-550 Reg. Pest 608s

SAMPLE# 02A
MATRIX METHOD BLANK
TEST CODE 608R

SAMPLE TYPE WATER
UNITS ug/l
ANALYST RAB

DATE EXTRACTED 02/08/90
DATE RUN 02/12/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-608
ORGANIC CHEMICAL ANALYSIS
17-550.310(2)(a)
(PWS029)

| Parameter ID | Name | Analysis Result | | Det. Lt. Used |
|---|---|---|---|---|
| 2005 | Endrin | 0.10 | U | 0.10 |
| 2010 | Lindane | 0.05 | U | 0.05 |
| 2015 | Methoxychlor | 0.50 | U | 0.50 |
| 2020 | Toxaphene | 1.00 | U | 1.00 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-116

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME DER 17-550 Unreg Pest 608s

SAMPLE # 02A
MATRIX METHOD BLANK
TEST CODE 608U

SAMPLE TYPE WATER
UNITS ug/l
ANALYST RAB

DATE EXTRACTED 02/08/90
DATE RUN 02/12/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-608
UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PWS035)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2065 | Heptachlor | 0.05 | U | 0.05 |
| 2356 | Aldrin | 0.05 | U | 0.05 |
| 2364 | Dieldrin | 0.10 | U | 0.10 |
| 2959 | Chlordane | 0.50 | U | 0.50 |

UNREGULATED BASE NEUTRAL EXTRACTABLE ANALYSIS
17-550.410(3)
(PWS036)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2388 | PCB-1016 | 0.50 | U | 0.5 |
| 2390 | PCB-1221 | 0.50 | U | 0.5 |
| 2392 | PCB-1232 | 0.50 | U | 0.5 |
| 2394 | PCB-1242 | 0.50 | U | 0.5 |
| 2396 | PCB-1248 | 0.50 | U | 0.5 |
| 2398 | PCB-1254 | 1.00 | U | 1.0 |
| 2400 | PCB-1260 | 1.00 | U | 1.0 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-116

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME DER 17-550 Reg. Herb 615

SAMPLE# 02A
MATRIX METHOD BLANK
TEST CODE 615R

SAMPLE TYPE WATER
UNITS ug/l
ANALYST RAB

DATE EXTRACTED 02/13/90
DATE RUN 02/16/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-615
ORGANIC CHEMICAL ANALYSIS
17-550.310(2)(b)
(PWS029)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2105 | 2,4-D | 2.0 | U | 2 |
| 2110 | 2,4,5-TP (Silvex) | 1.0 | U | 1 |

ORLANDO LABORATORIES,INC.. REPORT OF ANALYSIS Work Order # 90-02-116
Received: 02/08/90 Results by Sample

SAMPLE ID Method Blank SAMPLE# 02A
DATE COLLECTED not specified MATRIX METHOD BLANK
TEST NAME DER 17-550 Unreg Pest 515s TEST CODE 615U

SAMPLE TYPE WATER DATE EXTRACTED 02/13/90
UNITS ug/l DATE RUN 02/16/90
ANALYST RAB DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-515.1
UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PWS035)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 2031 | Dalapon | 1.0 U | 1 |
| 2040 | Picloram | 1.0 U | 1 |
| 2041 | Dinoseb | 2.0 U | 2 |
| 2440 | Dicamba | 2.0 U | 2 |

ORLANDO LABORATORIES, INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-116

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME DER 17-550 Unreg Pest 622s

SAMPLE# 02A
MATRIX METHOD BLANK
TEST CODE 622U

SAMPLE TYPE WATER
UNITS ug/l
ANALYST JHW

DATE EXTRACTED 02/08/90
DATE RUN 02/12/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-622
UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PWS035)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2037 | Simazine | 0.5 | U | 0.5 |
| 2045 | Metolachlor | 0.5 | U | 0.5 |
| 2050 | Atrazine | 0.5 | U | 0.5 |
| 2051 | Alachlor (Lasso) | 0.5 | U | 0.5 |

ORLANDO LABORATORIES,INC.. REPORT OF ANALYSIS Work Order # 90-02-116
Received: 02/08/90 Results by Sample

SAMPLE ID Method Blank SAMPLE# 020
DATE COLLECTED not specified MATRIX METHOD BLANK
TEST NAME DER 17-550 Unreg BNAs/Pest TEST CODE 625U

SAMPLE TYPE WATER DATE EXTRACTED 2/12/90
UNITS ug/l DATE RUN 2/18/90
ANALYST EJP DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-625
UNREGULATED BASE NEUTRAL EXTRACTABLE ANALYSIS
17-550.410(3)
(PWS036)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 2262 | Isophorone | 10 U | 10 |
| 2378 | 1,2,4-Trichlorobenzene | 10 U | 10 |
| 2042 | Hexachlorocyclo pentadiene | 10 U | 10 |
| 2282 | Dimethylphthalate | 10 U | 10 |
| 2270 | 2,4-Dinitrotoluene | 10 U | 10 |
| 2284 | Diethylphthalate | 10 U | 10 |
| 2290 | Di-n-butyl phthalate | 10 U | 10 |
| 2294 | Butyl Benzyl Phthalate | 10 U | 10 |
| 2298 | Bis(2-Ethylhexyl) phthalate | 10 U | 10 |
| 9089 | Dioctylphthalate | 10 U | 10 |
| 2063 | 2,3,7,8-TCDD (Dioxin) | 1000 U | 1000 |

UNREGULATED ACID EXTRACTABLE ANALYSIS
17-550.410(4)
(PWS037)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 9108 | 2-Chlorophenol | 10 U | 10 |
| 9112 | 2-Methyl-4,6-Dinitro phenol | 50 U | 50 |
| 9115 | Phenol | 10 U | 10 |
| 9116 | 2,4,6-Trichlorophenol | 10 U | 10 |

UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PWS035)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 2326 | Pentachlorophenol | 50 U | 50 |

ORLANDO LABORATORIES,INC. REPORT OF ANALYSIS Work Order # 90-02-116
Received: 02/08/90 NonReported Work

FRACTION AND TEST CODES FOR WORK NOT REPORTED ELSEWHERE

01A : NOTEST

Spring Hill Utilities
Attn: Rick Leach

Report No: 90-02-116
Page No: 36

## QUALITY CONTROL DATA SHEET

| PARAMETER | DUPLICATES % DIFFERENCE | SPIKES % RECOVERY | DATE | ANALYST |
|---|---|---|---|---|
| Barium | <1 | 99 | 02/14/90 | BB |
| Sodium | 1 | 106 | 02/14/90 | BB |
| Iron | <1 | 101 | 02/14/90 | BB |
| Manganese | <1 | 100 | 02/14/90 | BB |
| Zinc | <1 | 104 | 02/14/90 | BB |
| Calcium | 1 | 103 | 02/14/90 | BB |
| Lead | 1 | 91 | 02/14/90 | JC |
| Arsenic | 2 | 92 | 02/14/90 | CFG |
| Silver | <1 | 101 | 02/14/90 | CFG |
| Mercury | 2 | 100 | 02/13/90 | EM |
| Selenium | <1 | 92 | 02/14/90 | CFG |
| Cadmium | <1 | 104 | 02/14/90 | CFG |
| Chromium | 7 | 102 | 02/15/90 | CJP |
| Copper | <1 | 97 | 02/15/90 | CFG |
| Gross Alpha | 0.0 | 91 | 02/27/90 | JAB |
| Color | <1 | N/A | 02/09/90 | DR |
| Odor | <1 | N/A | 02/09/90 | DR |
| Nitrogen, Nitrite | <1 | 88 | 02/10/90 | DB |
| Turbidity | <1 | N/A | 02/09/90 | DR |
| pH | 1 | N/A | 02/09/90 | DA |
| Total Alkalinity | 6 | 116 | 02/09/90 | DA |
| Chloride | 5 | 105/110 | 02/12/90 | DA |
| Sulfate | 4 | 112 | 02/13/90 | SRK |
| TDS | 2 | 94/96 | 02/13/90 | DB |
| Fluoride | 4 | 107/103 | 02/13/90 | DA |
| Nitrogen, Nitrate | <1 | 99 | 02/13/90 | DR |
| MBAS | <1 | 92 | 02/10/90 | DA |

Note: The duplicate for Gross Alpha is reported as actual difference rather than percent difference as specified.

ORLANDO LABORATORIES, INC.



# MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 02-13-1990

LAB SAMPLE # : 9002085-01A
ANALYSIS DATE : 02/12/90

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| diazinon | 100 | 0 | 93 | 93 | 96 | 96 | 3 |

COMMENTS :

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| diazinon | 47 | 147 | 18 | 38 | 174 | 28 |

ORLANDO LABORATORIES, INC.

GC ORGANICS



# MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 02-13-1990

LAB SAMPLE # : 9002084-01A
ANALYSIS DATE : 02/12/90

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| ETHYLENE DIBROMIDE | 100 | 0 | 59 | 59 | 59 | 59 | 0 |

COMMENTS :

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| ETHYLENE DIBROMIDE | 34 | 92 | 20 | 45 | 90 | 20 |

ORLANDO LABORATORIES. INC.

GC ORGANICS



# MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 02-14-1990

LAB SAMPLE # : 9002100-01A
ANALYSIS DATE : 02/12/90

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| GAMMA-BHC (LINDANE) | 100 | 0 | 117 | 117 | 122 | 122 | 4 |
| HEPTACHLOR | 100 | 0 | 97 | 97 | 90 | 90 | 7 |
| ALDRIN | 100 | 0 | 120 | 120 | 130 | 130 * | 8 |
| DIELDRIN | 200 | 0 | 230 | 115 | 226 | 113 | 5 |
| ENDRIN | 200 | 0 | 223 | 111 | 227 | 113 | 1 |
| 4,4-DDT | 100 | 0 | 56 | 64 | 54 | 54 | 17 |

COMMENTS : * = parameter outside QC limits.

## MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| GAMMA-BHC (LINDANE) | 56 | 123 | 15 | 46 | 127 | 50 |
| HEPTACHLOR | 40 | 131 | 20 | 35 | 130 | 31 |
| ALDRIN | 40 | 120 | 22 | 34 | 132 | 43 |
| DIELDRIN | 52 | 126 | 18 | 31 | 134 | 38 |
| ENDRIN | 56 | 121 | 21 | 42 | 139 | 45 |
| 4,4-DDT | 38 | 127 | 27 | 23 | 134 | 58 |

ORLANDO LABORATORIES INC.

GC/MS SEMI-VOLATILE ORGANICS 

MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 02-23-1990

LAB SAMPLE # : 90-02-144-1
ANALYSIS DATE : 2/22/90

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| phenol | 200 | 0 | 125 | 63 | 119 | 60 | 5 |
| 2-chlorophenol | 200 | 0 | 186 | 93 | 186 | 93 | 0 |
| 4-chloro-3-methylphenol | 200 | 0 | 132 | 66 | 126 | 63 | 5 |
| 4-nitrophenol | 200 | 0 | 184 | 92 * | 170 | 85 | 8 |
| pentachlorophenol | 200 | 0 | 246 | 123 * | 235 | 118 * | 5 |
| 1,4-dichlorobenzene | 100 | 0 | 103 | 103 * | 99 | 99 * | 4 |
| n-nitroso-di-n-propylamine | 100 | 0 | 142 | 142 * | 133 | 133 * | 7 |
| 1,2,4-trichlorobenzene | 100 | 0 | 101 | 101 * | 94 | 94 | 7 |
| acenaphthene | 100 | 0 | 121 | 121 * | 114 | 114 | 6 |
| 2,4-dinitrotoluene | 100 | 0 | 131 | 131 * | 127 | 127 * | 3 |
| pyrene | 100 | 0 | 103 | 103 | 96 | 96 | 7 |

COMMENTS : * = parameter outside QC limits.

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| phenol | 12 | 89 | 42 | 26 | 90 | 35 |
| 2-chlorophenol | 27 | 123 | 40 | 25 | 102 | 50 |
| 4-chloro-3-methylphenol | 23 | 97 | 42 | 26 | 103 | 33 |
| 4-nitrophenol | 10 | 90 | 50 | 11 | 114 | 50 |
| pentachlorophenol | 25 | 103 | 50 | 17 | 109 | 47 |
| 1,4-dichlorobenzene | 36 | 97 | 28 | 28 | 104 | 27 |
| n-nitroso-di-n-propylamine | 41 | 116 | 38 | 41 | 126 | 38 |
| 1,2,4-trichlorobenzene | 39 | 98 | 28 | 38 | 107 | 23 |
| acenaphthene | 46 | 118 | 31 | 31 | 137 | 19 |
| 2,4-dinitrotoluene | 24 | 102 | 38 | 28 | 95 | 47 |
| pyrene | 26 | 127 | 31 | 35 | 142 | 36 |

ORLANDO LABORATORIES, INC.

GC ORGANICS



# MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 02-15-1990

LAB SAMPLE # : 9002115-01A
ANALYSIS DATE : 02/09/90

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD % RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| ALDICARB | 100 | 0 | 102 | 102 | 96 | 96 | 6 |

COMMENTS :

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| ALDICARB | 77 | 127 | 28 | 77 | 132 | 28 |

ORLANDO LABORATORIES INC.

GC/MS VOLATILE ORGANICS



MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 02-10-1990

LAB SAMPLE # : 9002118-1
ANALYSIS DATE : 2/10/90

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| 1,1-dichloroethene | 50 | 0 | 56 | 112 | 53 | 106 | 6 |
| trichloroethene | 50 | 0 | 51 | 102 | 49 | 98 | 4 |
| benzene | 50 | 0 | 55 | 110 | 46 | 92 | 18 * |
| toluene | 50 | 0 | 58 | 116 | 53 | 106 | 9 |
| chlorobenzene | 50 | 0 | 50 | 100 | 49 | 98 | 2 |

COMMENTS : * = parameter outside QC limits.

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| 1,1-dichloroethene | 61 | 145 | 14 | 59 | 172 | 22 |
| trichloroethene | 71 | 120 | 14 | 62 | 137 | 24 |
| benzene | 76 | 127 | 11 | 66 | 142 | 21 |
| toluene | 76 | 125 | 13 | 59 | 139 | 21 |
| chlorobenzene | 75 | 130 | 13 | 60 | 133 | 21 |

End of Report

0459

**ORLANDO LABORATORIES, INC.**
P.O. Box 149127, Orlando, FL 32814
(407) 896-6645 FAX (407) 898-6588

# CHAIN-OF-CUSTODY RECORD
(INSTRUCTIONS ON BACK)

Page ____ of ____

№ 03313

| 1 INVOICE TO (COMPANY AND INDIVIDUAL) / ADDRESS (CITY, STATE, ZIP) | 2 CONTACT PERSON/PHONE # INVOICE | 3 OLI WORK ORDER # (LAB USE) |
|---|---|---|
| Spring Hill utilities Spring Hill Fl. 34608 | 904 683 2715 | 9002116 |
| **4 ORIGINAL REPORT TO: (COMPANY AND INDIVIDUAL) / ADDRESS (CITY, STATE, ZIP)** | **5 CONTACT PERSON/PHONE # REPORT** | **6 RE NUMBER (LAB USE)** |
| SAME | Same | 560 |
| **7 (OPTIONAL) ADDITIONAL REPORTS SENT TO: / ADDRESS (CITY, STATE, ZIP)** | | |
| **8 CLIENT PROJECT NAME** | **9 CLIENT PROJECT #** | |
| UNIT # 7 ELDRIDGE | 6271696 | |

| 10 SAMPLE IDENTIFICATION | 11 DATE/TIME | 12 COMP | GRAB | WATER | SOIL | OTHER | 13 SAMPLE DESCRIPTION | 17 NUMBER OF CONTAINERS | 18 REQUESTED ANALYSIS | 19 REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| Unit 7 | 2-7-96 | | | | | | Tic | 12 | | |
| | 1300 | | X | | | | Whole Kit | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

| TRANSFER NUMBER | 14 RELINQUISHED BY | 15 DATE/TIME | 16 ACCEPTED BY |
|---|---|---|---|
| 1st | [signature] | 2-8-96 10 k' | [signature] |
| 2nd | | | |
| 3rd | | | |

20 ADDITIONAL REMARKS

21 COOLER #'s: 376

22 SAMPLER'S SIGNATURE: [signature]

ORIGINAL - LAB
YELLOW - FILE
PINK - CLIENT

ORLANDO LABORATORIES INC.
P.O. Box 149127 • Orlando, Florida 32814 • (407) 896-6645

REPORT OF ANALYSIS

Spring Hill Utilities
9500 Eldridge Road
Spring Hill, FL 34608

Attn: Rick Leach

Work Order # : 90-02-115
Date Received: 02/08/90
Date Reported: 03/01/90
OLI Contact: E_HOBBS

Work ID: 6271696 Unit 1 Jamaca
Total Samples: 2

Sampling information is based on data supplied by Rick Leach

SAMPLE IDENTIFICATION
01 Unit #1
02 Method Blank

TEST CODES and NAMES used on this report

| | |
|---|---|
| 501R | 17-550 Trihalomethanes |
| 504R | 17-550 "EDB" Analysis |
| 504U | 17-550 "DBCP" Analysis |
| 524R | DER 17-550 Regulated VOA's |
| 524U | DER 17-550 Unregulated VOA |
| 531U | DER 17-550 Unreg Pest 531s |
| 608R | DER 17-550 Reg. Pest 608s |
| 608U | DER 17-550 Unreg Pest 608s |
| 615R | DER 17-550 Reg. Herb 615 |
| 615U | DER 17-550 Unreg Pest 515s |
| 622U | DER 17-550 Unreg Pest 622s |
| 625U | DER 17-550 Unreg BNAs/Pest |
| DERBCT | 17-550 Total Coliform Bact |
| DERPDM | 17-550 Primary Metals Only |
| DERPDW | 17-550 Primary WetChem |
| DERSDM | DER 17-5 Secondary Metals |
| DERSDW | DER 17-5 Secondary Wet Chm |
| DERTRB | 17-550 Turbidity Analysis |
| DER_GA | Gross Alpha (water)17-550 |

Total Coliform: Set date 02/08/90 at 1500 hours
Read date 02/09/90 at 1500 hours

OLI Florida Department of Health & Rehabilitative Service Identification Numbers are:
Drinking Water Certification Number 83141, Environmental Certification Number E83033

Respectfully Submitted,
ORLANDO LABORATORIES, INC.

Acting
LABORATORY DIRECTOR

Eric Malarek
QUALITY CONTROL

*The Analytical Specialists*

ORLANDO LABORATORIES,INC. REPORT OF ANALYSIS Work Order # 90-02-115
Received: 02/08/90 Results by Sample

SAMPLE ID Unit #1 SAMPLE# 01A
DATE COLLECTED 02/07/90 13:00:00 MATRIX WATER
TEST NAME 17-550 Trihalomethanes TEST CODE 501R

SAMPLE TYPE WATER DATE EXTRACTED NA
UNITS ug/l DATE RUN 2/10/90
ANALYST EJP DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-501.2
TRIHALOMETHANE ANALYSIS
17-550.310(2)(C)
(PWS027)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 2950 | TTHM | 1.0 U | 1.0 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-115

SAMPLE ID Unit #1
DATE COLLECTED 02/07/90 13:00:00
TEST NAME 17-550 "EDB" Analysis

SAMPLE# 01A
MATRIX WATER
TEST CODE 504R

SAMPLE TYPE WATER
UNITS ug/l
ANALYST JAB

DATE EXTRACTED 02/08/90
DATE RUN 02/12/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-504
VOLATILE ORGANIC ANALYSIS
17-550.310(2)(D)
(PWS02B)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 2946 | Ethylene dibromide | 0.02 U | 0.02 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-115

SAMPLE ID Unit #1
DATE COLLECTED 02/07/90 13:00:00
TEST NAME 17-550 "DBCP" Analysis

SAMPLE# 01A
MATRIX WATER
TEST CODE 504U

SAMPLE TYPE WATER
UNITS UG/L
ANALYST JAB

DATE EXTRACTED 02/08/90
DATE RUN 02/12/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-504
UNREGULATED ORGANIC PURGEABLE ANALYSIS
17-550.410(1)
(PWS034)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 2931 | 1,2-dibromo-3-chloro propane | 0.02 U | 0.02 |

ORLANDO LABORATORIES, INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-115

SAMPLE ID Unit #1
DATE COLLECTED 02/07/90 13:00:00
TEST NAME DER 17-550 Regulated VOA's

SAMPLE# 01A
MATRIX WATER
TEST CODE 524R

SAMPLE TYPE WATER
UNITS UG/L
ANALYST EJP

DATE EXTRACTED NA
DATE RUN 2/10/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-524
VOLATILE ORGANIC ANALYSIS
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2969 | p-Dichlorobenzene | 0.5 | U | 0.5 |
| 2976 | Vinyl Chloride | 0.5 | U | 0.5 |
| 2977 | 1,1-Dichloroethene | 0.5 | U | 0.5 |
| 2980 | 1,2-Dichloroethane | 0.5 | U | 0.5 |
| 2981 | 1,1,1-Trichloroethane | 0.5 | U | 0.5 |
| 2982 | Carbon Tetrachloride | 0.5 | U | 0.5 |
| 2984 | Trichloroethene | 0.5 | U | 0.5 |
| 2987 | Tetrachloroethene | 0.5 | U | 0.5 |
| 2990 | Benzene | 0.5 | U | 0.5 |

ORLANDO LABORATORIES, INC. REPORT OF ANALYSIS Work Order # 90-02-115
Received: 02/08/90 Results by Sample

SAMPLE ID Unit #1 SAMPLE# 01A
DATE COLLECTED 02/07/90 13:00:00 MATRIX WATER
TEST NAME DER 17-550 Unregulated VOA TEST CODE 524U

SAMPLE TYPE WATER
UNITS UG/L
ANALYST EJP

DATE EXTRACTED NA
DATE RUN 2/10/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-524
UNREGULATED ORGANIC PURGEABLE ANALYSIS
17-550.410(1)
(PWS034)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2210 | Chloromethane | 0.5 | U | 0.5 |
| 2212 | Dichlorodifluoromethane | 0.5 | U | 0.5 |
| 2214 | Bromomethane | 0.5 | U | 0.5 |
| 2216 | Chloroethane | 0.5 | U | 0.5 |
| 2218 | Trichlorofluoromethane | 0.5 | U | 0.5 |
| 2224 | trans-1,3-Dichloro propene | 0.5 | U | 0.5 |
| 2228 | cis-1,3-Dichloropropene | 0.5 | U | 0.5 |
| 2251 | Methyl tert-butyl-ether | 0.5 | U | 0.5 |
| 2380 | cis-1,2-Dichloroethene | 0.5 | U | 0.5 |
| 2408 | Dibromomethane | 0.5 | U | 0.5 |
| 2410 | 1,1-Dichloropropene | 0.5 | U | 0.5 |
| 2412 | 1,3-Dichloropropane | 0.5 | U | 0.5 |
| 2414 | 1,2,3-Trichloropropane | 0.5 | U | 0.5 |
| 2416 | 2,2-Dichloropropane | 0.5 | U | 0.5 |
| 2941 | Chloroform | 0.5 | U | 0.5 |
| 2942 | Bromoform | 0.5 | U | 0.5 |
| 2943 | Bromodichloromethane | 0.5 | U | 0.5 |
| 2944 | Dibromochloromethane | 0.5 | U | 0.5 |
| 2962 | para-Xylene | 0.5 | U | 0.5 |
| 2964 | Methylene Chloride | 0.5 | U | 0.5 |
| 2965 | o-Chlorotoluene | 0.5 | U | 0.5 |
| 2966 | p-Chlorotoluene | 0.5 | U | 0.5 |
| 2967 | meta-Dichlorobenzene | 0.5 | U | 0.5 |
| 2968 | Ortho-Dichlorobenzene | 0.5 | U | 0.5 |
| 2978 | 1,1-Dichloroethane | 0.5 | U | 0.5 |
| 2979 | trans-1,2-Dichloroethene | 0.5 | U | 0.5 |
| 2983 | 1,2-Dichloropropane | 0.5 | U | 0.5 |
| 2985 | 1,1,2-Trichloroethane | 0.5 | U | 0.5 |
| 2986 | 1,1,1,2-Tetrachloro ethane | 0.5 | U | 0.5 |
| 2988 | 1,1,2,2-Tetrachloro ethane | 0.5 | U | 0.5 |
| 2989 | Chlorobenzene | 0.5 | U | 0.5 |

ORLANDO LABORATORIES, INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-115
Continued From Above

SAMPLE ID Unit #1
DATE COLLECTED 02/07/90 13:00:00
TEST NAME DER 17-550 Unregulated VOA

SAMPLE# 01A
MATRIX WATER
TEST CODE 524U

| | | | | |
|---|---|---|---|---|
| 2991 | Toluene | 0.5 | U | 0.5 |
| 2992 | Ethylbenzene | 0.5 | U | 0.5 |
| 2993 | Bromobenzene | 0.5 | U | 0.5 |
| 2995 | meta-Xylene | 0.5 | U | 0.5 |
| 2996 | Styrene | 0.5 | U | 0.5 |
| 2997 | ortho Xylene | 0.5 | U | 0.5 |

ORLANDO LABORATORIES,INC. REPORT OF ANALYSIS Work Order # 90-02-115
Received: 02/08/90 Results by Sample

SAMPLE ID Unit #1 SAMPLE# 01A
DATE COLLECTED 02/07/90 13:00:00 MATRIX WATER
TEST NAME DER 17-550 Unreg Pest 531s TEST CODE 531U

SAMPLE TYPE WATER
UNITS ug/l
ANALYST JAB

DATE EXTRACTED NA
DATE RUN 02/09/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-531
UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PWS035)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2047 | Aldicarb | 2.0 | U | 2 |
| 2043 | Aldicarb Sulfoxide | 2.0 | U | 2 |
| 2044 | Aldicarb Sulfone | 2.0 | U | 2 |
| 2046 | Carbofuran | 1.5 | U | 1.5 |
| 2036 | Oxymyl (Vydate) | 1.0 | U | 1 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-115

SAMPLE ID Unit #1
DATE COLLECTED 02/07/90 13:00:00
TEST NAME DER 17-550 Reg. Pest 608s

SAMPLE# 01A
MATRIX WATER
TEST CODE 608R

SAMPLE TYPE WATER
UNITS ug/l
ANALYST RAB

DATE EXTRACTED 02/13/90
DATE RUN 02/14/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-608
ORGANIC CHEMICAL ANALYSIS
17-550.310(2)(a)
(PWS029)

| Parameter ID | Name | Analysis Result | | Det. Lt. Used |
|---|---|---|---|---|
| 2005 | Endrin | 0.10 | U | 0.10 |
| 2010 | Lindane | 0.05 | U | 0.05 |
| 2015 | Methoxychlor | 0.50 | U | 0.50 |
| 2020 | Toxaphene | 1.00 | U | 1.00 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-115

SAMPLE ID Unit #1
DATE COLLECTED 02/07/90 13:00:00
TEST NAME DER 17-550 Unreg Pest 608s

SAMPLE# 01A
MATRIX WATER
TEST CODE 608U

SAMPLE TYPE WATER
UNITS ug/l
ANALYST RAB

DATE EXTRACTED 02/13/90
DATE RUN 02/14/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-608
UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PWS035)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2065 | Heptachlor | 0.05 | U | 0.05 |
| 2356 | Aldrin | 0.05 | U | 0.05 |
| 2364 | Dieldrin | 0.10 | U | 0.10 |
| 2959 | Chlordane | 0.50 | U | 0.50 |

UNREGULATED BASE NEUTRAL EXTRACTABLE ANALYSIS
17-550.410(3)
(PWS036)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2388 | PCB-1016 | 0.50 | U | 0.5 |
| 2390 | PCB-1221 | 0.50 | U | 0.5 |
| 2392 | PCB-1232 | 0.50 | U | 0.5 |
| 2394 | PCB-1242 | 0.50 | U | 0.5 |
| 2396 | PCB-1248 | 0.50 | U | 0.5 |
| 2398 | PCB-1254 | 1.00 | U | 1.0 |
| 2400 | PCB-1260 | 1.00 | U | 1.0 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-115

SAMPLE ID Unit #1
DATE COLLECTED 02/07/90 13:00:00
TEST NAME DER 17-550 Reg, Herb 615

SAMPLE# 01A
MATRIX WATER
TEST CODE 615R

SAMPLE TYPE WATER
UNITS ug/l
ANALYST RAB

DATE EXTRACTED 02/13/90
DATE RUN 02/16/90
DILUTION FACTOR 5
% MOISTURE NA

METHOD EPA-615
ORGANIC CHEMICAL ANALYSIS
17-550.310(2)(b)
(PWS029)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2105 | 2,4-D | 10 | U | 10 |
| 2110 | 2,4,5-TP (Silvex) | 5 | U | 5 |

ORLANDO LABORATORIES,INC. REPORT OF ANALYSIS Work Order # 90-02-115
Received: 02/08/90 Results by Sample

SAMPLE ID Unit #1 SAMPLE# 01A
DATE COLLECTED 02/07/90 13:00:00 MATRIX WATER
TEST NAME DER 17-550 Unreg Pest 515s TEST CODE 615U

SAMPLE TYPE WATER DATE EXTRACTED 02/13/90
UNITS ug/l DATE RUN 02/16/90
ANALYST RAB DILUTION FACTOR 5
% MOISTURE NA

METHOD EPA-515.1
UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PWS035)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 2031 | Dalapon | 5 U | 5 |
| 2040 | Picloram | 5 U | 5 |
| 2041 | Dinoseb | 10 U | 10 |
| 2440 | Dicamba | 10 U | 10 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-115

SAMPLE ID Unit #1
DATE COLLECTED 02/07/90 13:00:00
TEST NAME DER 17-550 Unreg Pest 622s

SAMPLE# 01A
MATRIX WATER
TEST CODE 622U

SAMPLE TYPE WATER
UNITS mg/l
ANALYST JHW

DATE EXTRACTED 02/08/90
DATE RUN 02/12/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-622
UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PWS035)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2037 | Simazine | 0.5 | U | 0.5 |
| 2045 | Metolachlor | 0.5 | U | 0.5 |
| 2050 | Atrazine | 0.5 | U | 0.5 |
| 2051 | Alachlor (Lasso) | 0.5 | U | 0.5 |

ORLANDO LABORATORIES, INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-115

SAMPLE ID Unit #1
DATE COLLECTED 02/07/90 13:00:00
TEST NAME DER 17-550 Unreg BNAs/Pest

SAMPLE# 01A
MATRIX WATER
TEST CODE 625U

SAMPLE TYPE WATER
UNITS ug/l
ANALYST EJP

DATE EXTRACTED 2/12/90
DATE RUN 2/22/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-625
UNREGULATED BASE NEUTRAL EXTRACTABLE ANALYSIS
17-550.410(3)
(PWS036)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 2262 | Isophorone | 10 U | 10 |
| 2378 | 1,2,4-Trichlorobenzene | 10 U | 10 |
| 2042 | Hexachlorocyclo pentadiene | 10 U | 10 |
| 2282 | Dimethylphthalate | 10 U | 10 |
| 2270 | 2,4-Dinitrotoluene | 10 U | 10 |
| 2284 | Diethylphthalate | 10 U | 10 |
| 2290 | Di-n-butyl phthalate | 10 U | 10 |
| 2294 | Butyl Benzyl Phthalate | 10 U | 10 |
| 2298 | Bis(2-Ethylhexyl) phthalate | 10 U | 10 |
| 9089 | Dioctylphthalate | 10 U | 10 |
| 2063 | 2,3,7,8-TCDD (Dioxin) | 1000 U | 1000 |

UNREGULATED ACID EXTRACTABLE ANALYSIS
17-550.410(4)
(PWS037)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 9108 | 2-Chlorophenol | 10 U | 10 |
| 9112 | 2-Methyl-4,6-Dinitro phenol | 50 U | 50 |
| 9115 | Phenol | 10 U | 10 |
| 9116 | 2,4,6-Trichlorophenol | 10 U | 10 |

UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PWS035)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 2326 | Pentachlorophenol | 50 U | 50 |

[INTENTIONALLY LEFT BLANK]

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-115

SAMPLE ID Unit #1
DATE COLLECTED 02/07/90 13:00:00
TEST NAME DER 17-550 Unreg BNAs/Pest

SAMPLE# 01A
MATRIX WATER
TEST CODE 625U

SAMPLE TYPE WATER
UNITS ug/l
ANALYST EJP

DATE EXTRACTED 2/12/90
DATE RUN 2/22/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-625
UNREGULATED BASE NEUTRAL EXTRACTABLE ANALYSIS
17-550.410(3)
(PWS036)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 2262 | Isophorone | 10 U | 10 |
| 2378 | 1,2,4-Trichlorobenzene | 10 U | 10 |
| 2042 | Hexachlorocyclo pentadiene | 10 U | 10 |
| 2282 | Dimethylphthalate | 10 U | 10 |
| 2270 | 2,4-Dinitrotoluene | 10 U | 10 |
| 2284 | Diethylphthalate | 10 U | 10 |
| 2290 | Di-n-butyl phthalate | 10 U | 10 |
| 2294 | Butyl Benzyl Phthalate | 10 U | 10 |
| 2298 | Bis(2-Ethylhexyl) phthalate | 10 U | 10 |
| 9089 | Dioctylphthalate | 10 U | 10 |
| 2063 | 2,3,7,8-TCDD (Dioxin) | 1000 U | 1000 |

UNREGULATED ACID EXTRACTABLE ANALYSIS
17-550.410(4)
(PWS037)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 9108 | 2-Chlorophenol | 10 U | 10 |
| 9112 | 2-Methyl-4,6-Dinitro phenol | 50 U | 50 |
| 9115 | Phenol | 10 U | 10 |
| 9116 | 2,4,6-Trichlorophenol | 10 U | 10 |

UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PWS035)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 2326 | Pentachlorophenol | 50 U | 50 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-115

SAMPLE ID Unit #1
DATE COLLECTED 02/07/90 13:00:00
TEST NAME 17-550 Total Coliform Bact

SAMPLE# 01A
MATRIX WATER
TEST CODE DERBC1

MICROBIOLOGICAL ANALYSIS
17-550.640

| Parameter ID | Name | Analysis Result(Cfu's/100ml) | Analytical Method |
|---|---|---|---|
| 3000 | Total Coliform | <1/L | EPA Part III B |

Date Set Up: 02/08/90
Date Read : 02/09/90

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-115

SAMPLE ID Unit #1
DATE COLLECTED 02/07/90 13:00:00
TEST NAME 17-550 Primary Metals Only

SAMPLE# 01A
MATRIX WATER
TEST CODE DERPUM

(METALS)
INORGANIC ANALYSIS
17-550.310(1)
(PWS030)

| Parameter ID | Name | Analysis Result(mg/l) | Method | Det.Lt. (mg/l) | Analysis Date |
|---|---|---|---|---|---|
| 1005 | Arsenic | <0.010 | EPA206.2 | 0.010 | 02/14/90 |
| 1010 | Barium | <0.100 | EPA200.7 | 0.100 | 02/14/90 |
| 1015 | Cadmium | <0.005 | EPA213.2 | 0.005 | 02/14/90 |
| 1020 | Chromium | <0.010 | EPA218.2 | 0.010 | 02/15/90 |
| 1030 | Lead | <0.010 | EPA239.2 | 0.010 | 02/14/90 |
| 1035 | Mercury | <0.0005 | EPA245.1 | 0.0005 | 02/15/90 |
| 1045 | Selenium | <0.005 | EPA270.2 | 0.005 | 02/14/90 |
| 1050 | Silver | <0.010 | EPA272.2 | 0.010 | 02/14/90 |
| 1052 | Sodium | 4.16 | EPA200.7 | 0.001 | 02/14/90 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-115

SAMPLE ID Unit #1
DATE COLLECTED 02/07/90 13:00:00
TEST NAME 17-550 Primary WetChem

SAMPLE# 01A
MATRIX WATER
TEST CODE UERPDW

WET CHEMISTRY
SECONDARY CHEMICAL ANALYSIS
17-550.310(1)
(PWS030)

| Parameter ID | Name | Analysis Result(mg/l) | Method | Det.Lt. (mg/l) | Analysis Date |
|---|---|---|---|---|---|
| 1025 | Fluoride | <0.1 | EPA340.2 | 0.1 | 02/13/90 |
| 1040 | Nitrate (as N) | 0.16 | EPA353.2 | 0.03 | 02/13/90 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-115

SAMPLE ID Unit #1
DATE COLLECTED 02/07/90 13:00:00
TEST NAME DER 17-5 Secondary Metals

SAMPLE# 01A
MATRIX WATER
TEST CODE DERSDM

(METALS)
SECONDARY CHEMICAL ANALYSIS
17-550.320
(PWS031)

| Parameter ID | Name | Analysis Result(mg/l) | Method | Det.Lt. (mg/l) | Analysis Date |
|---|---|---|---|---|---|
| 1022 | Copper | <0.010 | EPA200.7 | 0.010 | 02/15/90 |
| 1028 | Iron | <0.100 | EPA200.7 | 0.1 | 02/14/90 |
| 1032 | Manganese | <0.050 | EPA200.7 | 0.050 | 02/14/90 |
| 1095 | Zinc | <0.050 | EPA200.7 | 0.050 | 02/14/90 |
| 1919 | Calcium Hardness | 82.0 | EPA200.7 | 2.5 | 02/14/90 |

ORLANDO LABORATORIES, INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-115

SAMPLE ID Unit #1
DATE COLLECTED 02/07/90 13:00:00
TEST NAME DER 17-5 Secondary Wet Chm

SAMPLE# 01A
MATRIX WATER
TEST CODE UERSUW

WET CHEMISTRY
SECONDARY CHEMICAL ANALYSIS
17-550.320
(PWS031)

| Parameter ID | Name | Analysis Result(mg/l) | Method | Det.Lt. (mg/l) | Analysis Date |
|---|---|---|---|---|---|
| 1017 | Chloride | 4.0 | SM 407 | 1.0 | 02/12/90 |
| 1025 | Fluoride | <0.1 | EPA340.2 | 0.1 | 02/13/90 |
| 1055 | Sulfate | 9.2 | EPA375.4 | 1.0 | 02/13/90 |
| 1901 | Carbon Dioxide | <1 | SM 406 C | 1.0 | 02/15/90 |
| 1905 | Color | <5 | SM 204 A | 5PCU | 02/09/90 |
| 1920 | Odor Threshold | 1 | EPA140.1 | 1TON | 02/09/90 |
| 1927 | Total Alkalinity | 85 | EPA310.1 | 2.0 | 02/09/90 |
| 1930 | Total Dissolved Solids | 100 | EPA160.1 | 1.0 | 02/13/90 |
| 1931 | Phenolphthalein Alk | <2.0 | EPA310.1 | 2.0 | 02/09/90 |
| 1997 | Langelier Index pHs | 7.94 | CALC. | N/A | 02/15/90 |
| 1998 | Saturation Index | 0.36 | CALC. | N/A | 02/15/90 |
| 2909 | Foaming Agents | <0.1 | EPA425.1 | 0.1 | 02/10/90 |

VERIFIED BY DTA

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-115

SAMPLE ID Unit #1
DATE COLLECTED 02/07/90 13:00:00
TEST NAME 17-550 Turbidity Analysis

SAMPLE# 01A
MATRIX WATER
TEST CODE DERTRB

TURBIDITY ANALYSIS
17-550.310(3)
(PWS026)

| Parameter ID | Name | Analysis Result(NTU) | Method | Analysis Date |
|---|---|---|---|---|
| 0100 | Turbidity | <1.0 | EPA180.1 | 02/09/90 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-115

SAMPLE ID Unit #1
DATE COLLECTED 02/07/90 13:00:00
TEST NAME Gross Alpha (water)17-550

SAMPLE# 01A
MATRIX WATER
TEST CODE GER GA

VERIFIED JAB

RADIOLOIGICAL ANALYSIS
17-550.310(5)
(PWS033)

| Parameter ID | Name | Analysis Result(pCi/l) | Method | Analysis Error | Analysis Date |
|---|---|---|---|---|---|
| 4002 | Gross alpha incl radon & uranium | 4.6 | EPA900.0 | 1.4 | 02/26/90 |

ORLANDO LABORATORIES, INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-115

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME 17-550 Trihalomethanes

SAMPLE# 02A
MATRIX METHOD BLANK
TEST CODE 501R

SAMPLE TYPE WATER
UNITS ug/l
ANALYST EJP

DATE EXTRACTED NA
DATE RUN 2/10/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-501.2
TRIHALOMETHANE ANALYSIS
17-550.310(2)(C)
(PWS027)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 2950 | TTHM | 1.0 U | 1.0 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-115

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME 17-550 "EDB" Analysis

SAMPLE# 02A
MATRIX METHOD BLANK
TEST CODE 504R

SAMPLE TYPE WATER
UNITS ug/l
ANALYST JAB

DATE EXTRACTED 02/08/90
DATE RUN 02/12/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-504
VOLATILE ORGANIC ANALYSIS
17-550.310(2)(D)
(PWS028)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 2946 | Ethylene dibromide | 0.02 U | 0.02 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-115

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME 17-550 "DBCP" Analysis

SAMPLE# 02A
MATRIX METHOD BLANK
TEST CODE 504U

SAMPLE TYPE WATER
UNITS UG/L
ANALYST JAB

DATE EXTRACTED 02/08/90
DATE RUN 02/12/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-504
UNREGULATED ORGANIC PURGEABLE ANALYSIS
17-550.410(1)
(PWS034)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 2931 | 1,2-dibromo-3-chloro propane | 0.02 U | 0.02 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-115

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME DER 17-550 Regulated VOA's

SAMPLE# 02A
MATRIX METHOD BLANK
TEST CODE 524R

SAMPLE TYPE WATER
UNITS UG/L
ANALYST EJP

DATE EXTRACTED NA
DATE RUN 2/10/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-524
VOLATILE ORGANIC ANALYSIS
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2969 | p-Dichlorobenzene | 0.5 | U | 0.5 |
| 2976 | Vinyl Chloride | 0.5 | U | 0.5 |
| 2977 | 1,1-Dichloroethene | 0.5 | U | 0.5 |
| 2980 | 1,2-Dichloroethane | 0.5 | U | 0.5 |
| 2981 | 1,1,1-Trichloroethane | 0.5 | U | 0.5 |
| 2982 | Carbon Tetrachloride | 0.5 | U | 0.5 |
| 2984 | Trichloroethene | 0.5 | U | 0.5 |
| 2987 | Tetrachloroethene | 0.5 | U | 0.5 |
| 2990 | Benzene | 0.5 | U | 0.5 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-115

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME DER 17-550 Unregulated VOA

SAMPLE # 02A
MATRIX METHOD BLANK
TEST CODE 524U

SAMPLE TYPE WATER
UNITS UG/L
ANALYST EJP

DATE EXTRACTED NA
DATE RUN 2/10/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-524
UNREGULATED ORGANIC PURGEABLE ANALYSIS
17-550.410(1)
(PWS034)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2210 | Chloromethane | 0.5 | U | 0.5 |
| 2212 | Dichlorodifluoromethane | 0.5 | U | 0.5 |
| 2214 | Bromomethane | 0.5 | U | 0.5 |
| 2216 | Chloroethane | 0.5 | U | 0.5 |
| 2218 | Trichlorofluoromethane | 0.5 | U | 0.5 |
| 2224 | trans-1,3-Dichloro propene | 0.5 | U | 0.5 |
| 2228 | cis-1,3-Dichloropropene | 0.5 | U | 0.5 |
| 2251 | Methyl tert-butyl-ether | 0.5 | U | 0.5 |
| 2380 | cis-1,2-Dichloroethene | 0.5 | U | 0.5 |
| 2408 | Dibromomethane | 0.5 | U | 0.5 |
| 2410 | 1,1-Dichloropropene | 0.5 | U | 0.5 |
| 2412 | 1,3-Dichloropropane | 0.5 | U | 0.5 |
| 2414 | 1,2,3-Trichloropropane | 0.5 | U | 0.5 |
| 2416 | 2,2-Dichloropropane | 0.5 | U | 0.5 |
| 2941 | Chloroform | 0.5 | U | 0.5 |
| 2942 | Bromoform | 0.5 | U | 0.5 |
| 2943 | Bromodichloromethane | 0.5 | U | 0.5 |
| 2944 | Dibromochloromethane | 0.5 | U | 0.5 |
| 2962 | para-Xylene | 0.5 | U | 0.5 |
| 2964 | Methylene Chloride | 0.5 | U | 0.5 |
| 2965 | o-Chlorotoluene | 0.5 | U | 0.5 |
| 2966 | p-Chlorotoluene | 0.5 | U | 0.5 |
| 2967 | meta-Dichlorobenzene | 0.5 | U | 0.5 |
| 2968 | Ortho-Dichlorobenzene | 0.5 | U | 0.5 |
| 2978 | 1,1-Dichloroethane | 0.5 | U | 0.5 |
| 2979 | trans-1,2-Dichloroethene | 0.5 | U | 0.5 |
| 2983 | 1,2-Dichloropropane | 0.5 | U | 0.5 |
| 2985 | 1,1,2-Trichloroethane | 0.5 | U | 0.5 |
| 2986 | 1,1,1,2-Tetrachloro ethane | 0.5 | U | 0.5 |
| 2988 | 1,1,2,2-Tetrachloro ethane | 0.5 | U | 0.5 |
| 2989 | Chlorobenzene | 0.5 | U | 0.5 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-115
Continued From Above

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME OER 17-550 Unregulated VOA

SAMPLE# 02A
MATRIX METHOD BLANK
TEST CODE 524U

| | | | | |
|---|---|---|---|---|
| 2991 | Toluene | 0.5 | U | 0.5 |
| 2992 | Ethylbenzene | 0.5 | U | 0.5 |
| 2993 | Bromobenzene | 0.5 | U | 0.5 |
| 2995 | meta-Xylene | 0.5 | U | 0.5 |
| 2996 | Styrene | 0.5 | U | 0.5 |
| 2997 | ortho Xylene | 0.5 | U | 0.5 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-115

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME DER 17-550 Unreg Pest 531s

SAMPLE# 02A
MATRIX METHOD BLANK
TEST CODE 5310

SAMPLE TYPE WATER
UNITS ug/l
ANALYST JAB

DATE EXTRACTED NA
DATE RUN 02/09/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-531
UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.41D(1)
(PWS035)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2047 | Aldicarb | 2.0 | U | 2 |
| 2043 | Aldicarb Sulfoxide | 2.0 | U | 2 |
| 2044 | Aldicarb Sulfone | 2.0 | U | 2 |
| 2046 | Carbofuran | 1.5 | U | 1.5 |
| 2036 | Oxymyl (Vydate) | 1.0 | U | 1 |

ORLANDO LABORATORIES, INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-115

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME DER 17-550 Reg. Pest 608s

SAMPLE# 02A
MATRIX METHOD BLANK
TEST CODE 608R

SAMPLE TYPE WATER
UNITS ug/l
ANALYST RAB

DATE EXTRACTED 02/13/90
DATE RUN 02/14/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-608
ORGANIC CHEMICAL ANALYSIS
17-550.310(2)(a)
(PWS029)

| Parameter ID | Name | Analysis Result | | Det. l.t. Used |
|---|---|---|---|---|
| 2005 | Endrin | 0.10 | U | 0.10 |
| 2010 | Lindane | 0.05 | U | 0.05 |
| 2015 | Methoxychlor | 0.50 | U | 0.50 |
| 2020 | Toxaphene | 1.00 | U | 1.00 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-115

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME DER 17-550 Unreg Pest 608s

SAMPLE# 02A
MATRIX METHOD BLANK
TEST CODE 608U

SAMPLE TYPE WATER
UNITS ug/l
ANALYST RAB

DATE EXTRACTED 02/13/90
DATE RUN 02/14/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-608
UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PWS035)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 2065 | Heptachlor | 0.05 U | 0.05 |
| 2356 | Aldrin | 0.05 U | 0.05 |
| 2364 | Dieldrin | 0.10 U | 0.10 |
| 2959 | Chlordane | 0.50 U | 0.50 |

UNREGULATED BASE NEUTRAL EXTRACTABLE ANALYSIS
17-550.410(3)
(PWS036)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 2388 | PCB-1016 | 0.50 U | 0.5 |
| 2390 | PCB-1221 | 0.50 U | 0.5 |
| 2392 | PCB-1232 | 0.50 U | 0.5 |
| 2394 | PCB-1242 | 0.50 U | 0.5 |
| 2396 | PCB-1248 | 0.50 U | 0.5 |
| 2398 | PCB-1254 | 1.00 U | 1.0 |
| 2400 | PCB-1260 | 1.00 U | 1.0 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-115

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME DER 17-550 Reg. Herb 615

SAMPLE# 02A
MATRIX METHOD BLANK
TEST CODE 615R

SAMPLE TYPE WATER
UNITS ug/l
ANALYST RAB

DATE EXTRACTED 02/13/90
DATE RUN 02/16/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-615
ORGANIC CHEMICAL ANALYSIS
17-550.310(2)(b)
(PWS029)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2105 | 2,4-D | 2.0 | U | 2 |
| 2110 | 2,4,5-TP (Silvex) | 1.0 | U | 1 |

ORLANDO LABORATORIES, INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-115

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME DER 17-550 Unreg Pest 515s

SAMPLE# 02A
MATRIX METHOD BLANK
TEST CODE 615U

SAMPLE TYPE WATER
UNITS ug/l
ANALYST RAB

DATE EXTRACTED 02/13/90
DATE RUN 02/16/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-515.1
UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PWS035)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 2031 | Dalapon | 1.0 U | 1 |
| 2040 | Picloram | 1.0 U | 1 |
| 2041 | Dinoseb | 2.0 U | 2 |
| 2440 | Dicamba | 2.0 U | 2 |

ORLANDO LABORATORIES,INC. REPORT OF ANALYSIS Work Order # 90-02-115
Received: 02/08/90 Results by Sample

SAMPLE ID Method Blank SAMPLE# 02A
DATE COLLECTED not specified MATRIX METHOD BLANK
TEST NAME DER 17-550 Unreg Pest 622s TEST CODE 622U

SAMPLE TYPE WATER DATE EXTRACTED 02/08/90
UNITS ug/l DATE RUN 02/12/90
ANALYST JHN DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-622
UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PWS035)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 2037 | Simazine | 0.5 U | 0.5 |
| 2045 | Metolachlor | 0.5 U | 0.5 |
| 2050 | Atrazine | 0.5 U | 0.5 |
| 2051 | Alachlor (Lasso) | 0.5 U | 0.5 |

ORLANDO LABORATORIES, INC.
Received: 02/08/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-115

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME DER 17-550 Unreg BNAs/Pest

SAMPLE# 02A
MATRIX METHOD BLANK
TEST CODE 625U

SAMPLE TYPE WATER
UNITS ug/l
ANALYST EJP

DATE EXTRACTED 2/12/90
DATE RUN 2/18/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-625
UNREGULATED BASE NEUTRAL EXTRACTABLE ANALYSIS
17-550.410(3)
(PWS036)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 2262 | Isophorone | 10 U | 10 |
| 2378 | 1,2,4-Trichlorobenzene | 10 U | 10 |
| 2042 | Hexachlorocyclo pentadiene | 10 U | 10 |
| 2282 | Dimethylphthalate | 10 U | 10 |
| 2270 | 2,4-Dinitrotoluene | 10 U | 10 |
| 2284 | Diethylphthalate | 10 U | 10 |
| 2290 | Di-n-butyl phthalate | 10 U | 10 |
| 2294 | Butyl Benzyl Phthalate | 10 U | 10 |
| 2298 | Bis(2-Ethylhexyl) phthalate | 10 U | 10 |
| 9089 | Dioctylphthalate | 10 U | 10 |
| 2063 | 2,3,7,8-TCDD (Dioxin) | 1000 U | 1000 |

UNREGULATED ACID EXTRACTABLE ANALYSIS
17-550.410(4)
(PWS037)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 9108 | 2-Chlorophenol | 10 U | 10 |
| 9112 | 2-Methyl-4,6-Dinitro phenol | 50 U | 50 |
| 9115 | Phenol | 10 U | 10 |
| 9116 | 2,4,6-Trichlorophenol | 10 U | 10 |

UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PWS035)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 2326 | Pentachlorophenol | 50 U | 50 |

ORLANDO LABORATORIES,INC.
Received: 02/08/90

REPORT OF ANALYSIS
NonReported Work

Work Order # 90-02-115

FRACTION AND TEST CODES FOR WORK NOT REPORTED ELSEWHERE

01A : NOTEST

Spring Hill Utilities
Attn: Rick Leach

Report No: 90-02-115
Page No: 36

## QUALITY CONTROL DATA SHEET

| PARAMETER | DUPLICATES % DIFFERENCE | SPIKES % RECOVERY | DATE | ANALYST |
|---|---|---|---|---|
| Barium | <1 | 99 | 02/14/90 | BB |
| Sodium | 1 | 106 | 02/14/90 | BB |
| Iron | <1 | 101 | 02/14/90 | BB |
| Manganese | <1 | 100 | 02/14/90 | BB |
| Zinc | <1 | 104 | 02/14/90 | BB |
| Calcium | 1 | 103 | 02/14/90 | BB |
| Lead | 1 | 91 | 02/14/90 | JC |
| Arsenic | <1 | 92 | 02/14/90 | CFG |
| Silver | <1 | 100 | 02/14/90 | CFG |
| Mercury | 2 | 99 | 02/15/90 | EM |
| Selenium | <1 | 92 | 02/14/90 | CFG |
| Cadmium | <1 | 104 | 02/14/90 | CFG |
| Chromium | 7 | 102 | 02/15/90 | CJP |
| Copper | <1 | 97 | 02/15/90 | CFG |
| Color | <1 | N/A | 02/09/90 | DR |
| Odor | <1 | N/A | 02/09/90 | DR |
| Nitrogen, Nitrite | <1 | 88 | 02/10/90 | DB |
| Turbidity | <1 | N/A | 02/09/90 | DR |
| pH | 1 | N/A | 02/09/90 | DA |
| Total Alkalinity | 6 | 116 | 02/09/90 | DA |
| Chloride | 5 | 105/110 | 02/12/90 | DA |
| Sulfate | 4 | 112 | 02/13/90 | SRK |
| TDS | 2 | 94/96 | 02/13/90 | DB |
| Fluoride | 4 | 107/103 | 02/12/90 | DA |
| Nitrogen, Nitrate | <1 | 99 | 02/13/90 | DR |
| MBAS | <1 | 92 | 02/10/90 | DR |
| Gross Alpha | 0.0 | 91 | 02/27/90 | JAB |

Note: The duplicate for Gross Alpha is reported as actual difference rather than percent difference as specified.

ORLANDO LABORATORIES, INC.

GC ORGANICS



# MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 02-16-1990

LAB SAMPLE # : 9002115-01A
ANALYSIS DATE : 02/14/90

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| GAMMA-BHC (LINDANE) | 100 | 0 | 117 | 117 | 117 | 117 | 0 |
| HEPTACHLOR | 100 | 0 | 122 | 122 | 123 | 123 | 1 |
| ALDRIN | 100 | 0 | 97 | 97 | 95 | 95 | 2 |
| DIELDRIN | 100 | 0 | 90 | 90 | 88 | 88 | 2 |
| ENDRIN | 100 | 0 | 90 | 90 | 88 | 88 | 2 |
| 4,4-DDT | 100 | 0 | 67 | 67 | 68 | 68 | 1 |

COMMENTS :

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| GAMMA-BHC (LINDANE) | 56 | 123 | 15 | 46 | 127 | 50 |
| HEPTACHLOR | 40 | 131 | 20 | 35 | 130 | 31 |
| ALDRIN | 40 | 120 | 22 | 34 | 132 | 43 |
| DIELDRIN | 52 | 126 | 18 | 31 | 134 | 38 |
| ENDRIN | 56 | 121 | 21 | 42 | 139 | 45 |
| 4,4-DDT | 38 | 127 | 27 | 23 | 134 | 50 |

ORLANDO LABORATORIES, INC.

GC ORGANICS



# MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 02-15-1990

LAB SAMPLE # : 9002115-01A
ANALYSIS DATE : 02/09/90

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD % RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| ALDICARB | 186 | 0 | 182 | 102 | 94 | 94 | 8 |

COMMENTS :

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| ALDICARB | 77 | 127 | 28 | 72 | 132 | 28 |

ORLANDO LABORATORIES, INC.

GC ORGANICS



# MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 02-13-1990

LAB SAMPLE # : 9002084-01A
ANALYSIS DATE : 02/12/90

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| ETHYLENE DIBROMIDE | 100 | 0 | 59 | 59 | 59 | 59 | 0 |

COMMENTS :

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| ETHYLENE DIBROMIDE | 36 | 92 | 20 | 45 | 90 | 20 |

ORLANDO LABORATORIES, INC.



# MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 02-13-1990

LAB SAMPLE # : 9002085-01A
ANALYSIS DATE : 02/12/90

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| diazinon | 166 | 0 | 93 | 93 | 96 | 96 | 3 |

COMMENTS :

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| diazinon | 47 | 147 | 18 | 36 | 174 | 28 |

ORLANDO LABORATORIES INC.

GC/MS VOLATILE ORGANICS



MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 02-10-1990

LAB SAMPLE # : 9002118-1
ANALYSIS DATE : 2/10/90

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| 1,1-dichloroethene | 50 | 0 | 56 | 112 | 53 | 106 | 6 |
| trichloroethene | 50 | 0 | 51 | 102 | 49 | 98 | 4 |
| benzene | 50 | 0 | 55 | 110 | 46 | 92 | 18 * |
| toluene | 50 | 0 | 58 | 116 | 53 | 106 | 9 |
| chlorobenzene | 50 | 0 | 50 | 100 | 49 | 98 | 2 |

COMMENTS : * = parameter outside QC limits.

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| 1,1-dichloroethene | 61 | 145 | 14 | 59 | 172 | 22 |
| trichloroethene | 71 | 120 | 14 | 62 | 137 | 24 |
| benzene | 76 | 127 | 11 | 66 | 142 | 21 |
| toluene | 76 | 125 | 13 | 59 | 139 | 21 |
| chlorobenzene | 75 | 130 | 13 | 60 | 133 | 21 |

ORLANDO LABORATORIES INC.

GC/MS SEMI-VOLATILE ORGANICS



MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 02-23-1990

LAB SAMPLE # : 90-02-144-1
ANALYSIS DATE : 2/22/90

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| phenol | 200 | 0 | 125 | 63 | 119 | 60 | 5 |
| 2-chlorophenol | 200 | 0 | 186 | 93 | 186 | 93 | 0 |
| 4-chloro-3-methylphenol | 200 | 0 | 132 | 66 | 126 | 63 | 5 |
| 4-nitrophenol | 200 | 0 | 184 | 92 * | 170 | 85 | 8 |
| pentachlorophenol | 200 | 0 | 246 | 123 * | 235 | 118 * | 5 |
| 1,4-dichlorobenzene | 100 | 0 | 103 | 103 * | 99 | 99 * | 4 |
| n-nitroso-di-n-propylamine | 100 | 0 | 142 | 142 * | 133 | 133 * | 7 |
| 1,2,4-trichlorobenzene | 100 | 0 | 101 | 101 * | 94 | 94 | 7 |
| acenaphthene | 100 | 0 | 121 | 121 * | 114 | 114 | 6 |
| 2,4-dinitrotoluene | 100 | 0 | 131 | 131 * | 127 | 127 * | 3 |
| pyrene | 100 | 0 | 103 | 103 | 96 | 96 | 7 |

COMMENTS : * = parameter outside QC limits.

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| phenol | 12 | 89 | 42 | 26 | 90 | 35 |
| 2-chlorophenol | 27 | 123 | 40 | 25 | 102 | 50 |
| 4-chloro-3-methylphenol | 23 | 97 | 42 | 26 | 103 | 33 |
| 4-nitrophenol | 10 | 90 | 50 | 11 | 114 | 50 |
| pentachlorophenol | 25 | 103 | 50 | 17 | 109 | 47 |
| 1,4-dichlorobenzene | 36 | 97 | 28 | 28 | 104 | 27 |
| n-nitroso-di-n-propylamine | 41 | 116 | 38 | 41 | 126 | 38 |
| 1,2,4-trichlorobenzene | 39 | 98 | 28 | 38 | 107 | 23 |
| acenaphthene | 46 | 118 | 31 | 31 | 137 | 19 |
| 2,4-dinitrotoluene | 24 | 102 | 38 | 28 | 95 | 47 |
| pyrene | 26 | 127 | 31 | 35 | 142 | 36 |

ORLANDO LABORATORIES, INC.



# MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 02-19-1990

LAB SAMPLE # : 9002115-01A
ANALYSIS DATE : 02/16/90

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| DALAPON | 100 | 0 | 125 | 125 | 132 | 132 | 5 |
| 2,4,5-TP (SILVEX) | 100 | 0 | 99 | 99 | 108 | 108 | 9 |
| PICLORAM | 100 | 0 | 104 | 104 | 108 | 108 | 4 |

COMMENTS :

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| DALAPON | 95 | 175 | 20 | 95 | 175 | 20 |
| 2,4,5-TP (SILVEX) | 95 | 175 | 20 | 95 | 175 | 20 |
| PICLORAM | 95 | 175 | 20 | 95 | 175 | 20 |

End of Report

0503

ORLANDO LABORATORIES, INC.
P.O. Box 149127, Orlando FL 32814
(407) 896-6645 FAX (407) 896-5588

# CHAIN-OF-CUSTODY RECORD
(INSTRUCTIONS ON BACK)

Page ____ of ____

№ 03303

| 1 INVOICE TO (COMPANY AND INDIVIDUAL) | ADDRESS (CITY STATE ZIP) | 2 CONTACT PERSON PHONE # INVOICE | 3 CL WORK ORDER # (LAB USE) |
|---|---|---|---|
| Spring Hill Utilities | 9500 Eldridge Rd Spring Hill FL 34608 | (904) 683-2715 | 960211S |
| **4 ORIGINAL REPORT TO (COMPANY AND INDIVIDUAL)** | **ADDRESS (CITY STATE ZIP)** | **5 CONTACT PERSON PHONE # REPORT** | **6 RB NUMBER (LAB USE)** |
| SAME | SAME | SAME | 560 |
| **7 (OPTIONAL) ADDITIONAL REPORTS SENT TO** | **ADDRESS (CITY, STATE, ZIP)** | | |
| | | | |
| **8 CLIENT PROJECT NAME** | **9 CLIENT PROJECT #** | | |
| UNIT #1 JAMACA 6271696 | 6271696 | | |

| 10 SAMPLE IDENTIFICATION | 11 DATE/TIME | 12 COMP | GRAB | WATER | SOIL | OTHER | 13 SAMPLE DESCRIPTION | 17 NUMBER OF CONTAINERS | 18 REQUESTED ANALYSIS | 19 REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| | 2-7-90 1:00 PM | | X | | | | The whole KIT | 12 | | |

| TRANSFER NUMBER | 14 RELINQUISHED BY | 15 DATE/TIME | 16 ACCEPTED BY |
|---|---|---|---|
| 1st | [signature] | 2-8-90 10:30 | [signature] |
| 2nd | | | |
| 3rd | | | |

20 ADDITIONAL REMARKS

21 COOLER # 207

22 SAMPLER'S SIGNATURE [signature]

ORIGINAL - LAB
YELLOW - FILE
PINK - CLIENT

SSU
SERVICES

**Spring Hill Office**
9500 Eldridge Rd.
Spring Hill, FL 34608
(904) 683-2518

Feb. 28, 1991

Ms. Cece Featheringill
Department of Environmental Regulation
4520 Oak Fair Blvd.
Tampa, Fla. 33610

Dear Ms. Featheringill:

We are enclosing results of the VOC's for the first quarter of this year for Spring Hill Utilities.

If any other information is needed, please let us know.

Very truly yours,

John W. Williams
General Manager

Enc.

cc: Chris Arcand
Clara Dozier

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU
9500 Eldridge Rd.
SpringHill,FL 34608

Date Reported: Feb25 1991
PO Number: B91023

PO Number
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WELLS 2,6,7,10
Date Received: Feb13 1991 Lab Number : 16294

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PPC | 16294 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 89.4 | .189 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 92.8 | 8.73 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 94.2 | 1.73 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 94.2 | 1.73 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 97.0 | 1.37 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 91.1 | 2.77 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 91.5 | 2.91 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 91.8 | 1.45 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 92.5 | .588 | <0.001 |
| Benzene | mg/L | 0.001 | 88.9 | 1.71 | <0.001 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



Jefferson S. Flowers Ph.D
Jefferson S. Flowers Ph.D
485 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984
FAX (407) 260-6110

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU
9500 Eldridge Rd.
SpringHill,FL 34608

Date Reported: Feb25 1991
PO Number: B91023

PO Number
FDHRS Lab# : 93139
FDEP Lab# : E83018
NCDENR Lab# : 296
SCDHEC Lab# : 96019

For: WELLS 11,12,13,17
Date Received: Feb13 1991 Lab Number : 16295

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16295 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 89.4 | .189 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 92.8 | 8.73 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 94.2 | 1.73 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 94.2 | 1.73 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 87.0 | 1.37 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 91.1 | 2.77 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 91.5 | 2.91 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 91.9 | 1.45 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 92.5 | .588 | <0.001 |
| Benzene | mg/L | 0.001 | 88.9 | 1.71 | <0.001 |

Data Release Authorization

Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



Jefferson L Flowers PhD
Jefferson S Flowers PhD
481 NEWBURYPORT
P O BOX 150 597
ALTAMONTE SPRINGS
FLORIDA 32715 0597
BUS (407) 339 5784
FAX (407) 260 0892

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
9500 Eldridge Rd.
SpringHill,FL 34608

Date Reported: Feb25 1991
PO Number: B91023

PO Number
FDHRS Lab# : 83139
FDER Lab# : EB3018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WELLS 18,19,20,21
Date Received: Feb13 1991 Lab Number : 16296

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PPC | 16296 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 89.4 | .189 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 92.8 | 9.73 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 94.2 | 1.73 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 94.2 | 1.73 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 87.0 | 1.37 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 91.1 | 2.77 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 91.5 | 2.91 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 91.8 | 1.45 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 92.5 | .588 | <0.001 |
| Benzene | mg/L | 0.001 | 88.9 | 1.71 | <0.001 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



Jefferson L. Flowers PhD
Jefferson S. Flowers PhD
481 NEWBURYPORT
P.O. BOX 150 597
ALTAMONTE SPRINGS
FLORIDA 32715 0597
BUS (407) 339 5784
FAX (407) 260 6110

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
9500 Eldridge Rd.
SpringHill,FL 34608

Date Reported: Feb25 1991
PO Number: B91023

PO Number
FDHRS Lab# : 83139
FDEP Lab# : E93018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WELLS 22,23,24,26
Date Received: Feb13 1991 Lab Number : 16297

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16297 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 89.4 | .199 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 92.8 | 8.73 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 94.2 | 1.79 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 94.2 | 1.79 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 97.0 | 1.37 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 91.1 | 3.77 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 91.5 | 2.91 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 91.8 | 1.45 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 92.5 | .588 | <0.001 |
| Benzene | mg/L | 0.001 | 88.9 | 1.71 | <0.001 |

Data Release Authorization

Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



Jefferson L. Flowers Ph.D
Jefferson S. Flowers Ph.D
481 NEWBURYPORT
P.O. BOX 150 597
ALTAMONTE SPRINGS
FLORIDA 32715 0597
PH (407) 332 5566
FAX (407) 260 6170

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number:_____
Public Water System Name Spring Hill
Public Water System Type (check one):
( )Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyzi Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number 16294
Sample Location (be specific): _____
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
( )Raw ( )Well ( )Resampl
( )Special_____
Sampler Name, Title Phone:_____
_____

**ANALYSIS INFORMATION**
Extraction Date ___/___/____
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTEI Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature:_____

Name Dr. Jefferson S Flowers

Title Technical Director

Laboratory Flowers Chemical Laboratories,Inc.

Date 2/23/91

Mail Results to the
Appropriate DER or ACPHU Office:
_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 06/01/8 () Satisfactory () Unsatisfactory

Volatile Organic Analysis
17-550.310(2)(d)
(PWS029)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 16294 | .00002 | <0.000005 | EPA504.1 | .000005 | 2/21/91 |
| 2969 | Para-dichlorobenzene | 16294 | .075 | <0.001 | EPA502.2 | 0.001 | 2/21/91 |
| 2976 | Vinyl chloride | 16294 | 0.001 | <0.001 | EPA502.2 | 0.001 | 2/21/91 |
| 2977 | 1,1-dichloroethene | 16294 | 0.007 | <0.001 | EPA502.2 | 0.001 | 2/21/91 |
| 2980 | 1,2-dichloroethane | 16294 | 0.003 | <0.001 | EPA502.2 | 0.001 | 2/21/91 |
| 2981 | 1,1,1-trichloroethane | 16294 | 0.2 | <0.001 | EPA502.2 | 0.001 | 2/21/91 |
| 2982 | Carbon tetrachloride | 16294 | 0.003 | <0.001 | EPA502.2 | 0.001 | 2/21/91 |
| 2984 | Trichloroethene | 16294 | 0.003 | <0.001 | EPA502.2 | 0.001 | 2/21/91 |
| 2987 | Tetrachloroethene | 16294 | 0.003 | <0.001 | EPA502.2 | 0.001 | 2/21/91 |
| 2990 | Benzene | 16294 | 0.001 | <0.001 | EPA502.2 | 0.001 | 2/21/91 |

Comments:

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number:
Public Water System Name Spring Hill
Public Water System Type (check one):
( )Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyzed Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number 16295
Sample Location (be specific): _____
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
( )Raw ( )Well ( )Resample
( )Special_____
Sampler Name, Title Phone:_____
_____

**ANALYSIS INFORMATION**
Extraction Date ___/___/____
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTED Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature:

Name Dr. Jefferson S Flowers

Title Technical Director

Laboratory Flowers Chemical Laboratories,Inc.

Date 2/23/91

Mail Results to the Appropriate DER or ACPHU Office:
_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 06/01/( () Satisfactory () Unsatisfactory

Volatile Organic Analysis
17-550.310(2)(d)
(PWS029)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 16295 | .00002 | <0.000005 | EPA504.1 | .000005 | 2/21/91 |
| 2969 | Para-dichlorobenzene | 16295 | .075 | <0.001 | EPA502.2 | 0.001 | 2/21/91 |
| 2976 | Vinyl chloride | 16295 | 0.001 | <0.001 | EPA502.2 | 0.001 | 2/21/91 |
| 2977 | 1,1-dichloroethene | 16295 | 0.007 | <0.001 | EPA502.2 | 0.001 | 2/21/91 |
| 2980 | 1,2-dichloroethane | 16295 | 0.003 | <0.001 | EPA502.2 | 0.001 | 2/21/91 |
| 2981 | 1,1,1-trichloroethane | 16295 | 0.2 | <0.001 | EPA502.2 | 0.001 | 2/21/91 |
| 2982 | Carbon tetrachloride | 16295 | 0.003 | <0.001 | EPA502.2 | 0.001 | 2/21/91 |
| 2984 | Trichloroethene | 16295 | 0.003 | <0.001 | EPA502.2 | 0.001 | 2/21/91 |
| 2987 | Tetrachloroethene | 16295 | 0.003 | <0.001 | EPA502.2 | 0.001 | 2/21/91 |
| 2990 | Benzene | 16295 | 0.001 | <0.001 | EPA502.2 | 0.001 | 2/21/91 |

Comments:

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number:_____
Public Water System Name ___Spring Hill
Public Water System Type (check one):
( )Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyze Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number 16296
Sample Location (be specific): _____
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
( )Raw ( )Well ( )Resample
( )Special_____
Sampler Name, Title Phone:_____
_____

**ANALYSIS INFORMATION**
Extraction Date ___/___/____
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTED Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature:_____

Name Dr Jefferson S Flowers

Title Technical Director

Laboratory Flowers Chemical Laboratories,Inc.

Date 2/23/91

Mail Results to the
Appropriate DER or ACPHU Office:
_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 06/01/8 () Satisfactory () Unsatisfactory

Volatile Organic Analysis
17-550.310(2)(d)
(PWS029)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 16296 | .00002 | <0.000005 | EPA504.1 | .000005 | 2/21/91 |
| 2969 | Para-dichlorobenzene | 16296 | .075 | <0.001 | EPA502.2 | 0.001 | 2/21/91 |
| 2976 | Vinyl chloride | 16296 | 0.001 | <0.001 | EPA502.2 | 0.001 | 2/21/91 |
| 2977 | 1,1-dichloroethene | 16296 | 0.007 | <0.001 | EPA502.2 | 0.001 | 2/21/91 |
| 2980 | 1,2-dichloroethane | 16296 | 0.003 | <0.001 | EPA502.2 | 0.001 | 2/21/91 |
| 2981 | 1,1,1-trichloroethane | 16296 | 0.2 | <0.001 | EPA502.2 | 0.001 | 2/21/91 |
| 2982 | Carbon tetrachloride | 16296 | 0.003 | <0.001 | EPA502.2 | 0.001 | 2/21/91 |
| 2984 | Trichloroethene | 16296 | 0.003 | <0.001 | EPA502.2 | 0.001 | 2/21/91 |
| 2987 | Tetrachloroethene | 16296 | 0.003 | <0.001 | EPA502.2 | 0.001 | 2/21/91 |
| 2990 | Benzene | 16296 | 0.001 | <0.001 | EPA502.2 | 0.001 | 2/21/91 |

Comments:

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number:
Public Water System Name Spring Hill
Public Water System Type (check one):
( )Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS #3139
Parameter Group(s) Analyz: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number 16297
Sample Location (be specific): _____
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
( )Raw ( )Well ( )Resample
( )Special_____
Sampler Name, Title Phone:_____
_____

**ANALYSIS INFORMATION**
Extraction Date ___/___/____
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTEI Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature:

Name Dr. Jefferson S Flowers

Title Technical Director

Laboratory Flowers Chemical Laboratories,Inc.

Date 2/23/91

Mail Results to the Appropriate DER or ACPHU Office:
_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 06/01/8 () Satisfactory () Unsatisfactory

Volatile Organic Analysis
17-550.310(2)(d)
(PWS029)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 16297 | .00002 | <0.000005 | EPA504.1 | .000005 | 2/21/91 |
| 2969 | Para-dichlorobenzene | 16297 | .075 | <0.001 | EPA502.2 | 0.001 | 2/21/91 |
| 2976 | Vinyl chloride | 16297 | 0.001 | <0.001 | EPA502.2 | 0.001 | 2/21/91 |
| 2977 | 1,1-dichloroethene | 16297 | 0.007 | <0.001 | EPA502.2 | 0.001 | 2/21/91 |
| 2980 | 1,2-dichloroethane | 16297 | 0.003 | <0.001 | EPA502.2 | 0.001 | 2/21/91 |
| 2981 | 1,1,1-trichloroethane | 16297 | 0.2 | <0.001 | EPA502.2 | 0.001 | 2/21/91 |
| 2982 | Carbon tetrachloride | 16297 | 0.003 | <0.001 | EPA502.2 | 0.001 | 2/21/91 |
| 2984 | Trichloroethene | 16297 | 0.003 | <0.001 | EPA502.2 | 0.001 | 2/21/91 |
| 2987 | Tetrachloroethene | 16297 | 0.003 | <0.001 | EPA502.2 | 0.001 | 2/21/91 |
| 2990 | Benzene | 16297 | 0.001 | <0.001 | EPA502.2 | 0.001 | 2/21/91 |

Comments:

SSU
SERVICES

**Spring Hill Office**
9500 Eldridge Rd.
Spring Hill, FL 34608
(904) 683-2518

May 20, 1991

Ms Cece Featheringill
Department of Environmental Regulation
4520 Oak Fair Boulevard
Tampa, Florida 33610

Dear Ms Featheringill:

We are enclosing results of the VOC's for the second quarter of this year for the Spring Hill System. water

If any other information is needed, please let us know.

Very truly yours,

John W Williams

JOHN W. WILLIAMS,
Regional Manager

Encl

cc: Chris Arcand
Clara Dozier
File

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
Spring Hill Util.
9500 Eldridge Rd.
SpringHill,FL 34608

Date Reported: May14 1991
PO Number: B91023
PO Number Spring Hill U
FDHRS Lab# : 83139
FDER Lab# : EB3018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 7,12,18,20
Date Received: May 3 1991 Lab Number : 16817

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16817 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 108 | 2.28 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 103 | .700 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 113 | .000 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 113 | .000 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 101 | 1.69 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 117 | .642 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 115 | 1.29 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 119 | .842 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 104 | 1.12 | <0.001 |
| Benzene | mg/L | 0.001 | 115 | 1.34 | <0.001 |

Data Release Authorization

Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FLL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



Jefferson L. Flowers, Ph.D
Jefferson S. Flowers, Ph.D
481 NEWBURYPORT
P.O. BOX 150 597
ALTAMONTE SPRINGS
FLORIDA 32715 0597
BUS (407) 339 5984
FAX (407) 260 6119

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
Spring Hill Util.
9500 Eldridge Rd.
SpringHill,FL 34608

Date Reported: May14 1991
PO Number: 891023
PO Number Spring Hill U
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 24,13,17,19
Date Received: May 3 1991 Lab Number : 16818

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16818 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 108 | 2.28 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 103 | .700 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 113 | .000 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 113 | .000 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 101 | 1.60 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 117 | .642 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 115 | 1.30 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 110 | .542 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 104 | 1.18 | <0.001 |
| Benzene | mg/L | 0.001 | 115 | 1.34 | <0.001 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



Jefferson L Flowers PhD
Jefferson S Flowers PhD
441 NEWBURYPORT
P O BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS 407 339 5984
FAX 407 260-4440

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
Spring Hill Util.
9500 Eldridge Rd.
SpringHill,FL 34608

Date Reported: May14 1991
PO Number: B91023
PO Number Spring Hill U
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 2,6,21,23
Date Received: May 3 1991 Lab Number : 16819

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16819 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 108 | 2.28 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 103 | .700 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 113 | .000 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 113 | .000 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 101 | 1.60 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 117 | .642 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 115 | 1.30 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 110 | .542 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 104 | 1.18 | <0.001 |
| Benzene | mg/L | 0.001 | 115 | 1.34 | <0.001 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



Jefferson L. Flowers, Ph.D
Jefferson S. Flowers, Ph.D
481 NEWBURYPORT
P.O. BOX 150 597
ALTAMONTE SPRINGS
FLORIDA 32715 0597
BUS (407) 339 5994
FAX (407) 260 6116

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
Spring Hill Util.
9500 Eldridge Rd.
SpringHill,FL 34608

Date Reported: May14 1991
PO Number: B91023
PO Number Spring Hill U
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 10,11,22,26
Date Received: May 3 1991 Lab Number : 16820

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16820 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 108 | 2.28 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 103 | .700 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 113 | .000 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 113 | .000 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 101 | 1.60 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 117 | .642 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 115 | 1.30 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 110 | .542 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 104 | 1.18 | <0.001 |
| Benzene | mg/L | 0.001 | 115 | 1.34 | <0.001 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



Jefferson L. Flowers, Ph.D
Jefferson S. Flowers, Ph.D
461 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5584
FAX (407) 260-6110

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 2671696
Public Water System Name Spring Hill Utilities
Public Water System Type (check one):
(X)Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyzed: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number 16817
Sample Location (be specific): well 7, 12, 18, 20
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
(X)Raw ( )Well ( )Resample
( )Special_____
Sampler Name, Title Phone: Ricky Leach operator III
683-1267

**ANALYSIS INFORMATION**
Extraction Date 5/2/91
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTED: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature: _____

Name Dr Jefferson S Flowers

Title Technical Director

Laboratory Flowers Chemical Laboratories,Inc.

Date 5/13/91

Mail Results to the Appropriate DER or ACPHU Office:

_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 06/01/8 () Satisfactory () Unsatisfactory

Volatile Organic Analysis
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 16817 | .00002 | <.000005 | EPA504.1 | .000005 | 5/9/91 |
| 2969 | Para-dichlorobenzene | 16817 | .075 | <0.001 | EPA502.2 | 0.001 | 5/11/91 |
| 2976 | Vinyl chloride | 16817 | 0.001 | <0.001 | EPA502.2 | 0.001 | 5/11/91 |
| 2977 | 1,1-dichloroethene | 16817 | 0.007 | <0.001 | EPA502.2 | 0.001 | 5/11/91 |
| 2980 | 1,2-dichloroethane | 16817 | 0.003 | <0.001 | EPA502.2 | 0.001 | 5/11/91 |
| 2981 | 1,1,1-trichloroethane | 16817 | 0.2 | <0.001 | EPA502.2 | 0.001 | 5/11/91 |
| 2982 | Carbon tetrachloride | 16817 | 0.003 | <0.001 | EPA502.2 | 0.001 | 5/11/91 |
| 2984 | Trichloroethene | 16817 | 0.003 | <0.001 | EPA502.2 | 0.001 | 5/11/91 |
| 2987 | Tetrachloroethene | 16817 | 0.003 | <0.001 | EPA502.2 | 0.001 | 5/11/91 |
| 2990 | Benzene | 16817 | 0.001 | <0.001 | EPA502.2 | 0.001 | 5/11/91 |

Comments:

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 2671696
Public Water System Name Spring Hill Utilities
Public Water System Type (check one):
(X)Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyzed Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number 16818
Sample Location (be specific): Z well 24, 13, 17, 19
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
(X)Raw ( )Well ( )Resample
( )Special_____
Sampler Name, Title Phone: Ricky Leavit operator IV
_____

**ANALYSIS INFORMATION**
Extraction Date 5/2/91
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTED Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature:

Name **Dr Jefferson S Flowers**

Title **Technical Director**

Laboratory **Flowers Chemical Laboratories,Inc.**

Date 5/13/91

Mail Results to the
Appropnate DER or ACPHU Office:
_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 06/01/8 () Satisfactory () Unsatisfactory

Volatile Organic Analysis
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 16818 | .00002 | <.000005 | EPA504.1 | .000005 | 5/9/91 |
| 2969 | Para-dichlorobenzene | 16818 | .075 | <0.001 | EPA502.2 | 0.001 | 5/11/91 |
| 2976 | Vinyl chloride | 16818 | 0.001 | <0.001 | EPA502.2 | 0.001 | 5/11/91 |
| 2977 | 1,1-dichloroethene | 16818 | 0.007 | <0.001 | EPA502.2 | 0.001 | 5/11/91 |
| 2980 | 1,2-dichloroethane | 16818 | 0.003 | <0.001 | EPA502.2 | 0.001 | 5/11/91 |
| 2981 | 1,1,1-trichloroethane | 16818 | 0.2 | <0.001 | EPA502.2 | 0.001 | 5/11/91 |
| 2982 | Carbon tetrachloride | 16818 | 0.003 | <0.001 | EPA502.2 | 0.001 | 5/11/91 |
| 2984 | Trichloroethene | 16818 | 0.003 | <0.001 | EPA502.2 | 0.001 | 5/11/91 |
| 2987 | Tetrachloroethene | 16818 | 0.003 | <0.001 | EPA502.2 | 0.001 | 5/11/91 |
| 2990 | Benzene | 16818 | 0.001 | <0.001 | EPA502.2 | 0.001 | 5/11/91 |

Comments:

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 2671696
Public Water System Name Spring Hill Utilities
Public Water System Type (check one):
(X)Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyzed Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number 16819
Sample Location (be specific): well 2, 6, 21, 23
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
(X)Raw ( )Well ( )Resample
( )Special_____
Sampler Name, Title Phone: Ricky Leach Operator III
683-1267

**ANALYSIS INFORMATION**
Extraction Date 5/2/91
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTED Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature:_____

Name **Dr. Jefferson S Flowers**

Title **Technical Director**

Laboratory **Flowers Chemical Laboratories,Inc.**

Date 5/13/91

Mail Results to the
Appropriate DER or ACPHU Office:
_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 06/01/9 () Satisfactory () Unsatisfactory

Volatile Organic Analysis
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 16819 | .00002 | <.000005 | EPA504.1 | .000005 | 5/9/91 |
| 2969 | Para-dichlorobenzene | 16819 | .075 | <0.001 | EPA502.2 | 0.001 | 5/11/91 |
| 2976 | Vinyl chloride | 16819 | 0.001 | <0.001 | EPA502.2 | 0.001 | 5/11/91 |
| 2977 | 1,1-dichloroethene | 16819 | 0.007 | <0.001 | EPA502.2 | 0.001 | 5/11/91 |
| 2980 | 1,2-dichloroethane | 16819 | 0.003 | <0.001 | EPA502.2 | 0.001 | 5/11/91 |
| 2981 | 1,1,1-trichloroethane | 16819 | 0.2 | <0.001 | EPA502.2 | 0.001 | 5/11/91 |
| 2982 | Carbon tetrachloride | 16819 | 0.003 | <0.001 | EPA502.2 | 0.001 | 5/11/91 |
| 2984 | Trichloroethene | 16819 | 0.003 | <0.001 | EPA502.2 | 0.001 | 5/11/91 |
| 2987 | Tetrachloroethene | 16819 | 0.003 | <0.001 | EPA502.2 | 0.001 | 5/11/91 |
| 2990 | Benzene | 16819 | 0.001 | <0.001 | EPA502.2 | 0.001 | 5/11/91 |

Comments:

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 2671696
Public Water System Name Spring Hill Utilities
Public Water System Type (check one):
(X)Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyzed Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number 15820
Sample Location (be specific): Wells 10, 11, 22, 26
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
(X)Raw ( )Well ( )Resample
( )Special_____
Sampler Name, Title Phone: Ricky Leach Operator II
685-1267

**ANALYSIS INFORMATION**
Extraction Date 5/2/91
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTED Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature

Name **Dr. Jefferson S Flowers**

Title **Technical Director**

Laboratory **Flowers Chemical Laboratories,Inc.**

Date 5/13/91

Mail Results to the Appropriate DER or ACPHU Office:

DER /ACPHU Reviewing Offical:

PWSA.01 Sample Interpretation (check one):
Effective 06/01/9 () Satisfactory () Unsatisfactory

Volatile Organic Analysis
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 16820 | .00002 | <.000005 | EPA504.1 | .000005 | 5/9/91 |
| 2969 | Para-dichlorobenzene | 16820 | .075 | <0.001 | EPA502.2 | 0.001 | 5/11/91 |
| 2976 | Vinyl chloride | 16820 | 0.001 | <0.001 | EPA502.2 | 0.001 | 5/11/91 |
| 2977 | 1,1-dichloroethene | 16820 | 0.007 | <0.001 | EPA502.2 | 0.001 | 5/11/91 |
| 2980 | 1,2-dichloroethane | 16820 | 0.003 | <0.001 | EPA502.2 | 0.001 | 5/11/91 |
| 2981 | 1,1,1-trichloroethane | 16820 | 0.2 | <0.001 | EPA502.2 | 0.001 | 5/11/91 |
| 2982 | Carbon tetrachloride | 16820 | 0.003 | <0.001 | EPA502.2 | 0.001 | 5/11/91 |
| 2984 | Trichloroethene | 16820 | 0.003 | <0.001 | EPA502.2 | 0.001 | 5/11/91 |
| 2987 | Tetrachloroethene | 16820 | 0.003 | <0.001 | EPA502.2 | 0.001 | 5/11/91 |
| 2990 | Benzene | 16820 | 0.001 | <0.001 | EPA502.2 | 0.001 | 5/11/91 |

Comments:

SSU
SERVICES

**Spring Hill Office**
9500 Eldridge Rd.
Spring Hill, FL 34608
(904) 683-2518

August 28, 1991

Ms. Cece Featheringill
Department of Environmental Regulation
4520 Oak Fair Boulevard
Tampa, Fla. 33610

Dear Ms. Featheringill:

We are enclosing results of the VOC's for the third quarter of this year for the Spring Hill System.

If any other information is needed, please let me know.

Very truly yours,

John W. Williams
Regional Manager

Enc.

cc: Chris Arcand
Clara Dozier

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
SpringHill Util.
9500 Eldridge Rd.
SpringHill,FL 34606

Date Reported: Aug21 1991
PO Number: PDWID#6271696
PO Number Spring Hill
FDHRS Lab# : 83139
FDEP Lab# : EB3018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 2,6,7,10,11
Date Received: Aug 8 1991 Lab Number : 17475

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 17475 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 104 | 2.67 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 92.9 | 2.54 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 94.1 | 6.19 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 94.1 | 6.19 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 106 | 3.55 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 102 | 4.83 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 99.3 | 4.61 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 107 | 1.53 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 96.1 | 4.21 | <0.001 |
| Benzene | mg/L | 0.001 | 87.4 | .654 | <0.001 |

Data Release Authorization

Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P.O. BOX 450 597
ALTAMONTE SPRINGS
FLORIDA 32715 0597
PHONE (407) 339 5984
FAX (407) 862 4110

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
SpringHill Util.
9500 Eldridge Rd.
SpringHill,FL 34606

Date Reported: Aug21 1991
PO Number: PDWID#6271696
PO Number Spring Hill
FDHRS Lab# : 83139
FDER Lab# : EB3018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 12,13,17,18,19
Date Received: Aug 8 1991 Lab Number : 17476

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 17476 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 104 | 2.67 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 92.0 | 2.54 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 94.1 | 6.19 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 94.1 | 6.19 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 106 | 3.55 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 103 | 4.83 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 99.8 | 4.61 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 107 | 1.53 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 96.1 | 4.21 | <0.001 |
| Benzene | mg/L | 0.001 | 87.4 | .654 | <0.001 |

Data Release Authorization

Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
484 NEWBURYPORT
P.O. BOX 150497
ALTAMONTE SPRINGS
FLORIDA 32715-0497
PHONE (407) 339-5984
FAX (407) 260-0117

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
SpringHill Util.
9500 Eldridge Rd.
SpringHill,FL 34606

Date Reported: Aug21 1991
PO Number: PDWID#6271696
PO Number Spring Hill
FDHRS Lab# : 83139
FDER Lab# : EB3018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 20,21,22,23,24
Date Received: Aug 8 1991 Lab Number : 17477

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 17477 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 104 | 3.67 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 92.0 | 2.54 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 94.1 | 6.19 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 94.1 | 6.19 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 106 | 3.55 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 103 | 4.93 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 99.8 | 4.61 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 107 | 1.53 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 96.1 | 4.21 | <0.001 |
| Benzene | mg/L | 0.001 | 87.4 | .654 | <0.001 |

Data Release Authorization

Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



Jefferson S. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P.O. BOX 150 597
ALTAMONTE SPRINGS
FLORIDA 32715 0597
BUS (407) 339 5796
FAX (407) 862 4497

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:
SpringHill Util.
9500 Eldridge Rd.
SpringHill,FL 34606

Date Reported: Aug21 1991
PO Number: PDWID#6271696
PO Number Spring Hill
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 26
Date Received: Aug 8 1991 Lab Number : 17478

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 17478 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 104 | 2.67 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 92.0 | 2.54 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 94.1 | 6.19 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 94.1 | 6.19 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 106 | 3.55 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 103 | 4.83 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 99.8 | 4.61 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 107 | 1.53 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 96.1 | 4.21 | <0.001 |
| Benzene | mg/L | 0.001 | 87.4 | .654 | <0.001 |

Data Release Authorization

Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P.O. BOX 150 597
ALTAMONTE SPRINGS
FLORIDA 32715 0597
BUS (407) 339 5984
FAX (407) 260 6110

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 6271696
Public Water System Name Spring Hill
Public Water System Type (check one):
(X)Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyzi Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY): 08-07-91
Laboratory Sample Number 17475
Sample Location (be specific): Well 2,6,7,10,11
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
(X)Raw ( )Well ( )Resample
( )Special_____
Sampler Name, Title Phone: Ricky Leach OP II
683-1267

**ANALYSIS INFORMATION**
Extraction Date 8/7/91
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTEI Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature _____

Name Dr Jefferson S Flowers

Title Technical Director

Laboratory Flowers Chemical Laboratories,Inc.

Date 8/20/91

Mail Results to the Appropriate DER or ACPHU Office:

_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 06/01/8 () Satisfactory () Unsatisfactory

Volatile Organic Analysis
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 17475 | .00002 | <.000005 | EPA504.1 | .000005 | 8/20/91 |
| 2969 | Para-dichlorobenzene | 17475 | .075 | <0.001 | EPA502.2 | 0.001 | 8/12/91 |
| 2976 | Vinyl chloride | 17475 | 0.001 | <0.001 | EPA502.2 | 0.001 | 8/12/91 |
| 2977 | 1,1-dichloroethene | 17475 | 0.007 | <0.001 | EPA502.2 | 0.001 | 8/12/91 |
| 2980 | 1,2-dichloroethane | 17475 | 0.003 | <0.001 | EPA502.2 | 0.001 | 8/12/91 |
| 2981 | 1,1,1-trichloroethane | 17475 | 0.2 | <0.001 | EPA502.2 | 0.001 | 8/12/91 |
| 2982 | Carbon tetrachloride | 17475 | 0.003 | <0.001 | EPA502.2 | 0.001 | 8/12/91 |
| 2984 | Trichloroethene | 17475 | 0.003 | <0.001 | EPA502.2 | 0.001 | 8/12/91 |
| 2987 | Tetrachloroethene | 17475 | 0.003 | <0.001 | EPA502.2 | 0.001 | 8/12/91 |
| 2990 | Benzene | 17475 | 0.001 | <0.001 | EPA502.2 | 0.001 | 8/12/91 |

Comments:

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

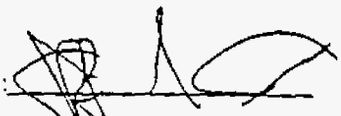
**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 6271696
Public Water System Name Spring Hill
Public Water System Type (check one):
(X)Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyzed: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable___;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY): 08-07-91
Laboratory Sample Number 17476
Sample Location (be specific): Well 12,13,17,18,19
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
(X)Raw ( )Well ( )Resample
( )Special_____
Sampler Name, Title Phone: Ricky Leach OP. TC
683-1263

**ANALYSIS INFORMATION**
Extraction Date 8/7/91
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTED Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable___;

I do HEREBY CERTIFY that all data submitted are correct.

Signature: 

Name Dr. Jefferson S Flowers
Title Technical Director
Laboratory Flowers Chemical Laboratories,Inc.
Date 8/20/91

Mail Results to the Appropriate DER or ACPHU Office:
_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 06/01/8 () Satisfactory () Unsatisfactory

Volatile Organic Analysis
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 17476 | .00002 | <.000005 | EPA504.1 | .000005 | 8/20/91 |
| 2969 | Para-dichlorobenzene | 17476 | .075 | <0.001 | EPA502.2 | 0.001 | 8/12/91 |
| 2976 | Vinyl chloride | 17476 | 0.001 | <0.001 | EPA502.2 | 0.001 | 8/12/91 |
| 2977 | 1,1-dichloroethene | 17476 | 0.007 | <0.001 | EPA502.2 | 0.001 | 8/12/91 |
| 2980 | 1,2-dichloroethane | 17476 | 0.003 | <0.001 | EPA502.2 | 0.001 | 8/12/91 |
| 2981 | 1,1,1-trichloroethane | 17476 | 0.2 | <0.001 | EPA502.2 | 0.001 | 8/12/91 |
| 2982 | Carbon tetrachloride | 17476 | 0.003 | <0.001 | EPA502.2 | 0.001 | 8/12/91 |
| 2984 | Trichloroethene | 17476 | 0.003 | <0.001 | EPA502.2 | 0.001 | 8/12/91 |
| 2987 | Tetrachloroethene | 17476 | 0.003 | <0.001 | EPA502.2 | 0.001 | 8/12/91 |
| 2990 | Benzene | 17476 | 0.001 | <0.001 | EPA502.2 | 0.001 | 8/12/91 |

Comments:

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 6271696
Public Water System Name Spring Hill
Public Water System Type (check one):
(X)Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyzi Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY): 06-07-91
Laboratory Sample Number 17477
Sample Location (be specific): 20, 21, 22, 23, 24 well
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
(X)Raw ( )Well ( )Resample
( )Special_____
Sampler Name, Title Phone: Ricky Lenoir OP IV
683-1267

**ANALYSIS INFORMATION**
Extraction Date 8/7/91
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTED Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature

Name Dr. Jefferson S Flowers

Title Technical Director

Laboratory Flowers Chemical Laboratories,Inc.

Date 8/20/91

Mail Results to the Appropriate DER or ACPHU Office:

DER /ACPHU Reviewing Offical:

PWSA.01 Sample Interpretation (check one):
Effective 06/01/8 () Satisfactory () Unsatisfactory

Volatile Organic Analysis
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 17477 | .00002 | <.000005 | EPA504.1 | .000005 | 8/20/91 |
| 2969 | Para-dichlorobenzene | 17477 | .075 | <0.001 | EPA502.2 | 0.001 | 8/12/91 |
| 2976 | Vinyl chloride | 17477 | 0.001 | <0.001 | EPA502.2 | 0.001 | 8/12/91 |
| 2977 | 1,1-dichloroethene | 17477 | 0.007 | <0.001 | EPA502.2 | 0.001 | 8/12/91 |
| 2980 | 1,2-dichloroethane | 17477 | 0.003 | <0.001 | EPA502.2 | 0.001 | 8/12/91 |
| 2981 | 1,1,1-trichloroethane | 17477 | 0.2 | <0.001 | EPA502.2 | 0.001 | 8/12/91 |
| 2982 | Carbon tetrachloride | 17477 | 0.003 | <0.001 | EPA502.2 | 0.001 | 8/12/91 |
| 2984 | Trichloroethene | 17477 | 0.003 | <0.001 | EPA502.2 | 0.001 | 8/12/91 |
| 2987 | Tetrachloroethene | 17477 | 0.003 | <0.001 | EPA502.2 | 0.001 | 8/12/91 |
| 2990 | Benzene | 17477 | 0.001 | <0.001 | EPA502.2 | 0.001 | 8/12/91 |

Comments:

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

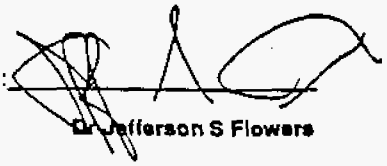
**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 6271696
Public Water System Name Spring Hill
Public Water System Type (check one):
(X)Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyzı Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY): 05-07-91
Laboratory Sample Number 17478
Sample Location (be specific): Well 26
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
(X)Raw ( )Well ( )Resample
( )Special_____
Sampler Name, Title Phone: Ricky Lewis OP TV
682-1267

**ANALYSIS INFORMATION**
Extraction Date 5/12/91
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTEI Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic ✓; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature: 

Name Dr. Jefferson S Flowers

Title Technical Director

Laboratory Flowers Chemical Laboratories,Inc.

Date 8/20/91

Mail Results to the Appropriate DER or ACPHU Office:

DER /ACPHU Reviewing Offical:

PWSA.01 Sample Interpretation (check one):
Effective 06/01/8 () Satisfactory () Unsatisfactory

Volatile Organic Analysis
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 17478 | .00002 | <.000005 | EPA504.1 | .000005 | 8/20/91 |
| 2969 | Para-dichlorobenzene | 17478 | .075 | <0.001 | EPA502.2 | 0.001 | 8/12/91 |
| 2976 | Vinyl chloride | 17478 | 0.001 | <0.001 | EPA502.2 | 0.001 | 8/12/91 |
| 2977 | 1,1-dichloroethene | 17478 | 0.007 | <0.001 | EPA502.2 | 0.001 | 8/12/91 |
| 2980 | 1,2-dichloroethane | 17478 | 0.003 | <0.001 | EPA502.2 | 0.001 | 8/12/91 |
| 2981 | 1,1,1-trichloroethane | 17478 | 0.2 | <0.001 | EPA502.2 | 0.001 | 8/12/91 |
| 2982 | Carbon tetrachloride | 17478 | 0.003 | <0.001 | EPA502.2 | 0.001 | 8/12/91 |
| 2984 | Trichloroethene | 17478 | 0.003 | <0.001 | EPA502.2 | 0.001 | 8/12/91 |
| 2987 | Tetrachloroethene | 17478 | 0.003 | <0.001 | EPA502.2 | 0.001 | 8/12/91 |
| 2990 | Benzene | 17478 | 0.001 | <0.001 | EPA502.2 | 0.001 | 8/12/91 |

Comments:

SSU
SERVICES

**Spring Hill Office**
9500 Eldridge Rd.
Spring Hill, FL 34600
(904) 683-2518

Dec. 27, 1991

Ms. Cece Featheringill
Department of Environmental Regulation
4520 Oak Fair Boulevard
Tampa, Fla. 33610

Dear Ms. Featheringill:

We are enclosing results of the VOC's for the fourth quarter of this year for the Spring Hill System.

If any other information is needed, please let me know.

Very truly yours,

J. W. Williams
Regional Manager

cc: Chris Arcand
Clara Dozier

Enc.

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU
9500 Eldridge Rd.
SpringHill,FL 34608

Date Reported: Dec17 1991
PO Number: B91023
PO Number Spring Hill
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 2,7,10,11
Date Received: Dec11 1991 Lab Number : 18471

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 18471 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 96.9 | .495 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 95.4 | 3.49 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 98.2 | 6.08 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 98.2 | 6.08 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 97.0 | 1.96 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 99.6 | 6.49 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 99.6 | 9.30 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 99.7 | 4.87 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 97.3 | 3.22 | <0.001 |
| Benzene | mg/L | 0.001 | 92.8 | .996 | <0.001 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS: (407) 339-5984
FAX: (407) 260-6110

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
9500 Eldridge Rd.
SpringHill,FL 34608

Date Reported: Dec17 1991
PO Number: B91023
PO Number Spring Hill
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 12,13,17,18
Date Received: Dec11 1991

Lab Number : 18472

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 18472 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 96.9 | .495 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 95.4 | 3.49 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 98.2 | 6.08 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 98.2 | 6.08 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 97.0 | 1.96 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 99.6 | 6.49 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 99.6 | 9.30 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 99.7 | 4.87 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 97.3 | 3.22 | <0.001 |
| Benzene | mg/L | 0.001 | 92.8 | .996 | <0.001 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS: (407) 339-5984
FAX: (407) 260-6110

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU
9500 Eldridge Rd.
SpringHill,FL 34608

Date Reported: Dec17 1991
PO Number: B91023
PO Number Spring Hill
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 19,20,21,22
Date Received: Dec11 1991 Lab Number : 18473

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 18473 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 96.9 | .495 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 95.4 | 3.49 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 98.2 | 6.08 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 98.2 | 6.08 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 97.0 | 1.96 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 99.6 | 6.49 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 99.6 | 9.30 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 99.7 | 4.87 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 97.3 | 3.22 | <0.001 |
| Benzene | mg/L | 0.001 | 92.8 | .996 | <0.001 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
461 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS: (407) 339-5984
FAX: (407) 260-6110

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU
9500 Eldridge Rd.
SpringHill,FL 34608

Date Reported: Dec17 1991
PO Number: B91023
PO Number Spring Hill
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 23,24,26
Date Received: Dec11 1991 Lab Number : 18474

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 18474 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 96.9 | .495 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 95.4 | 3.49 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 98.2 | 6.08 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 98.2 | 6.08 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 97.0 | 1.96 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 99.6 | 6.49 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 99.6 | 9.30 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 99.7 | 4.87 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 97.3 | 3.22 | <0.001 |
| Benzene | mg/L | 0.001 | 92.8 | .996 | <0.001 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P. O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984
FAX. (407) 260-6110

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 6271696
Public Water System Name Spring Hill
Public Water System Type (check one):
(X)Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyz: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY): 12-10-91
Laboratory Sample Number 18474
Sample Location (be specific): _____
Sample Type (check all applicable):
( )Check ( )Regular Distribution (X)Composit AT Lab
( )Clearance ( )Maximum Residence Time ( )Plant Tap
(X)Raw ( )Well ( )Resample
( )Special _____
Sampler Name, Title Phone: Ricky Leach O.P. III
643-2715

**ANALYSIS INFORMATION**
Extraction Date ___/___/____
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTEC Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature: _____

Name Dr Jefferson S Flowers

Title Technical Director

Laboratory Flowers Chemical Laboratories,Inc.

Date 12/16/91

Mail Results to the Appropriate DER or ACPHU Office:
_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 06/01/8 () Satisfactory () Unsatisfactory

Volatile Organic Analysis
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 18474 | .00002 | <.000005 | EPA504.1 | .000005 | 12/16/91 |
| 2969 | Para-dichlorobenzene | 18474 | .075 | <0.001 | EPA502.2 | 0.001 | 12/11/91 |
| 2976 | Vinyl chloride | 18474 | 0.001 | <0.001 | EPA502.2 | 0.001 | 12/11/91 |
| 2977 | 1,1-dichloroethene | 18474 | 0.007 | <0.001 | EPA502.2 | 0.001 | 12/11/91 |
| 2980 | 1,2-dichloroethane | 18474 | 0.003 | <0.001 | EPA502.2 | 0.001 | 12/11/91 |
| 2981 | 1,1,1-trichloroethane | 18474 | 0.2 | <0.001 | EPA502.2 | 0.001 | 12/11/91 |
| 2982 | Carbon tetrachloride | 18474 | 0.003 | <0.001 | EPA502.2 | 0.001 | 12/11/91 |
| 2984 | Trichloroethene | 18474 | 0.003 | <0.001 | EPA502.2 | 0.001 | 12/11/91 |
| 2987 | Tetrachloroethene | 18474 | 0.003 | <0.001 | EPA502.2 | 0.001 | 12/11/91 |
| 2990 | Benzene | 18474 | 0.001 | <0.001 | EPA502.2 | 0.001 | 12/11/91 |

Comments:

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 6271696
Public Water System Name Spring Hill
Public Water System Type (check one):
(X)Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyzed Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___: Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY): 12-10-91
Laboratory Sample Number 18473
Sample Location (be specific): Wells 19, 20, 21, 22
Sample Type (check all applicable):
( )Check ( )Regular Distribution (X)Composit at Lab
( )Clearance ( )Maximum Residence Time ( )Plant Tap
(X)Raw ( )Well ( )Resample
( )Special_____
Sampler Name, Title Phone: Ricky Leach OP II
683-1262

**ANALYSIS INFORMATION**
Extraction Date ___/___/____
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTED Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___: Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature:

Name **Dr. Jefferson S Flowers**

Title **Technical Director**

Laboratory **Flowers Chemical Laboratories,Inc.**

Date 12/16/91

Mail Results to the Appropriate DER or ACPHU Office:

DER /ACPHU Reviewing Offical:

PWSA.01 Sample Interpretation (check one):
Effective 06/01/9 () Satisfactory () Unsatisfactory

Volatile Organic Analysis
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 18473 | .00002 | <.000005 | EPA504.1 | .000005 | 12/16/91 |
| 2969 | Para-dichlorobenzene | 18473 | .075 | <0.001 | EPA502.2 | 0.001 | 12/11/91 |
| 2976 | Vinyl chloride | 18473 | 0.001 | <0.001 | EPA502.2 | 0.001 | 12/11/91 |
| 2977 | 1,1-dichloroethene | 18473 | 0.007 | <0.001 | EPA502.2 | 0.001 | 12/11/91 |
| 2980 | 1,2-dichloroethane | 18473 | 0.003 | <0.001 | EPA502.2 | 0.001 | 12/11/91 |
| 2981 | 1,1,1-trichloroethane | 18473 | 0.2 | <0.001 | EPA502.2 | 0.001 | 12/11/91 |
| 2982 | Carbon tetrachloride | 18473 | 0.003 | <0.001 | EPA502.2 | 0.001 | 12/11/91 |
| 2984 | Trichloroethene | 18473 | 0.003 | <0.001 | EPA502.2 | 0.001 | 12/11/91 |
| 2987 | Tetrachloroethene | 18473 | 0.003 | <0.001 | EPA502.2 | 0.001 | 12/11/91 |
| 2990 | Benzene | 18473 | 0.001 | <0.001 | EPA502.2 | 0.001 | 12/11/91 |

Comments:

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 6271696
Public Water System Name Spring Hill
Public Water System Type (check one):
(X)Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyz: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY): 12-10-91
Laboratory Sample Number 18472
Sample Location (be specific): wells 12, 13, 17, 18
Sample Type (check all applicable):
( )Check ( )Regular Distribution (X)Composit AT LAB
( )Clearance ( )Maximum Residence Time ( )Plant Tap
(X)Raw ( )Well ( )Resample
( )Special_____
Sampler Name, Title Phone: Ricky Leach OP. III
683-2715

**ANALYSIS INFORMATION**
Extraction Date ___/___/____
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTED Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature:_____

Name Dr. Jefferson S Flowers

Title Technical Director

Laboratory Flowers Chemical Laboratories,Inc.

Date 12/16/91

Mail Results to the Appropriate DER or ACPHU Office:
_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 06/01/8 () Satisfactory () Unsatisfactory

Volatile Organic Analysis
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 18472 | .00002 | <.000005 | EPA504.1 | .000005 | 12/16/91 |
| 2969 | Para-dichlorobenzene | 18472 | .075 | <0.001 | EPA502.2 | 0.001 | 12/11/91 |
| 2976 | Vinyl chloride | 18472 | 0.001 | <0.001 | EPA502.2 | 0.001 | 12/11/91 |
| 2977 | 1,1-dichloroethene | 18472 | 0.007 | <0.001 | EPA502.2 | 0.001 | 12/11/91 |
| 2980 | 1,2-dichloroethane | 18472 | 0.003 | <0.001 | EPA502.2 | 0.001 | 12/11/91 |
| 2981 | 1,1,1-trichloroethane | 18472 | 0.2 | <0.001 | EPA502.2 | 0.001 | 12/11/91 |
| 2982 | Carbon tetrachloride | 18472 | 0.003 | <0.001 | EPA502.2 | 0.001 | 12/11/91 |
| 2984 | Trichloroethene | 18472 | 0.003 | <0.001 | EPA502.2 | 0.001 | 12/11/91 |
| 2987 | Tetrachloroethene | 18472 | 0.003 | <0.001 | EPA502.2 | 0.001 | 12/11/91 |
| 2990 | Benzene | 18472 | 0.001 | <0.001 | EPA502.2 | 0.001 | 12/11/91 |

Comments:

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 6271696
Public Water System Name Spring Hill
Public Water System Type (check one):
(X)Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyzi Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY): 12-10-91
Laboratory Sample Number 18471
Sample Location (be specific): wells 2, 7, 10, 11
Sample Type (check all applicable):
( )Check ( )Regular Distribution (X)Composit at Lab
( )Clearance ( )Maximum Residence Time ( )Plant Tap
(X)Raw ( )Well ( )Resample
( )Special_____
Sampler Name, Title Phone: Ricky Leach OP IV
683 2715

**ANALYSIS INFORMATION**
Extraction Date 12/10/91
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTED Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature:_____

Name Dr. Jefferson S Flowers

Title Technical Director

Laboratory Flowers Chemical Laboratories,Inc.

Date 12/16/91

Mail Results to the Appropriate DER or ACPHU Office:

_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 06/01/8 () Satisfactory () Unsatisfactory

Volatile Organic Analysis
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 18471 | .00002 | <.000005 | EPA504.1 | .000005 | 12/16/91 |
| 2969 | Para-dichlorobenzene | 18471 | .075 | <0.001 | EPA502.2 | 0.001 | 12/11/91 |
| 2976 | Vinyl chloride | 18471 | 0.001 | <0.001 | EPA502.2 | 0.001 | 12/11/91 |
| 2977 | 1,1-dichloroethene | 18471 | 0.007 | <0.001 | EPA502.2 | 0.001 | 12/11/91 |
| 2980 | 1,2-dichloroethane | 18471 | 0.003 | <0.001 | EPA502.2 | 0.001 | 12/11/91 |
| 2981 | 1,1,1-trichloroethane | 18471 | 0.2 | <0.001 | EPA502.2 | 0.001 | 12/11/91 |
| 2982 | Carbon tetrachloride | 18471 | 0.003 | <0.001 | EPA502.2 | 0.001 | 12/11/91 |
| 2984 | Trichloroethene | 18471 | 0.003 | <0.001 | EPA502.2 | 0.001 | 12/11/91 |
| 2987 | Tetrachloroethene | 18471 | 0.003 | <0.001 | EPA502.2 | 0.001 | 12/11/91 |
| 2990 | Benzene | 18471 | 0.001 | <0.001 | EPA502.2 | 0.001 | 12/11/91 |

Comments:

# St. John's Highlands - 471

**Putnam County (SSU)**

**Water**

## - 1992 FPSC Filing -

# St. Johns Highland

## Chemical Analyses

The most recent chemical analyses for the water system conducted by a certified laboratory covering the inorganic, organic, turbidity, microbiological, radionuclide, secondary and unregulated contaminants.

| Chemical Analysis | Date Taken |
|---|---|
| Inorganic | 1/89 |
| Organic | 1/89 |
| Volatile Organic Chemicals | 1/91 |
| | 4/91 |
| | 7/91 |
| | 10/91 |
| Turbidity | 1/89 |
| Microbiological | 12/91 |
| Radionuclide | 1/89 |
| Secondary Contaminants | 1/89 |
| Unregulated Contaminants | 1/91 |

SJU SERVICES
Putnam County Office
P. O. Box 458
Pomona Park, FL 32181

TO
FRANK S-
Clara T.

Date: April 9, 1991

To: Jim Maher

Re: First Quarter 1991 VOC & UC analysis results

Enclosed are copies of VOC & UC analysis results. As discussed in our conversation, we grouped our wells for this procedure. The grouping was as follows:

| SAMPLE # | PLANTS INCLUDED IN SAMPLE | ID NUMBERS |
|---|---|---|
| # 1 | Interlachen Lake Estates | 2540545 |
| | Park Manor | 2540873 |
| | Silver Lake Oaks | 2544258 |
| # 2 | River Park # 1 | 2540962 |
| | River Park # 2 | 2540963 |
| | River Park # 3 | 2540964 |
| | Wootens | 2541280 |
| # 3 | Pomona Park | 2540905 |
| | Hermits Cove | 2540482 |
| | Palm Port | 2540865 |
| | River Grove | 2540959 |
| # 4 | Beechers Point | 2540070 |
| | Welaka Mobile Home Park | 2541242 |
| | Saratoga Harbor | 2541008 |
| | St. Johns Highlands | 2540489 |

If you have any questions, please call either Jerry Boyd or Paul Thompson at 904-649-4143.

Copies: Charles Sweat
J.J. Welsh
File

FLOWERS CHEMICAL LABORATORIES INCORPORATED

GROUP 4

Received From:
SSU
110 Church St
PompanoPrk,FL 32181

Date Reported: Feb26 1991
PO Number: Putnam Co.
PO Number B91028
FDHRS Lab# : 83139
FDER Lab# : EB3018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 4
Date Received: Jan30 1991 Lab Number : 16156

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16156 |
|---|---|---|---|---|---|
| Dinoseb | mg/L | 0.00001 | 3.80 | 2.00 | <0.00001 |
| Aldicarb sulfoxide | mg/L | 0.002 | 91.0 | 3.89 | <0.002 |
| Aldicarb sulfone | mg/L | 0.002 | 89.5 | 3.16 | <0.002 |
| Metolachlor | mg/L | 0.0005 | 98.1 | 3.01 | <0.0005 |
| Carbofuran | mg/L | 0.001 | 91.0 | 2.33 | <0.001 |
| Aldicarb | mg/L | 0.002 | 105 | 3.70 | <0.002 |
| Atrazine | mg/L | 0.002 | 106 | 0.78 | <0.002 |
| Alachlor (Lasso) | mg/L | 0.0002 | 110 | 1.00 | <0.0002 |
| Heptachlor | mg/L | 0.000005 | 103 | .550 | <0.000005 |
| Aldrin | mg/L | 0.00007 | 117 | 1.46 | <0.00007 |
| Dieldrin | mg/L | 0.00001 | 94.8 | 2.09 | <0.00001 |
| Dicamba | mg/L | 0.00001 | 2.95 | 2.00 | <0.00001 |
| Chlordane | mg/L | 0.00001 | 117 | 1.46 | <0.00001 |
| Pentachlorophenol | mg/L | 0.005 | 1.42 | .500 | <0.005 |
| Hexachlorocyclopenta | mg/L | 0.001 | 100 | 1.94 | <0.001 |
| Dioxin | mg/L | 0.00001 | 101 | 2.47 | <0.00001 |
| Isophorone | mg/L | 0.001 | 99 | 1.41 | <0.001 |
| 2,4-dinitrotoluene | mg/L | 0.001 | 103 | 3.53 | <0.001 |
| Dimethylphthalate | mg/L | 0.001 | 100 | 0.34 | <0.001 |
| Diethylphthalate | mg/L | 0.001 | 98.6 | 2.02 | <0.001 |
| Di-n-butylphthalate | mg/L | 0.001 | 101 | 0.79 | <0.001 |
| Butyl benzyl phthala | mg/L | 0.001 | 97.7 | 3.38 | <0.001 |
| Bis(2-ethylhexyl)pht | mg/L | 0.001 | 99.2 | 1.11 | <0.001 |
| 1,2,4-trichlorobenze | mg/L | 0.001 | 99.7 | 0.37 | <0.001 |
| PCB_1016 | mg/L | 0.0001 | 102 | 3.04 | <0.0001 |
| PCB_1221 | mg/L | 0.0001 | 98.4 | .862 | <0.0001 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director

Jefferson L. Flowers, PhD
Jefferson S. Flowers, PhD
481 NEWPORT DR
P.O. BOX 150597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 331-1284
FAX (407) 331-1284

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU
110 Church St
PompanoPrk,FL 32181

Date Reported: Feb26 1991
PO Number: Putnam Co.
PO Number B91028
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 4
Date Received: Jan30 1991 Lab Number : 16156

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16156 |
|---|---|---|---|---|---|
| Bromoform | mg/L | 0.001 | 115 | 8.58 | <0.001 |
| Bromodichloromethane | mg/L | 0.001 | 102 | 3.61 | <0.001 |
| Dibromochloromethane | mg/L | 0.001 | 109 | 2.82 | <0.001 |
| p-xylene | mg/L | 0.001 | 97.0 | 2.10 | <0.001 |
| Methylene chloride | mg/L | 0.001 | 109 | .858 | <0.001 |
| o-chlorotoluene | mg/L | 0.001 | 104 | 1.19 | <0.001 |
| p-chlorotoluene | mg/L | 0.001 | 93.4 | 1.89 | <0.001 |
| m-dichlorobenzene | mg/L | 0.001 | 115 | .495 | <0.001 |
| o-dichlorobenzene | mg/L | 0.001 | 111 | .180 | <0.001 |
| 1,1-dichloroethane | mg/L | 0.001 | 100 | 1.31 | <0.001 |
| trans-1,2-dichloroet | mg/L | 0.001 | 107 | 0.72 | <0.001 |
| 1,2-dichloropropane | mg/L | 0.001 | 99.1 | .590 | <0.001 |
| 1,1,2-trichloroethan | mg/L | 0.001 | 114 | .841 | <0.001 |
| 1,1,1,2-tetrachloroe | mg/L | 0.001 | 110 | 1.16 | <0.001 |
| 1,1,2,2-tetrachloroe | mg/L | 0.001 | 120 | 2.20 | <0.001 |
| Chlorobenzene | mg/L | 0.001 | 101 | .116 | <0.001 |
| Toluene | mg/L | 0.001 | 93.4 | 1.89 | <0.001 |
| Ethylbenzene | mg/L | 0.001 | 92.9 | 1.29 | <0.001 |
| Bromobenzene | mg/L | 0.001 | 101 | .116 | <0.001 |
| m-xylene | mg/L | 0.001 | 97.0 | 2.10 | <0.001 |
| Styrene | mg/L | 0.001 | 93.4 | 1.89 | <0.001 |
| o-xylene | mg/L | 0.001 | 97.0 | 2.10 | <0.001 |
| Dalapon | mg/L | 0.000001 | 1.07 | 2.00 | <0.000001 |
| Oxamyl (Vydate) | mg/L | 0.002 | 95.8 | 1.85 | <0.002 |
| Simazine | mg/L | 0.007 | 2.63 | 1.5 | <0.007 |
| Picloram | mg/L | 0.00007 | 1.47 | 1.00 | <0.00007 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
485 NEWPORT AVENUE
P.O. BOX 150 (32617)
ATLANTIC BEACH
FLORIDA 32233-0567
BUS (904) 335-5536
FAX (904) 241-4119

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
110 Church St
PompanoPrk,FL 32181

Date Reported: Feb26 1991
PO Number : Putnam Co.
PO Number 891028
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For : 4
Date Received: Jan30 1991 Lab Number : 16156

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16156 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | .000005 | 107 | .899 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 106 | 0.81 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 104 | 0.70 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 104 | 0.70 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 104 | 2.80 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 108 | 3.07 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 112 | 5.08 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 115 | 3.15 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 113 | 3.0 | <0.001 |
| Benzene | mg/L | 0.001 | 111 | 2.81 | <0.001 |
| Chloromethane | mg/L | 0.001 | 109 | .858 | <0.001 |
| Dichlorodifluorometh | mg/L | 0.001 | 100 | .702 | <0.001 |
| Bromomethane | mg/L | 0.001 | 109 | .858 | <0.001 |
| Chloroethane | mg/L | 0.001 | 104 | .542 | <0.001 |
| Trichlorofluorometha | mg/L | 0.001 | 100 | .702 | <0.001 |
| trans-1,3,-dichlorop | mg/L | 0.001 | 107 | 7.14 | <0.001 |
| cis-1,3-dichloroprop | mg/L | 0.001 | 117 | 1.36 | <0.001 |
| Methyl-tert-butyleth | mg/L | 0.001 | 111 | 6.74 | <0.001 |
| cis-1,2-dichloroethe | mg/L | 0.001 | 117 | 1.36 | <0.001 |
| Dibromomethane | mg/L | 0.001 | 109 | .858 | <0.001 |
| 1,1-dichloropropene | mg/L | 0.001 | 106 | 6.2 | <0.001 |
| 1,3-dichloropropane | mg/L | 0.001 | 107 | 7.14 | <0.001 |
| 1,2,3-trichloropropa | mg/L | 0.001 | 105 | 5.27 | <0.001 |
| 2,2-dichloropropane | mg/L | 0.001 | 104 | .542 | <0.001 |
| 1,2-dibromo-3-chloro | mg/L | 0.001 | 105 | 5.27 | <0.001 |
| Chloroform | mg/L | 0.001 | 99.1 | 1.06 | <0.001 |

Data Release Authorization

Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director

Jefferson S. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBERRY ROAD
P.O. BOX 140 527
ALTAMONTE SPRINGS
FLORIDA 32715 0527
BUS (407) 339 5194
FAX (407) 339 5194

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU
110 Church St
PompanoPrk,FL 32181

Date Reported: Feb26 1991
PO Number: Putnam Co.
PO Number 891028
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 4
Date Received: Jan30 1991 Lab Number : 16156

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16156 |
|---|---|---|---|---|---|
| PCB_1232 | mg/L | 0.0001 | 110 | 7.32 | <0.0001 |
| PCB_1242 | mg/L | 0.0001 | 99.1 | 1.86 | <0.0001 |
| PCB_1248 | mg/L | 0.0001 | 102 | 3.04 | <0.0001 |
| PCB_1254 | mg/L | 0.0001 | 110 | 7.32 | <0.0001 |
| PCB_1260 | mg/L | 0.0001 | 102 | 3.04 | <0.0001 |
| Dioctylphthalate | mg/L | 0.001 | 98.9 | 1.55 | <0.001 |
| 2-chlorophenol | mg/L | 0.001 | 101 | 2.05 | <0.001 |
| 2-methyl-4,6-dinitop | mg/L | 0.001 | 106 | 7.47 | <0.001 |
| Phenol | mg/L | 0.001 | 84.1 | 26.7 | <0.001 |
| 2,4,6-trichloropheno | mg/L | 0.001 | 93.3 | 10.1 | <0.001 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



Jefferson S. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWPORT CTR
P.O. BOX 150597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 332-5284
FAX (407) 862-6110

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: _____
Public Water System Name: St Johns Highlands.
Public Water System Type (check one):
( )Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyzed: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable_X_; Unregulated Organic Pesticide_X_;
Unregulated Base Neutral Extractable_X_;Unregulated Acid Extractable__X_;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number 16156
Sample Location (be specific): _____
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
( )Raw ( )Well ( )Resample
( )Special_____
Sampler Name, Title Phone:_____
_____

**ANALYSIS INFORMATION**
Extraction Date 2/13/91
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTED Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature: _____

Name Dr. Jefferson S Flowers

Title Technical Director

Laboratory Flowers Chemical Laboratories,Inc.

Date 2/22/91

Mail Results to the Appropriate DER or ACPHU Office:
_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 06/01/8 () Satisfactory () Unsatisfactory

## Volatile Organic Analysis
17-550.310(2)(d)
(PWS029)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 16156 | .00002 | <0.000005 | EPA504.1 | .000005 | 2/19/91 |
| 2969 | Para-dichlorobenzene | 16156 | .075 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2976 | Vinyl chloride | 16156 | 0.001 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2977 | 1,1-dichloroethene | 16156 | 0.007 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2980 | 1,2-dichloroethane | 16156 | 0.003 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2981 | 1,1,1-trichloroethane | 16156 | 0.2 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2982 | Carbon tetrachloride | 16156 | 0.003 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2984 | Trichloroethene | 16156 | 0.003 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2987 | Tetrachloroethene | 16156 | 0.003 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2990 | Benzene | 16156 | 0.001 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |

Comments:

## Unregulated Organic Purgeable Analysis
17-550.410(1)
(PWS034)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2210 | Chloromethane | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2212 | Dichlorodifluoromethane | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2214 | Bromomethane | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2216 | Chloroethane | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2218 | Trichlorofluoromethane | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2224 | trans-1,3,-dichloroprop | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2228 | cis-1,3-dichloropropene | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2251 | Methyl-tert-butylether | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2380 | cis-1,2-dichloroethene | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2408 | Dibromomethane | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2410 | 1,1-dichloropropene | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2412 | 1,3-dichloropropane | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2414 | 1,2,3-trichloropropane | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2416 | 2,2-dichloropropane | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2931 | 1,2-dibromo-3-chloropr | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2941 | Chloroform | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2942 | Bromoform | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2943 | Bromodichloromethane | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2944 | Dibromochloromethane | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2962 | p-xylene | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2964 | Methylene chloride | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2965 | o-chlorotoluene | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2966 | p-chlorotoluene | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2967 | m-dichlorobenzene | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2968 | o-dichlorobenzene | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2978 | 1,1-dichloroethane | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2979 | trans-1,2-dichloroethyl | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2983 | 1,2-dichloropropane | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2985 | 1,1,2-trichloroethane | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2986 | 1,1,1,2-tetrachloroetha | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2988 | 1,1,2,2-tetrachloroetha | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2989 | Chlorobenzene | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2991 | Toluene | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2992 | Ethylbenzene | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2993 | Bromobenzene | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2995 | m-xylene | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2996 | Styrene | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2997 | o-xylene | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |

Comments:

Unregulated Organic Pesticide Analysis
17-550.410(2)
(PWS035)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2031 | Dalapon | 16156 | | <0.000001 | EPA515 | .000001 | 2/21/91 |
| 2036 | Oxamyl (Vydate) | 16156 | | <0.002 | EPA531 | 0.002 | 2/18/91 |
| 2037 | Simazine | 16156 | | <0.007 | EPA505 | 0.007 | 2/21/91 |
| 2040 | Picloram | 16156 | | <0.00007 | EPA515 | 0.00007 | 2/21/91 |
| 2041 | Dinoseb | 16156 | | <0.00001 | EPA515 | 0.00001 | 2/21/91 |
| 2043 | Aldicarb sulfoxide | 16156 | | <0.002 | EPA531 | 0.002 | 2/18/91 |
| 2044 | Aldicarb sulfone | 16156 | | <0.002 | EPA531 | 0.002 | 2/18/91 |
| 2045 | Metolachlor | 16156 | | <0.0005 | EPA505 | 0.0005 | 2/21/91 |
| 2046 | Carbofuran | 16156 | | <0.001 | EPA531 | 0.001 | 2/18/91 |
| 2047 | Aldicarb | 16156 | | <0.002 | EPA531 | 0.002 | 2/18/91 |
| 2050 | Atrazine | 16156 | | <0.002 | EPA505 | 0.002 | 2/21/91 |
| 2051 | Alachlor (Lasso) | 16156 | | <0.0002 | EPA505 | 0.0002 | 2/21/91 |
| 2065 | Heptachlor | 16156 | | <.000005 | EPA508 | .000005 | 2/21/91 |
| 2356 | Aldrin | 16156 | | <0.00007 | EPA508 | 0.00007 | 2/21/91 |
| 2364 | Dieldrin | 16156 | | <0.00001 | EPA508 | 0.00001 | 2/21/91 |
| 2440 | Dicamba | 16156 | | <0.00001 | EPA515 | 0.00001 | 2/21/91 |
| 2959 | Chlordane | 16156 | | <0.00001 | EPA508 | 0.00001 | 2/21/91 |
| 9114 | Pentachlorophenol | 16156 | | <0.005 | EPA515 | 0.005 | 2/14/91 |

Comments:

Unregulated Base Neutral Extractable Analysis
17-550.410(3)
(PWS038)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2042 | Hexachlorocyclopentadie | 16156 | | <0.001 | EPA508 | 0.001 | 2/21/91 |
| 2063 | Dioxin | 16156 | | <0.00001 | EPA613 | 0.00001 | 2/21/91 |
| 2262 | Isophorone | 16156 | | <0.001 | EPA609 | 0.001 | 2/14/91 |
| 2270 | 2,4-dinitrotoluene | 16156 | | <0.001 | EPA609 | 0.001 | 2/14/91 |
| 2282 | Dimethylphthalate | 16156 | | <0.001 | EPA606 | 0.001 | 2/14/91 |
| 2284 | Diethylphthalate | 16156 | | <0.001 | EPA606 | 0.001 | 2/14/91 |
| 2290 | Di-n-butylphthalate | 16156 | | <0.001 | EPA606 | 0.001 | 2/14/91 |
| 2294 | Butyl benzyl phthalate | 16156 | | <0.001 | EPA606 | 0.001 | 2/14/91 |
| 2298 | Bis(2-ethylhexyl)phthal | 16156 | | <0.001 | EPA606 | 0.001 | 2/14/91 |
| 2378 | 1,2,4-trichlorobenzene | 16156 | | <0.001 | EPA612 | 0.001 | 2/14/91 |
| 2388 | PCB-1016 | 16156 | | <0.0001 | EPA505 | 0.0001 | 2/21/91 |
| 2390 | PCB-1221 | 16156 | | <0.0001 | EPA505 | 0.0001 | 2/21/91 |
| 2392 | PCB-1232 | 16156 | | <0.0001 | EPA505 | 0.0001 | 2/21/91 |
| 2394 | PCB-1242 | 16156 | | <0.0001 | EPA505 | 0.0001 | 2/21/91 |
| 2396 | PCB-1248 | 16156 | | <0.0001 | EPA505 | 0.0001 | 2/21/91 |
| 2398 | PCB-1254 | 16156 | | <0.0001 | EPA505 | 0.0001 | 2/21/91 |

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2400 | PCB-1260 | 16156 | | <0.0001 | EPA505 | 0.0001 | 2/21/91 |
| 9089 | Dioctylphthalate | 16156 | | <0.001 | EPA606 | 0.001 | 2/14/91 |

Comments:

Unregulated Acid Extractable Analysis
17-550.410(4)
(PWS037)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 9108 | 2-chlorophenol | 16156 | | <0.001 | EPA604 | 0.001 | 2/14/91 |
| 9112 | 2-methyl-4,6-dinitophe | 16156 | | <0.001 | EPA604 | 0.001 | 2/14/91 |
| 9115 | Phenol | 16156 | | <0.001 | EPA604 | 0.001 | 2/14/91 |
| 9116 | 2,4,6-trichlorophenol | 16156 | | <0.001 | EPA604 | 0.001 | 2/14/91 |

Comments:

To: Jim Meyer, FGU

RE: 2nd Quarter 1991 VOC, analysis results.

Dear Mr. Meyer,

Enclosed are copies of our 2nd Quarter 1991 VOC analysis results. As discussed in our earlier conversation with you, we grouped our wells for this procedure. The grouping was as follows:

| SAMPLE # | PLANTS INCLUDED IN SAMPLE | | ID. # |
|---|---|---|---|
| #1 | Interlachen Lakes Estates | #470 | 2540545 |
| | Park Manor | #444 | 2540873 |
| | Silver Lake Oaks | #473 | 2544258 |
| #2 | River Park #1 | #439[1] | 2540962 |
| | River Park #2 | #439[2] | 2540963 |
| | River Park #3 | #439[3] | 2540964 |
| | Woolems | #446 | 2541280 |
| #3 | Ponona Park | #443 | 2540905 |
| | Hermits Cove | #438 | 2540482 |
| | Palm Port | #440 | 2540865 |
| | River Grove | #442 | 2540959 |
| #4 | Beechers Point | #472 | 2540070 |
| | Welaka Mobile Home Park | #447 | 2541242 |
| | Saratoga Harbor | #448 | 2541008 |
| | St. Johns Highlands | #471 | 2540489 |

If you have any questions, please call either Jerry Boyd or myself at (904)649-4141.

Thank you,

Paul D. Thompson
Lead Operator, Putnam County
SWU Operations

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
PO Box 458
PomonaPrk,FL 32181

Date Reported: Apr29 1991
PO Number: B91028
PO Number SSU Serv.
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 4
Date Received: Apr17 1991

Lab Number : 16692

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16692 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 98.6 | 7.34 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 105 | 5.74 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 100 | 3.53 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 100 | 3.53 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 107 | 5.79 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 102 | 3.96 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 103 | 1.43 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 102 | 8.39 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 95.4 | 3.99 | <0.001 |
| Benzene | mg/L | 0.001 | 103 | 2.23 | <0.001 |

Data Release Authorization

Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5044
FAX (407) 260-0110

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number:_____
Public Water System Name _____ St School Highland
Public Water System Type (check one):
( )Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyzed Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number 18692
Sample Location (be specific): _____
Sample Type (check all applicable):
( )Check ( )Regular Distribution (✓)Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
(✓)Raw ( )Well ( )Resample
( )Special_____
Sampler Name, Title Phone:_____
_____

**ANALYSIS INFORMATION**
Extraction Date ___/___/____
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTED Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature:_____

Name Dr. Jefferson S Flowers

Title Technical Director

Laboratory Flowers Chemical Laboratories,Inc.

Date 4/27/91

Mail Results to the Appropriate DER or ACPHU Office:
_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 06/01/8 () Satisfactory () Unsatisfactory

Volatile Organic Analysis
17-550.310(2)(d)
(PWS029)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 16692 | .00002 | <.000005 | EPA504.1 | .000005 | 4/26/91 |
| 2969 | Para-dichlorobenzene | 16692 | .075 | <0.001 | EPA502.2 | 0.001 | 4/25/91 |
| 2976 | Vinyl chloride | 16692 | 0.001 | <0.001 | EPA502.2 | 0.001 | 4/25/91 |
| 2977 | 1,1-dichloroethene | 16692 | 0.007 | <0.001 | EPA502.2 | 0.001 | 4/25/91 |
| 2980 | 1,2-dichloroethane | 16692 | 0.003 | <0.001 | EPA502.2 | 0.001 | 4/25/91 |
| 2981 | 1,1,1-trichloroethane | 16692 | 0.2 | <0.001 | EPA502.2 | 0.001 | 4/25/91 |
| 2982 | Carbon tetrachloride | 16692 | 0.003 | <0.001 | EPA502.2 | 0.001 | 4/25/91 |
| 2984 | Trichloroethene | 16692 | 0.003 | <0.001 | EPA502.2 | 0.001 | 4/25/91 |
| 2987 | Tetrachloroethene | 16692 | 0.003 | <0.001 | EPA502.2 | 0.001 | 4/25/91 |
| 2990 | Benzene | 16692 | 0.001 | <0.001 | EPA502.2 | 0.001 | 4/25/91 |

Comments:

# ORLANDO LABORATORIES INC.

P.O. Box 149127 • Orlando, Florida 32814

REPORT OF ANALYSIS

Southern States Utilities
P.O. Box 458
Pamona Park, FL 32181

Attn: Paul Thompson

Work Order # : 91-07-477
Date Received: 07/31/91
Date Reported: 08/07/91
OLI Contact: L_BALTZLEY

Work ID: Southern States Utilities
Samples collected by: Client
Total Samples: 2

| SAMPLE IDENTIFICATION | TEST CODES and NAMES used on this report |
|---|---|
| 01 Composite #1 | 1COMP Composite Data For Samples |
| 02 Method Blank | PWS028 Volatile Organic Analysis |

Copy of report to:

Jerry Boyd
P.O. Box 458
Pamona Park, FL 32181

OLI Florida Department of Health & Rehabilitative Service Identification Numbers are: Drinking Water Certification Number 83141, Environmental Certification Number E83033

Respectfully Submitted,
ORLANDO LABORATORIES, INC.

John Hobbs
LABORATORY DIRECTOR

Eric Malarek
QUALITY CONTROL

*Dedicated To Excellence*

(407) 896-6645 (800) 826-8320 FAX (407) 898-6588

ORLANDO LABORATORIES, INC.
Received: 07/31/91

REPORT OF ANALYSIS
Results by Sample

Work Order # [illegible]

SAMPLE ID Composite #1
DATE COLLECTED not specified
TEST NAME Composite Data For Samples

SAMPLE # 014
MATRIX WATER
TEST CODE [illegible]

NUMBER OF SAMPLES COMPOSITED:

| | Sample Identification | Date and time |
|---|---|---|
| #1 | Beechers Point | 07/30/91 10:30 |
| #2 | Welaka MHP | 07/30/91 10:30 |
| #3 | Sarratoga Harbor | 07/30/91 10:30 |
| #4 | St. Johns | 07/30/91 10:30 |
| #5 | | |
| #6 | | |
| #7 | | |
| #8 | | |
| #9 | | |
| #10 | | |
| #11 | | |
| #12 | | |

APPLANDD LABORATORIES,INC.
Received: 07/31/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91 07 137

SAMPLE ID Composite #1
DATE COLLECTED not specified
TEST NAME Volatile Organic Analysis

SAMPLE# 01A
MATRIX WATER
TEST CODE EW-0573

VOLATILE ORGANIC ANALYSIS
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | | | <0.00002 | EPA 504 | 0.00002 | 08/01/91 |
| 2969 | Para-dichlorobenzene | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2976 | Vinyl Chloride | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2977 | 1,1-Dichloroethene | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2980 | 1,2-Dichloroethane | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2981 | 1,1,1-trichloroethane | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2982 | Carbon Tetrachloride | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2984 | Trichloroethene | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2987 | Tetrachloroethene | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2990 | Benzene | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |

Comments:

ORLANDO LABORATORIES,INC.
Received: 07/31/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91 07 [illegible]

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME Volatile Organic Analysis

SAMPLE# 020
MATRIX METHOD BLANK
TEST CODE PWS028

VOLATILE ORGANIC ANALYSIS
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | | | <0.00002 | EPA 504 | 0.00002 | 08/01/91 |
| 2969 | Para-dichlorobenzene | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2976 | Vinyl Chloride | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2977 | 1,1-Dichloroethene | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2980 | 1,2-Dichloroethane | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2981 | 1,1,1-trichloroethane | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2982 | Carbon Tetrachloride | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2984 | Trichloroethene | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2987 | Tetrachloroethene | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2990 | Benzene | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |

Comments:

ORLANDO LABORATORIES INC.



GC/MS VOLATILE ORGANICS

MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 08-01-1991

LAB SAMPLE # : 9107484-2 524
ANALYSIS DATE : 7/31/91

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| 1,1-dichloroethene | 50 | 0 | 35 | 70 | 39 | 78 | 11 |
| trichloroethene | 50 | 0 | 53 | 106 | 51 | 102 | 4 |
| benzene | 50 | 0 | 50 | 100 | 48 | 96 | 4 |
| toluene | 50 | 0 | 49 | 98 | 49 | 98 | 0 |
| chlorobenzene | 50 | 0 | 47 | 94 | 47 | 94 | 0 |

COMMENTS :

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| 1,1-dichloroethene | 64 | 137 | 19 | 50 | 142 | 22 |
| trichloroethene | 76 | 124 | 24 | 70 | 128 | 25 |
| benzene | 77 | 113 | 25 | 64 | 134 | 26 |
| toluene | 65 | 125 | 20 | 69 | 132 | 24 |
| chlorobenzene | 71 | 123 | 24 | 72 | 124 | 20 |

ORLANDO LABORATORIES, INC. Page No: 6

GC ORGANICS

# MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 08-05-1991

LAB SAMPLE # : 9107-147-01A
ANALYSIS DATE : 08/01/91

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| Ethylene Dibromide | 100 | 0 | 56 | 56 | 67 | 67 * | 16 |
| Dibromochloropropane | 100 | 0 | 67 | 67 | 59 | 59 * | 13 |

COMMENTS : * = parameter outside QC limits.

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| Ethylene Dibromide | 50 | 100 | 30 | 35 | 100 | 30 |
| Dibromochloropropane | 65 | 110 | 30 | 60 | 110 | 30 |

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number: _____
Public Water System Name: St Johns Highlands
Public Water System Type (check one):
( ) Community ( ) Non-Community ( ) Special Non-Community

LABORATORY CERTIFICATION INFORMATION
Lab Certification Number: 83141
Parameter Group(s) Analyzed: Volatile Organic Analysis

Subcontract Lab Certification Number (if any): N/A

SAMPLE INFORMATION
Sample Date (MMDDYY): 07/30/91
Laboratory Sample Number: 91-07-477
Sample Location: _____
Sample Type (check all applicable):
( ) Check ( ) Regular Distribution ( ) Composite
( ) Clearance ( ) Maximum Residue Time ( ) Plant Tap
( ) Raw ( ) Well ( ) Re-sample
( ) Special _____
Sampler Name, Title, Phone: _____

ANALYSIS INFORMATION
Extraction Date (MMDDYY): 08/01/91 (504)
Laboratory Contact: Eric Halarek
Re-sample Requested? (check one): ( ) Yes ( ) No
ANALYSES SUBMITTED: Turbidity____; Inorganic____; Trihalomethane____; Volatile Organic____; Organic Chemical____; Secondary Chemical____; Radiological____; Unregulated Organic Purgeable____; Unregulated Organic Pesticides____; Unregulated Base Neutral Extractable____; Unregulated Acid Extractable____; (Check all analyses which apply.)

I do HEREBY CERTIFY that all data submitted is correct.

Mail Results to the Appropriate DER or ACPHU Office:

Signature _____

Name Eric Halarek

Title Quality Control Officer

Laboratory Orlando Laboratories, Inc.

Date _____

DER/ACPHU Reviewing Official

_____

Sample Interpretation (check one)
( )Satisfactory ( ) Unsatisfactory

**ORLANDO LABORATORIES, INC.**
P.O. Box 14912 · Orlando, FL 32814
(407) 896-6041 · FAX (407) 896-7586

# CHAIN-OF-CUSTODY RECORD
(INSTRUCTIONS ON BACK)



| 1 INVOICE TO (COMPANY NAME) / ADDRESS (CITY, STATE, ZIP) | 2 CONTACT PERSON/PHONE # INVOICE | 3 OLI WORK ORDER # (LAB USE) |
|---|---|---|
| SSU Services — 1000 Color Place Apopka | | 9107477 |
| **4 ORIGINAL REPORT TO (COMPANY NAME) / ADDRESS (CITY, STATE, ZIP)** | **5 CONTACT PERSON/PHONE # REPORT** | **6 RB NUMBER (LAB USE)** |
| SSU Services — PO Box 458 Pamona Park Fl. 32181 | Paul Thompson 904-649- | 4143 |
| 7 (OPTIONAL) ADDITIONAL REPORTS SENT TO / ADDRESS (CITY, STATE, ZIP) | | 17 NUMBER OF CONTAINERS |
| 8 CLIENT PROJECT NAME | 9 CLIENT PROJECT # | |

| 10 SAMPLE IDENTIFICATION | 11 DATE/TIME | 12 COMP | GRAB | WATER | SOIL | OTHER | 13 SAMPLE DESCRIPTION | NUMBER OF CONTAINERS | 18 REQUESTED ANALYSIS: VOCs | 19 REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| Brecklys Pl (25400720) | 7/30/91 10:30 | | | X | | | Well | 8 | X | |
| Wekiva MHP (25412413) | 7/30/91 10:30 | | | X | | | Well | 4 | X | |
| Saratoga Harbor (25410403) | 7/30/91 10:30 | | | X | | | Well | 4 | X | |
| St. Johns (25264189) | 7/30/91 10:30 | | | X | | | Well | 4 | X | |

| TRANSFER NUMBER | 14 RELINQUISHED BY | 15 DATE/TIME | 16 ACCEPTED BY |
|---|---|---|---|
| 1st | Roy White | 7/30/91 8:00 | Ron Bangor |
| 2nd | Ron Bangor | 7/31 11:00 | Deedee Homan |
| 3rd | | | |

20 ADDITIONAL REMARKS

21 COOLER #'s

22 SAMPLER'S SIGNATURE Roy White

ORIGINAL - LAB
YELLOW - FILE
PINK - CLIENT

0578

# ORLANDO LABORATORIES INC.

P.O. Box 149127 • Orlando, Florida 32814

REPORT OF ANALYSIS

Southern States Utilities
P.O. Box 458
Pamona Park, FL 32181

Attn: Paul Thompson

Work Order # : 91-10-434
Date Received: 10/30/91
Date Reported: 11/13/91
OLI Contact: J_BEATO

Work ID: SSU Services
Samples collected by: Client
Total Samples: 2

| SAMPLE IDENTIFICATION | TEST CODES and NAMES used on this report |
|---|---|
| 01 Composite #1 | 1COMP Composite Data For Samples |
| 02 Method Blank | PWS028 Volatile Organic Analysis |

Copy of invoice to:

Jerry Boyd
Southern States Utilities
P.O. Box 458
Pamona Park, FL 32181

OLI Florida Department of Health & Rehabilitative Service Identification Numbers are:
Drinking Water Certification Number 83141, Environmental Certification Number E83033

Respectfully Submitted,
ORLANDO LABORATORIES, INC.

John Hobbs
LABORATORY DIRECTOR

Eric Malarek
QUALITY CONTROL

*Dedicated To Excellence*

(407) 896-6645 (800) 826-8320 FAX (407) 898-6588

ORLANDO LABORATORIES,INC.
Received: 10/30/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-10-174

SAMPLE ID Composite #1
DATE COLLECTED not specified
TEST NAME Composite Data For Samples

SAMPLE# 01A
MATRIX WATER
TEST CODE 1C[illegible]

NUMBER OF SAMPLES COMPOSITED:

| | Sample Identification | Date and time |
|---|---|---|
| #1 | BEECHERS POINT #1 & #2 | 10/30/91 11:30 |
| #2 | WELAKA MOBILE HOME PARK #3 | 10/30/91 11:40 |
| #3 | SARATOGA HARBOR #4 | 10/30/91 11:45 |
| #4 | ST. JOHNS HIGHLANDS #5 | 10/30/91 10:50 |
| #5 | | |
| #6 | | |
| #7 | | |
| #8 | | |
| #9 | | |
| #10 | | |
| #11 | | |
| #12 | | |

ORLANDO LABORATORIES, INC.
Received: 10/30/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-10-[illegible]

SAMPLE ID Composite #1
DATE COLLECTED not specified
TEST NAME Volatile Organic Analysis

SAMPLE# 010
MATRIX WATER
TEST CODE FW502B

VOLATILE ORGANIC ANALYSIS
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | | | <0.00002 | EPA 504 | 0.00002 | 11/05/91 |
| 2969 | Para-dichlorobenzene | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2976 | Vinyl Chloride | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2977 | 1,1-Dichloroethene | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2980 | 1,2-Dichloroethane | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2981 | 1,1,1-trichloroethane | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2982 | Carbon Tetrachloride | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2984 | Trichloroethene | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2987 | Tetrachloroethene | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2990 | Benzene | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |

Comments:

ORLANDO LABORATORIES,INC.
Received: 10/30/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91 10 4 3

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME Volatile Organic Analysis

SAMPLE# 020
MATRIX METHOD BLANK
TEST CODE PW5028

VOLATILE ORGANIC ANALYSIS
17-550.310(2)(d)
(PW5028)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | | | <0.00002 | EPA 504 | 0.00002 | 11/05/91 |
| 2959 | Para-dichlorobenzene | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2976 | Vinyl Chloride | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2977 | 1,1-Dichloroethene | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2980 | 1,2-Dichloroethane | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2981 | 1,1,1-trichloroethane | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2982 | Carbon Tetrachloride | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2984 | Trichloroethene | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2987 | Tetrachloroethene | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2990 | Benzene | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |

Comments:

ORLANDO LABORATORIES, INC.

GC ORGANICS

# MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 11-11-1991

LAB SAMPLE # : 9110433-01A
ANALYSIS DATE : 11/05/91

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| Ethylene Dibromide | 100 | 0 | 72 | 72 | 69 | 69 | 4 |
| Dibromochloropropane | 100 | 0 | 77 | 77 | 78 | 78 | 1 |

COMMENTS :

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| Ethylene Dibromide | 50 | 110 | 30 | 35 | 100 | 30 |
| Dibromochloropropane | 65 | 110 | 30 | 60 | 110 | 30 |

ORLANDO LABORATORIES INC.

GC/MS VOLATILE ORGANICS

MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 11-05-1991

LAB SAMPLE # : 9110445-3
ANALYSIS DATE : 11/1/91

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| 1,1-dichloroethene | 50 | 0 | 58 | 116 | 53 | 106 | 9 |
| trichloroethene | 50 | 0 | 53 | 106 | 52 | 104 | 2 |
| benzene | 50 | 0 | 59 | 118 * | 55 | 110 | 7 |
| toluene | 50 | 0 | 50 | 100 | 48 | 96 | 4 |
| chlorobenzene | 50 | 0 | 51 | 102 | 50 | 100 | 2 |

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| 1,1-dichloroethene | 64 | 137 | 19 | 50 | 142 | 22 |
| trichloroethene | 76 | 124 | 24 | 70 | 128 | 25 |
| benzene | 77 | 113 | 25 | 64 | 134 | 26 |
| toluene | 65 | 125 | 20 | 69 | 132 | 24 |
| chlorobenzene | 71 | 123 | 24 | 72 | 124 | 20 |

*Note: Parameter outside QC limits due to matrix interference.

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 2540489
Public Water System Name: St. Johns Highlands
Public Water System Type (check one):
(X) Community ( ) Non-Community ( ) Special Non-Community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: 83141
Parameter Group(s) Analyzed: Volatile Organic Analysis

Subcontract Lab Certification Number (if any): N/A

**SAMPLE INFORMATION**
Sample Date (MMDDYY): 10/30/91
Laboratory Sample Number: 91-10-434
Sample Location: Well
Sample Type (check all applicable):
( ) Check ( ) Regular Distribution ( ) Composite
( ) Clearance ( ) Maximum Residue Time ( ) Plant Tap
( ) Raw (X) Well ( ) Re-sample
( ) Special
Sampler Name, Title, Phone: Paul D. Thompson
Lead Operator, Putnam County SSU Services
904-649-4143

**ANALYSIS INFORMATION**
Extraction Date (MMDDYY): 10/31/91 (504)
Laboratory Contact: Eric Malarek
Re-sample Requested? (check one): ( ) Yes ( ) No
ANALYSES SUBMITTED: Turbidity____; Inorganic____; Trihalomethane____;
Volatile Organic____; Organic Chemical____; Secondary Chemical____;
Radiological____; Unregulated Organic Purgeable____; Unregulated
Organic Pesticides____; Unregulated Base Neutral Extractable____;
Unregulated Acid Extractable____; (Check all analyses which apply.)

I do HEREBY CERTIFY that all data submitted is correct.

Signature Eric Malarek

Name Eric Malarek

Title Quality Control Officer

Laboratory Orlando Laboratories, Inc.

Date 11/13/91

Mail Results to the Appropriate DER or ACPHU Office:

DER/ACPHU Reviewing Official

Sample Interpretation (check one)
( )Satisfactory ( ) Unsatisfactory

ORLANDO LABORATORIES, INC

# CHAIN-OF-CUSTODY RECORD

Page ... of ...

SSU SERVICES P.O. BOX 458 POMONA PARK FL. 32181

ORIGINAL REPORT TO (COMPANY AND INDIVIDUAL) ADDRESS (CITY STATE ZIP)

SAME

(OPTIONAL) ADDITIONAL REPORTS SENT TO ADDRESS (CITY STATE ZIP)

CLIENT PROJECT NAME

CLIENT PROJECT PO #

L114423

PAUL D. THOMPSON

ACCT NUMBER LAB USE

911434

| SAMPLE IDENTIFICATION | DATE | TIME | COMP | GRAB | WATER | SOIL | OTHER | SAMPLE DESCRIPTION | NUMBER OF CONTAINERS | REQUESTED ANALYSIS VOC | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| BEECHES PONT | 10/17/91 | 11:30 | | | ✓ | | | WELL | 8 | ✓ | |
| LEISURE MOBILE HOME PARK | 10/17/91 | 11:40 | | | ✓ | | | WELL | 4 | ✓ | |
| SARATOGA HARBOR | 10/17/91 | 11:45 | | | ✓ | | | WELL | 4 | ✓ | |
| ST. JOHNS HIGHLANDS | 10/17/91 | 10:50 | | | ✓ | | | WELL | 4 | ✓ | |

| TRANSFER NUMBER | RELINQUISHED BY | DATE/TIME | ACCEPTED BY |
|---|---|---|---|
| 1st | Ron Bargainer | 10/30 16:30 | Deedee Heman |
| 2nd | | | |
| 3rd | | | |

ADDITIONAL REMARKS

COOLER #s

SAMPLER'S SIGNATURE

ORIGINAL - LAB
YELLOW - FILE
PINK - CLIENT

0586

ORLANDO LABORATORIES INC

P.O. Box 149127 • Orlando, Florida 32814 • (407) 896-6645

Plant # 471

REPORT OF ANALYSIS

Southern States Utilities
Attn: Aaron Perlowich
1000 Color Place
Apopka, Florida 32703

Report #: 1998 (89-01-132)
Sample submitted by: Client(J. Boyd) *
Date sampled: 01-12-89 @ 1700 hours *
Date received: 01-13-89
Date reported: 01-31-89
Page 1 of 9

PURPOSE: To analyze the sample for listed parameters
AUTHORIZATION: Chain of Custody Form received from client 01-13-89
SAMPLE IDENTIFICATION: Water sample submitted and identified by client as: St. John Highlands - Distribution, Well & Entry Point to Distribution.
PROCEDURE: EPA METHOD 624

RESULTS, ug/l

| PURGEABLE ORGANICS BY GC/MS | DISTRIBUTION | METHOD BLANK |
|---|---|---|
| Benzene | ** | ** |
| Bromodichloromethane | ** | ** |
| Bromoform | ** | ** |
| Bromomethane | ** | ** |
| Carbon Tetrachloride | ** | ** |
| Chlorobenzene | ** | ** |
| Chloroethane | ** | ** |
| 2-Chloroethylvinyl ether | ** | ** |
| Chloroform | ** | ** |
| Chloromethane | ** | ** |
| Dibromochloromethane | ** | ** |
| 1,1-Dichloroethane | ** | ** |
| 1,2-Dichloroethane | ** | ** |
| 1,1-Dichloroethene | ** | ** |
| 1,2-Dichloroethene (Total) | ** | ** |
| 1,2-Dichloropropane | ** | ** |
| cis-1,3-Dichloropropene | ** | ** |
| trans-1,3-Dichloropropene | ** | ** |
| Ethylbenzene | ** | ** |
| Methylene Chloride | ** | ** |

† = Analysis not requested per client
** Samples exceeded holding times and will be reported as a separate report
* Sampling information based on data received by client
ND = Not detected to the levels in parentheses.
< = Less Than

Respectfully submitted,
ORLANDO LABORATORIES, INC.

Check with Jack on this:

Laboratory Manager

Quality Control

OLI Florida Department of Health & Rehabilitative Service Identification Number is 83141.

*The Analytical Specialists*

PROCEDURE: EPA METHOD 624

RESULTS, ug/l

| PURGEABLE ORGANICS BY GC/MS - Cont. | DISTRIBUTION | METHOD BLANK |
|---|---|---|
| 1,1,2,2-Tetrachloroethane | ** | ** |
| Tetrachloroethene | ** | ** |
| Toluene | ** | ** |
| 1,1,1-Trichloroethane | ** | ** |
| 1,1,2-Trichloroethane | ** | ** |
| Trichloroethene | ** | ** |
| Trichlorofluoromethane | ** | ** |
| Vinyl Chloride | ** | ** |
| Dichlorodifluoromethane | ** | ** |
| 1,2-Dichlorobenzene | ** | ** |
| 1,3-Dichlorobenzene | ** | ** |
| 1,4-Dichlorobenzene | ** | ** |
| Acrolein | ** | ** |
| Acrylonitrile | ** | ** |
| n-Hexane | ** | ** |
| 2,2-Dichloropropane | ** | ** |
| 1,1,1,2-Tetrachloroethane | ** | ** |
| 1,2,3-Trichloropropane | ** | ** |
| Styrene | ** | ** |
| meta - Xylene | ** | ** |
| ortho, para - Xylenes | ** | ** |
| Dibromomethane | ** | ** |
| 1,1-Dichloropropene | ** | ** |
| 1,3-Dichloropropane | ** | ** |
| Bromobenzene | ** | ** |
| 1,2-Dibromo-3-chloropropane | ** | ** |

RESULTS, ug/l

PROCEDURE: EPA METHOD 625

| ACID EXTRACTABLE ORGANICS BY GC/MS | DISTRIBUTION | METHOD BLANK |
|---|---|---|
| 4-Chloro-3-methyl phenol | ND(10) | ND(10) |
| 2-Chlorophenol | ND(10) | ND(10) |
| 2,4-Dichlorophenol | ND(10) | ND(10) |
| 2,4-Dimethylphenol | ND(10) | ND(10) |
| 2,4-Dinitrophenol | ND(50) | ND(50) |
| 2-Methyl-4,6-dinitrophenol | ND(50) | ND(50) |
| 2-Nitrophenol | ND(10) | ND(10) |
| 4-Nitrophenol | ND(50) | ND(50) |
| Pentachlorophenol | ND(50) | ND(50) |
| Phenol | ND(10) | ND(10) |
| 2,4,6-Trichlorophenol | ND(10) | ND(10) |

RESULTS, ug/l

PROCEDURE: EPA METHOD 625

| BASE/NEUTRAL EXTRACTABLES BY GC/MS | DISTRIBUTION | METHOD BLANK |
|---|---|---|
| Acenapthene | ND(10) | ND(10) |
| Acenapthylene | ND(10) | ND(10) |
| Anthracene | ND(10) | ND(10) |
| Benzidine | ND(50) | ND(50) |
| Benzo(a)anthracene | ND(10) | ND(10) |
| Benzo(b)fluoranthene | ND(10) | ND(10) |
| Benzo(k)fluoranthene | ND(10) | ND(10) |
| Benzo(a)pyrene | ND(10) | ND(10) |
| Benzo(g,h,i)perylene | ND(10) | ND(10) |
| Benzyl-butyl phthalate | ND(10) | ND(10) |
| bis(2-Chloroethyl)ether | ND(10) | ND(10) |
| bis(2-Chloroethoxy)methane | ND(10) | ND(10) |
| bis(2-Ethylhexyl)phthalate | ND(10) | ND(10) |
| bis(2-Chloroisopropyl)ether | ND(10) | ND(10) |
| 4-Bromophenyl phenyl ether | ND(10) | ND(10) |
| 2-Chloronaphthalene | ND(10) | ND(10) |
| o-Chlorotoluene | ND(10) | ND(10) |
| p-Chlorotoluene | ND(10) | ND(10) |
| 4-Chlorophenyl phenyl ether | ND(10) | ND(10) |
| Chrysene | ND(10) | ND(10) |
| Dibenzo(a,h)anthracene | ND(10) | ND(10) |
| Di-n-butyl-phthalate | ND(10) | ND(10) |
| 1,2-Dichlorobenzene | ND(10) | ND(10) |
| 1,3-Dichlorobenzene | ND(10) | ND(10) |
| 1,4-Dichlorobenzene | ND(10) | ND(10) |
| 3,3-Dichlorobenzidine | ND(20) | ND(20) |
| Diethyl phthalate | ND(10) | ND(10) |
| Dimethyl phthalate | ND(10) | ND(10) |
| 2,4-Dinitrotoluene | ND(10) | ND(10) |
| 2,6-Dinitrotoluene | ND(10) | ND(10) |
| Di-n-octyl-phthalate | ND(10) | ND(10) |
| 1,2-Diphenylhydrazine | ND(10) | ND(10) |
| Fluoranthene | ND(10) | ND(10) |
| Fluorene | ND(10) | ND(10) |
| Hexachlorobenzene | ND(10) | ND(10) |
| Hexachlorobutadiene | ND(10) | ND(10) |
| Hexachlorocyclopentadiene | ND(10) | ND(10) |
| Hexachloroethane | ND(10) | ND(10) |

PROCEDURE: EPA METHOD 625

RESULTS, ug/l

| BASE/NEUTRAL EXTRACTABLES BY GC/MS | DISTRIBUTION | METHOD BLANK |
|---|---|---|
| Ideno(1,2,3-c,d)pyrene | ND(10) | ND(10) |
| Isophorone | ND(10) | ND(10) |
| Naphthalene | ND(10) | ND(10) |
| Nitrobenzene | ND(10) | ND(10) |
| n-Nitrosodimethylamine | ND(10) | ND(10) |
| n-Nitrosodi-n-propylamine | ND(10) | ND(10) |
| n-Nitrosodiphenylamine | ND(10) | ND(10) |
| Phenanthrene | ND(10) | ND(10) |
| Pyrene | ND(10) | ND(10) |
| 2,3,7,8-Tetrachlorodi-benzo-p-dioxin (dioxin) | ND(1000) | ND(1000) |
| 1,2,4-Trichlorobenzene | ND(10) | ND(10) |
| 2-methyl naphthalene | ND(10) | ND(10) |

PROCEDURE: EPA METHOD 608

RESULTS, ug/l

| ORGANOCHLORINE PESTICIDES | DISTRIBUTION | METHOD BLANK |
|---|---|---|
| Alpha-BHC | ND(1) | ND(1) |
| Beta-BHC | ND(1) | ND(1) |
| Delta-BHC | ND(1) | ND(1) |
| Gamma-BHC | ND(1) | ND(1) |
| Heptachlor | ND(1) | ND(1) |
| Aldrin | ND(1) | ND(1) |
| Heptachlor epoxide | ND(1) | ND(1) |
| Endosulfan 1 | ND(1) | ND(1) |
| Dieldrin | ND(1) | ND(1) |
| 4,4'-DDE | ND(1) | ND(1) |
| O,p-DDE | ND(1) | ND(1) |
| Endosulfan 11 | ND(1) | ND(1) |
| 4,4'-DDD | ND(1) | ND(1) |
| O,p-DDD | ND(1) | ND(1) |
| Endosulfan sulfate | ND(1) | ND(1) |
| 4,4'-DDT | ND(1) | ND(1) |
| O,p-DDT | ND(1) | ND(1) |
| Endrin aldehyde | ND(1) | ND(1) |
| Alpha-Chlordane | ND(1) | ND(1) |
| Gamma-Chlordane | ND(1) | ND(1) |
| Kelthane | ND(1) | ND(1) |
| Toxaphene | ND(5) | ND(5) |

PROCEDURE: EPA METHOD 608

RESULTS, ug/l

| POLYCHLORINATED BIPHENYLS, PCB's | DISTRIBUTION | METHOD BLANK |
|---|---|---|
| Arochlor 1016 | ND(5) | ND(5) |
| Arochlor 1221 | ND(5) | ND(5) |
| Arochlor 1232 | ND(5) | ND(5) |
| Arochlor 1242 | ND(5) | ND(5) |
| Arochlor 1248 | ND(5) | ND(5) |
| Arochlor 1254 | ND(5) | ND(5) |
| Arochlor 1260 | ND(5) | ND(5) |

PROCEDURE: EPA METHOD 622

RESULTS, ug/l

| ORGANOPHOSPHORUS PESTICIDES | DISTRIBUTION | METHOD BLANK |
|---|---|---|
| Diazinon | ND(1) | ND(1) |
| Ethion | ND(1) | ND(1) |
| Guthion (Azinphos methyl) | ND(1) | ND(1) |
| Malathion | ND(1) | ND(1) |
| Parathion | ND(1) | ND(1) |
| Tedion | ND(1) | ND(1) |
| Trithion (Carbophenothion) | ND(1) | ND(1) |

RESULTS

| MISCELLANEOUS | DISTRIBUTION | METHOD BLANK | PROCEDURE | UNITS |
|---|---|---|---|---|
| Temik®, Aldicarb | ND(10) | ND(10) | EPA 531 | ug/l |
| Gross Alpha (Storet #01501) | 10 | † | EPA 900.0 | pCi/l |
| Counting error (Storet #01502) | ± 6.4 | † | EPA 900.0 | pCi/l |

| MISCELLANEOUS | WELL | METHOD BLANK | PROCEDURE | UNITS |
|---|---|---|---|---|
| Ethylene Dibromide, EDB | ND(0.02) | ND(0.02) | EPA 504 | ug/l |

PROCEDURE: In accordance with Federal Register-Vol. 40, No. 248, Part IV- Wednesday, December 24, 1975. U.S. Environmental Protection Agency, National Interim Primary Drinking Water Regulations.

RESULTS, mg/l

| PDWR INORGANIC: | MCL | DISTRIBUTION |
|---|---|---|
| Arsenic, As | 0.05 | <0.010 |
| Barium, Ba | 1.0 | <0.100 |
| Cadmium, Cd | 0.010 | <0.005 |
| Chromium, Cr | 0.05 | <0.010 |
| Lead, Pb | 0.05 | <0.010 |
| Mercury, Hg | 0.002 | <0.0005 |
| Selenium, Se | 0.01 | <0.005 |
| Silver, Ag | 0.05 | <0.010 |
| Nitrate Nitrogen, $NO_3$-N | 10 | 0.15 |
| Fluoride, F | 4.0 | 0.24 |

"ORGANIC ANALYSES BY GAS CHROMATOGRAPHIC SCREENING"

| PDWR ORGANIC: | MCL | DISTRIBUTION |
|---|---|---|
| Endrin | 0.0002 | ND(0.0001) |
| Lindane | 0.004 | ND(0.001) |
| Methoxychlor | 0.1 | ND(0.01) |
| Toxaphene | 0.005 | ND(0.001) |
| 2,4-D | 0.1 | ND(0.01) |
| 2,4,5-TP (Silvex) | 0.01 | ND(0.001) |

RESULTS, mg/l

| MISCELLANEOUS | ENTRY POINT TO DISTRIBUTION | PROCEDURE |
|---|---|---|
| Sodium, Na | 100.0 | EPA 200.7 |
| Total Dissolved Solids | 770 | EPA 160.1 |
| Corrosivity | 0.1 | EPA 110 |
| Phenolphthalein Alkalinity | 0 | EPA 310.1 |
| Total Alkalinity | 140 | EPA 310.1 |
| Carbonate Alkalinity | 0 | EPA 310.1 |
| Bicarbonate Alkalinity | 140 | EPA 310.1 |
| Carbonates | 0 | Calculation |
| Turbidity, NTU | <1 | EPA 180.1 |

PROCEDURE: This water was analyzed according to "Standard Methods for the Examination of Water and Wastewater", 16th Edition, APHA, AWWA, and WPCF (1985).

## RESULTS

| DETERMINATION | (MCL) | DISTRIBUTION | UNITS |
|---|---|---|---|
| Chloride, Cl | (250) | 280 | mg/l |
| Color | (15) | 5 | PCU |
| Foaming Agents, (MBAS) | (0.5) | <0.1 | mg/l |
| Sulfate, $SO_4$ | (250) | 69 | mg/l |
| Total Dissolved Solids | (500) | 750 | mg/l |
| pH (Laboratory) | (6.5-8.5) | 7.7 | units |
| Odor Threshold | (3) | 1 | ---- |
| Fluoride, F | (2) | 0.24 | mg/l |
| Copper, Cu | (1.0) | <0.010 | mg/l |
| Iron, Fe | (0.3) | <0.100 | mg/l |
| Manganese, Mn | (0.05) | <0.050 | mg/l |
| Zinc, Zn | (5) | <0.050 | mg/l |
| Phenolphthalein Alkalinity, $CaCO_3$ | | 0 | mg/l |
| Total Alkalinity, $CaCO_3$ | | 130 | mg/l |
| Carbonate Alkalinity, $CaCO_3$ | | 0 | mg/l |
| Bicarbonate Alkalinity, $CaCO_3$ | | 130 | mg/l |
| Carbonates, $CaCO_3$ | | 0 | mg/l |
| Bicarbonates, $HCO_3$ | | 160 | mg/l |
| Hydroxides, as OH | | 0 | mg/l |
| Carbon Dioxide, $CO_2$ | | 3.9 | mg/l |
| pHs | | 7.5 | ---- |
| Stability Index | | 7.3 | ---- |
| Specific Conductance | | 1100 | umhos |
| Hydrogen Sulfide, $H_2S$ | | <0.1 | mg/l |
| Nitrate Nitrogen, $NO_3$-N | | 0.15 | mg/l |
| Total Hardness, $CaCO_3$ | | 347 | mg/l |
| Magnesium Hardness, $CaCO_3$ | | 154 | mg/l |
| Calcium Hardness, $CaCO_3$ | | 193 | mg/l |
| Calcium, Ca | | 77.2 | mg/l |
| Magnesium, Mg | | 37.3 | mg/l |

## QUALITY CONTROL DATA SHEET

DUPLICATES:

| PARAMETER | % DIFFERENCE | DATE | ANALYST |
|---|---|---|---|
| 1,2,4-Trichlorobenzene | 8 | 01-18-89 | L.B. |
| Acenaphthene | 6 | 01-18-89 | L.B. |
| 2,4-Dinitrotoluene | 6 | 01-18-89 | L.B. |
| Pyrene | 6 | 01-18-89 | L.B. |
| N-Nitroso-Di-n-Propylamine | 4 | 01-18-89 | L.B. |
| 1,4-Dichlorobenzene | 3 | 01-18-89 | L.B. |
| Pentachlorophenol | 30 | 01-18-89 | L.B. |
| Phenol | 5 | 01-18-89 | L.B. |
| 2-Chlorophenol | 6 | 01-18-89 | L.B. |
| 4-Chloro-3-Methylphenol | 10 | 01-18-89 | L.B. |
| 4-Nitrophenol | 30 | 01-18-89 | L.B. |
| Diazinon | 19 | 01-16-89 | J.H. |
| Malathion | 2 | 01-16-89 | J.H. |
| Lindane | 3 | 01-17-89 | J.H. |
| Endrin | 4 | 01-17-89 | J.H. |
| Methoxychlor | 21 | 01-17-89 | J.H. |
| 2,4-D | 5 | 01-17-89 | J.H. |
| 2,4,5-TP | 9 | 01-17-89 | J.H. |
| EDB | 20 | 01-16-89 | J.H. |
| Aldicarb | 5 | 01-17-89 | J.H. |
| Arsenic | <1 | 01-27-89 | J.H. |
| Barium | <1 | 01-23-89 | A.H. |
| Cadmium | 2 | 01-19-89 | J.C. |
| Chromium | 6 | 01-20-89 | C.G. |
| Lead | <1 | 01-18-89 | J.C. |
| Mercury | <1 | 01-30-89 | J.C. |
| Selenium | 2 | 01-23-89 | C.G. |
| Silver | <1 | 01-18-89 | A.H. |
| Calcium | <1 | 01-23-89 | A.H. |
| Magnesium | 1 | 01-23-89 | A.H. |
| Iron | <1 | 01-23-89 | A.H. |
| Manganese | <1 | 01-23-89 | A.H. |
| Copper | 1 | 01-24-89 | A.H. |
| Zinc | <1 | 01-23-89 | A.H. |
| Sodium | 2 | 01-23-89 | A.H. |
| pH | 1 | 01-14-89 | D.A. |
| Total Alkalinity | 6 | 01-14-89 | D.A. |
| Odor | <1 | 01-14-89 | D.A. |
| MBAS | 2 | 01-14-89 | D.A. |
| Turbidity | 2 | 01-13-89 | P.S. |
| Color | <1 | 01-13-89 | P.S. |
| Hydrogen Sulfide | 4 | 01-15-89 | D.A. |
| Fluoride | 4 | 01-15-89 | D.A. |
| TDS | <1 | 01-18-89 | C.G. |
| Specific Conductance | <1 | 01-18-89 | C.F. |
| Sulfate | 1 | 01-18-89 | C.F. |
| Chloride | <1 | 01-18-89 | C.G. |
| Nitrates | 1 | 01-18-89 | C.G. |
| Gross Alpha | 4.7 | 01-20-89 | J.B. |

## QUALITY CONTROL DATA SHEET

SPIKES:

| PARAMETER | % RECOVERY | DATE | ANALYST |
|---|---|---|---|
| 1,2,4-Trichlorobenzene | 73/79 | 01-18-89 | L.B. |
| Acenaphthene | 83/78 | 01-18-89 | L.B. |
| 2,4-Dinitrotoluene | 87/82 | 01-18-89 | L.B. |
| Pyrene | 79/74 | 01-18-89 | L.B. |
| N-Nitroso-Di-n-Propylamine | 82/79 | 01-18-89 | L.B. |
| 1,4-Dichlorobenzene | 71/69 | 01-18-89 | L.B. |
| Pentachlorophenol | 99/73 | 01-18-89 | L.B. |
| Phenol | 43/45 | 01-18-89 | L.B. |
| 2-Chlorophenol | 69/65 | 01-18-89 | L.B. |
| 4-Chloro-3-Methylphenol | 65/72 | 01-18-89 | L.B. |
| 4-Nitrophenol | 69/51 | 01-18-89 | L.B. |
| Diazinon | 164/183 | 01-16-89 | J.H. |
| Malathion | 86/88 | 01-16-89 | J.H. |
| Lindane | 81/78 | 01-17-89 | J.H. |
| Endrin | 95/91 | 01-17-89 | J.H. |
| Methoxychlor | 92/113 | 01-17-89 | J.H. |
| 2,4-D | 129/134 | 01-17-89 | J.H. |
| 2,4,5-TP | 108/117 | 01-17-89 | J.H. |
| EDB | 91/112 | 01-16-89 | J.H. |
| Aldicarb | 75/70 | 01-17-89 | J.H. |
| Arsenic | 105 | 01-27-89 | J.H. |
| Barium | 100 | 01-23-89 | A.H. |
| Cadmium | 95 | 01-19-89 | J.C. |
| Chromium | 107 | 01-20-89 | C.G. |
| Lead | 101 | 01-18-89 | J.C. |
| Mercury | 94 | 01-30-89 | J.C. |
| Selenium | 96 | 01-23-89 | C.G. |
| Silver | 97 | 01-18-89 | A.H. |
| Calcium | 97 | 01-23-89 | A.H. |
| Magnesium | 96 | 01-23-89 | A.H. |
| Iron | 105 | 01-23-89 | A.H. |
| Manganese | 97 | 01-23-89 | A.H. |
| Copper | 101 | 01-24-89 | A.H. |
| Zinc | 107 | 01-23-89 | A.H. |
| Sodium | 91 | 01-23-89 | A.H. |
| pH | N/A | | |
| Total Alkalinity | 100/95 | 01-14-89 | D.A. |
| Odor | N/A | | |
| MBAS | 106/104 | 01-14-89 | D.A. |
| Turbidity | N/A | | |
| Color | N/A | | |
| Hydrogen Sulfide | 93/96 | 01-15-89 | D.A. |
| Fluoride | 92/96 | 01-15-89 | D.A. |
| TDS | 95/95 | 01-18-89 | C.G. |
| Specific Conductance | 98/98 | 01-18-89 | C.F. |
| Sulfate | 97/98 | 01-18-89 | C.F. |
| Chloride | 97/97 | 01-18-89 | C.G. |
| Nitrates | 95/94 | 01-18-89 | C.G. |
| Gross Alpha | 101/96 | 01-20-89 | J.B. |

DATE DUE 1/22/89 R.B.# 1075

CHAIN OF CUSTODY

NOTE: THIS FORM MUST BE FILLED OUT BEFORE ANY SAMPLES WILL BE RECEIVED!

OLI PROJECT NO. 89 01132

Client' Project No. _____

Client Ruth Stark Address 1000 Cole Place Apopka FL Phone.

Site name and location: St John Highlands

Samples collected by:

| LAB USE ONLY | Sample ID | Time collected Date | Time | Sample type (List Hazardous Waste Considerations If Any) | FIELD BLK | PWR DRK HARDCK | SECONDARY | PAH SEC | PAH VOC | Requested analysis | | | | | | | TOTALS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Distribution | 1/12 | 1700 | WATER / SOIL / OTHER | | X | X | X | X | | | | X | | | | |
| 2 | [redacted] | 1/12 | 1700 | WATER / SOIL / OTHER | X | | | | | | | | | | | | |
| 3 | Entry Point to Distribut. | 1/12 | 1700 | WATER / SOIL / OTHER | | | | | | X | X | X | | | | | |
| | | | | WATER / SOIL / OTHER | | | | | | | | | | | | | |
| | | | | WATER / SOIL / OTHER | | | | | | | | | | | | | |
| | | | | WATER / SOIL / OTHER | | | | | | | | | | | | | |
| | | | | WATER / SOIL / OTHER | | | | | | | | | | | | | |
| | | | | WATER / SOIL / OTHER | | | | | | | | | | | | | |
| | | | | WATER / SOIL / OTHER | | | | | | | | | | | | | |
| | | | | WATER / SOIL / OTHER | | | | | | | | | | | | | |

Relinquished by signature _____ DATE & TIME _____

Relinquished by signature _____ DATE & TIME _____

Received by signature Richard Cathcart DATE & TIME 1/12/89 4:30

Received by signature _____ DATE & TIME _____

0596

HRS

State of Florida
Department of Health and Rehabilitative Services
Office of Laboratory Services
P.O. Box 210
Jacksonville, Florida 32231

I.D. NO. 13603
FOR LAB USE ONLY JRL
DEC 4 1 58 PM '91
12/5

# DRINKING WATER BACTERIOLOGICAL ANALYSIS

SYSTEM NAME: St Johns Highlands SYSTEM I.D. NO: 2540429 SYSTEM PHONE #: 649-4143
ADDRESS: Tyler St. COUNTY: Putnam DER DISTRICT: 2
COLLECTOR: [illegible] COLLECTOR PHONE #: 649-4143
SAMPLE SITE (Locality or Subdivision): Subdurision
DATE AND TIME COLLECTED: 12/4/91 10 30

TYPE OF SUPPLY(Circle one): (Community water system) Noncommunity water system Nontransient - noncommunity water system
Private well Swimming pool Bottled water T.A./Other public water system

TYPE OF SAMPLE(Circle one): (Compliance) Repeat Replacement Main clearance Well survey Other _____ (Specify)
(Check Box) (Check Box)
[Y] Distribution [ ] TNTC or C:
[Y] Raw [ ] Turbid
[ ]

REMARKS:

| TO BE COMPLETED BY COLLECTOR OF SAMPLE | | | | TO BE COMPLETED BY LAB | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | ANALYSIS METHOD: | MF | MTF | NMO-MUG | PA |
| COLL. NO. | SAMPLE POINT (Specific Address) | Cl RES'D | pH | SAMPLE NUMBER | NON COLIFORM | *TOTAL | CONFIRM TOTAL | CONFIRM FECAL |
| 1 | Well | | 7.4 | 071658 | M | A | | |
| 2 | Dist 1 Lot 14 Blk 4 | 7.2 | | 071659 | | A | | |
| 3 | Dist 2 Lot 2 Blk 3 | .2 | | 071660 | | A | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

* Results in this column are preliminary. Fecal coliform confirmation on community and noncommunity water systems and total coliform confirmation on all types of water systems will follow in 24-48 hours.

P - Coliforms are present C - Confluent growth TA - Turbid, Absence of gas or acid
A - Coliforms are absent TNTC - Too numerous to count

(INTERPRETATIONS-REMARKS BY PROGRAM REVIEWER)

Blanca R. Rodriguez, Engineer
(Dept. of Env. Regulation
DEC 12 '91
( ) SATISFACTORY
( ) INCOMPLETE COLLECTION INFORMATION
( ) REPEAT SAMPLES
(X) REPLACEMENT SAMPLES

NAME AND MAILING ADDRESS OF PERSON/FIRM TO RECEIVE REPORT

SSU SERVICES
Putnam County Office
P. O. Box 458
Pomona Park, FL 32181

REVIEWING OFFICIAL: _____

TITLE: _____

HRS Form 888, Jan 91 (Obsoletes previous editions which may not be used) (Stock Number: 5740-000-0481-5)

# Stone Mountain - 565

**Lake County (SSU)**

**Water**

## - 1992 FPSC Filing -

# Stone Mountain

## Chemical Analyses

**The most recent chemical analyses for the water system conducted by a certified laboratory covering the inorganic, organic, turbidity, microbiological, radionuclide, secondary and unregulated contaminants.**

| Chemical Analysis | Date Taken |
|---|---|
| Inorganic | 8/90 |
| Organic | 8/90 |
| Volatile Organic Chemicals | 3/91 |
| | 5/91 |
| | 8/91 |
| | 11/91 |
| Turbidity | 8/90 |
| Microbiological | 12/91 |
| Radionuclide | 8/90 |
| Secondary Contaminants | 8/90 |
| Unregulated Contaminants | 3/91 |

# ORLANDO LABORATORIES INC.

Plant file
Revised

P.O. Box 149127 • Orlando, Florida 32814

REPORT OF ANALYSIS

Southern States Utilities
1000 Color Place
Apopka, Florida 32703

Attn: Aaron Perlowich

Work Order # : 90-08-379
Date Received: 08/30/90
Date Reported: 09/11/90
OLI Contact: E_HOBBS

Work ID: 565 Stone Mountain ID#335/182
Total Samples: 2

Sampling information is based on data supplied by Client

| SAMPLE IDENTIFICATION | TEST CODES and NAMES used on this report |
|---|---|
| 01 Cooler #110 distribution | PWS026 Turbidity Analysis |
| 02 Method Blank | PWS029 Organic Chemical Analysis |
| | PWS030 Inorganic Analysis |
| | PWS031 Secondary Chem. Analysis |
| | PWS033 Radiological Analysis |

OLI Florida Department of Health & Rehabilitative Service Identification Numbers are:
Drinking Water Certification Number 83141, Environmental Certification Number E83033

Respectfully Submitted,
ORLANDO LABORATORIES, INC.

Acting
LABORATORY DIRECTOR

Eric Malarek
QUALITY CONTROL

*Dedicated To Excellence*

(407) 896-6645 (800) 826-8320 FAX (407) 898-6588

ORLANOD LABORATORIES,INC.
Received: 08/30/90

REPORT OF ANALYSIS

Work Order # 90-08-379

Southern States Utilities
1000 Color Place
Apopka, Florida 32703

Date Reported: 10/30/90
OLI Contact: E_HOBBS

Attn: Aaron Perlowich

Work ID: 565 Stone Montain ID#335282
Total Samples: 2
Matrix:

Sampling information is based on data supplied by Client

| SAMPLE IDENTIFICATION | TEST CODES and NAMES used on this report |
|---|---|
| 01 Cooler #110 distribution | PWS026 Turbidity Analysis |
| 02 Method Blank | PWS029 Organic Chemical Analysis |
| | PWS030 Inorganic Analysis |
| | PWS031 Secondary Chem. Analysis |
| | PWS033 Radiological Analysis |

OLI Florida Department of Health & Rehabilitative Service Identification Numbers are:
Drinking Water Certification Number 83141, Environmental Certification Number E83033

Respectfully Submitted,
ORLANDO LABORATORIES, INC.

Acting
LABORATORY DIRECTOR

Eric Malarek
QUALITY CONTROL

ORLANDO LABORATORIES,INC.
Received: 08/30/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-08-379

SAMPLE ID Cooler #110 distribution
DATE COLLECTED 08/30/90 08:45:00
TEST NAME Turbidity Analysis

SAMPLE# 01A
MATRIX WATER
TEST CODE PWS026

TURBIDITY ANALYSIS
17-550.310(3)
(PWS026)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(NTU) | Analytical Method | Analysis Date |
|---|---|---|---|---|---|---|
| 0100 | Turbidity | | | 0.25 | EPA 180.1 | 08/31/90 |

Comments:

ORLANDO LABORATORIES,INC.
Received: 08/30/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-08-379

SAMPLE ID Cooler #110 distribution
DATE COLLECTED 08/30/90 08:45:00
TEST NAME Organic Chemical Analysis

SAMPLE# 01A
MATRIX WATER
TEST CODE PWS029

ORGANIC CHEMICAL ANALYSIS
17-550.310(2)(a)(b)
(PWS029)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|---|
| 2005 | Endrin | | | 0.00010 | U | EPA 608 | 0.00010 | 08/31/90 |
| 2010 | Lindane | | | 0.00005 | U | EPA 608 | 0.00005 | 08/31/90 |
| 2015 | Methoxychlor | | | 0.00050 | U | EPA 608 | 0.00050 | 08/31/90 |
| 2020 | Toxaphene | | | 0.00100 | U | EPA 608 | 0.00100 | 08/31/90 |
| 2105 | 2,4-D | | | 0.0020 | U | EPA 615 | 0.0020 | 09/01/90 |
| 2110 | 2,4,5-TP (Silvex) | | | 0.0010 | U | EPA 615 | 0.0010 | 09/01/90 |

Comments:

ORLANDO LABORATORIES, INC.
Received: 08/30/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-08-379

SAMPLE ID Cooler #110 distribution
DATE COLLECTED 08/30/90 08:45:00
TEST NAME Inorganic Analysis

SAMPLE# 01A
MATRIX WATER
TEST CODE PWS030

INORGANIC ANALYSIS
17-550.310(1)
(PWS030)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1005 | Arsenic | | | <0.010 | EPA 206.2 | 0.010 | 09/02/90 |
| 1010 | Barium | | | <0.100 | EPA 200.7 | 0.100 | 09/07/90 |
| 1015 | Cadmium | | | <0.005 | EPA 213.2 | 0.005 | 09/07/90 |
| 1020 | Chromium | | | <0.010 | EPA 218.2 | 0.010 | 09/07/90 |
| 1025 | Fluoride | | | <0.1 | EPA 340.2 | 0.1 | 09/12/90 |
| 1030 | Lead | | | <0.010 | EPA 239.2 | 0.010 | 09/06/90 |
| 1035 | Mercury | | | <0.0005 | EPA 245.1 | 0.0005 | 09/05/90 |
| 1040 | Nitrate (as N) | | | 5.2 | EPA 352.2 | 0.03 | 09/06/90 |
| 1045 | Selenium | | | <0.005 | EPA 270.2 | 0.005 | 09/03/90 |
| 1050 | Silver | | | <0.010 | EPA 272.2 | 0.010 | 09/10/90 |
| 1052 | Sodium | | | 5.80 | EPA 200.7 | 0.001 | 09/07/90 |

Comments:

ORLANDO LABORATORIES, INC.
Received: 08/30/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-08-379

SAMPLE ID Cooler #110 distribution
DATE COLLECTED 08/30/90 08:45:00
TEST NAME Secondary Chem. Analysis

SAMPLE# 01A
MATRIX WATER
TEST CODE PWS031

SECONDARY CHEMICAL ANALYSIS
17-550.320
(PWS031)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1016 | Calcium | | | 46.0 | EPA 200.7 | 0.1 | 09/07/90 |
| 1017 | Chloride | | | 13 | SM 407 | 1.0 | 09/04/90 |
| 1019 | Carbonate CaCO3 | | | NOT ANALYZED | | | |
| 1021 | Hydroxide CaCO3 | | | NOT ANALYZED | | | |
| 1022 | Copper | | | <0.010 | EPA 200.7 | 0.010 | 09/07/90 |
| 1023 | Bicarbonate CaCO3 | | | NOT ANALYZED | | | |
| 1025 | Fluoride | | | <0.1 | EPA 340.2 | 0.1 | 09/04/90 |
| 1026 | Bicarbonate HCO3 | | | NOT ANALYZED | | | |
| 1027 | Hydrogen Sulfide | | | NOT ANALYZED | | | |
| 1028 | Iron | | | <0.100 | EPA 200.7 | 0.100 | 09/07/90 |
| 1031 | Magnesium | | | NOT ANALYZED | | | |
| 1032 | Manganese | | | <0.050 | EPA 200.7 | 0.050 | 09/07/90 |
| 1055 | Sulfate | | | 9.4 | EPA 375.4 | 1.0 | 09/04/90 |
| 1095 | Zinc | | | <0.050 | EPA 200.7 | 0.050 | 09/07/90 |
| 1901 | Carbon Dioxide | | | 1.4 | SM 406 C | 1.0 | 09/11/90 |
| 1905 | Color (color units) | | | <5.0 | EPA 270.2 | 5 PCU | 08/31/90 |
| 1915 | Total Hardness | | | 114 | EPA 200.7 | 0.050 | 09/07/90 |
| 1917 | NCH as CaCO3 | | | NOT ANALYZED | | | |
| 1920 | Odor | | | 1.0 | EPA 140.1 | 1 | 08/31/90 |
| 1924 | Field pH (units) | | | 7.1 | EPA 150.1 | N/A | 08/30/90 |
| 1925 | Lab pH (units) | | | 8.28 | EPA 150.1 | N/A | 08/31/90 |
| 1926 | Field Conductivity | | | 357 | EPA 120.1 | N/A | 08/30/90 |

ORLANDO LABORATORIES,INC.
Received: 08/30/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-08-379
Continued From Above

SAMPLE ID Cooler #110 distribution
DATE COLLECTED 08/30/90 08:45:00
TEST NAME Secondary Chem. Analysis

SAMPLE# 01A
MATRIX WATER
TEST CODE PWS031

*** Contiued from above***
SECONDARY CHEMICAL ANALYSIS
17-550.320
(PWS031)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1927 | Total Alkalinity | | | 120 | EPA 310.1 | 2.0 | 08/31/90 |
| 1930 | TDS | | | 110 | EPA 160.1 | 1.0 | 09/06/90 |
| 1931 | Phenolphthalein Alk. | | | <2.0 | EPA 310.1 | 2.0 | 08/31/90 |
| 1996 | Field Temp. (C) | | | 79 F | EPA 170.1 | N/A | 08/30/90 |
| 1997 | Langlier Index pHs | | | 7.65 | CALC | N/A | 09/11/90 |
| 1998 | Saturation Index | | | 0.63 | CALC | N/A | 09/11/90 |
| 1999 | Stability Index | | | 7.02 | CALC | N/A | 09/11/90 |
| 2909 | Foaming Agents | | | <0.1 | EPA 425.1 | 0.1 | 08/31/90 |
| 9996 | Field DO | | | 5.2 | EPA 360.1 | 0.1 | 08/30/90 |
| 9997 | Field Chlorine | | | 0.8 | | N/A | 08-30-90 |

Comments:

ORLANDO LABORATORIES,INC.
Received: 08/30/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-08-379

SAMPLE ID Cooler #110 distribution
DATE COLLECTED 08/30/90 08:45:00
TEST NAME Radiological Analysis

SAMPLE# 01A
MATRIX WATER
TEST CODE PWS033

RADIOLOGICAL ANALYSIS
17-550.310(5)
(PWS033)

| Parameter ID | Name | Sample Number | Analysis Result(pCi/l) | Analytical Method | Analysis Error | Analysis Date |
|---|---|---|---|---|---|---|
| 4002 | Gross Alpha | | <0.5 | EPA 900.0 | +/- 1.2 | 09/10/90 |
| 4006 | Total Uranium | | N/A | | | |
| 4010 | Total Radium | | N/A | | | |
| 4020 | Radium-226 | | N/A | | | |
| 4030 | Radium-228 | | N/A | | | |
| 4100 | Gross Beta | | N/A | | | -- |

Comments:

ORLANDO LABORATORIES,INC.
Received: 08/30/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-08-379

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME Organic Chemical Analysis

SAMPLE# 02A
MATRIX METHOD BLANK
TEST CODE PWS029

ORGANIC CHEMICAL ANALYSIS
17-550.310(2)(a)(b)
(PWS029)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|---|
| 2005 | Endrin | | | 0.00010 | U | EPA 608 | 0.00010 | 08/31/90 |
| 2010 | Lindane | | | 0.00005 | U | EPA 608 | 0.00005 | 08/31/90 |
| 2015 | Methoxychlor | | | 0.00050 | U | EPA 608 | 0.00050 | 08/31/90 |
| 2020 | Toxaphene | | | 0.00100 | U | EPA 608 | 0.00100 | 08/31/90 |
| 2105 | 2,4-D | | | 0.0020 | U | EPA 615 | 0.0020 | 09/01/90 |
| 2110 | 2,4,5-TP (Silvex) | | | 0.0010 | U | EPA 615 | 0.0010 | 09/01/90 |

Comments:

Southern States Utilities
Attn: Aaron Perlowich

Report No: 90-08-379
Page No: 9

## QUALITY CONTROL DATA SHEET

| PARAMETER | DUPLICATES % DIFFERENCE | SPIKES % RECOVERY | DATE | ANALYST |
|---|---|---|---|---|
| Chloride | 5 | 104 | 09/04/90 | RJW |
| Fluoride | 3 | 83 | 09/04/90 | CH |
| Sulfate | <1 | 105 | 09/04/90 | KH |
| Color | <1 | N/A | 08/31/90 | RJW |
| Odor | <1 | N/A | 08/31/90 | RJW |
| TDS | 2 | N/A | 09/06/90 | KH |
| MBAS | 3 | 87 | 08/31/90 | RAW |
| pH | 1 | N/A | 08/31/90 | RJW |
| Total Alkalinity | <1 | 104 | 08/31/90 | RJW |
| Nitrogen, Nitrite | <1 | 104 | 08/31/90 | KH |
| Nitrogen, Nitrate | <1 | 100 | 09/06/90 | DR |
| Turbidity | <1 | N/A | 08/31/90 | RJW |
| Chloride | 3 | 101 | 09/04/90 | RJW |
| Gross Alpha | 0.2 | 85 | 09/10/90 | JAB |
| Arsenic | <1 | 104 | 09/02/90 | CFG |
| Selenium | <1 | 101 | 09/03/90 | CFG |
| Lead | 8 | 107 | 09/06/90 | JC |
| Mercury | <1 | 103 | 09/05/90 | LG |
| Barium | <1 | 107 | 09/07/90 | BB |
| Cadmium | <1 | 109 | 09/07/90 | BB |
| Chromium | <1 | 100 | 09/07/90 | BB |
| Sodium | 1 | 108 | 09/07/90 | BB |
| Copper | <1 | 103 | 09/07/90 | BB |
| Iron | 3 | 109 | 09/07/90 | BB |
| Manganese | <1 | 97 | 09/07/90 | BB |
| Zinc | <1 | 100 | 09/07/90 | BB |
| Calcium | 1 | 108 | 09/07/90 | BB |
| Silver | <1 | 97 | 09/10/90 | BB |

NOTE: The duplicate for Gross Alpha is reported as actual difference rather than percent difference as specified.

ORLANDO LABORATORIES, INC.

GC ORGANICS



# MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 08-31-1990

LAB SAMPLE # : 9008350-01a
ANALYSIS DATE : 08/31/90

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| GAMMA-BHC (LINDANE) | 100 | 0 | 105 | 105 | 117 | 117 | 11 |
| HEPTACHLOR | 100 | 0 | 106 | 106 | 112 | 112 | 6 |
| ALDRIN | 100 | 0 | 104 | 104 | 110 | 110 | 6 |
| DIELDRIN | 100 | 0 | 108 | 108 | 108 | 108 | 0 |
| ENDRIN | 100 | 0 | 108 | 108 | 108 | 108 | 0 |
| 4,4-DDT | 100 | 0 | 104 | 104 | 113 | 113 | 8 |

COMMENTS :

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| GAMMA-BHC (LINDANE) | 56 | 123 | 15 | 46 | 127 | 50 |
| HEPTACHLOR | 40 | 131 | 20 | 35 | 130 | 31 |
| ALDRIN | 40 | 120 | 22 | 34 | 132 | 43 |
| DIELDRIN | 52 | 126 | 18 | 31 | 134 | 38 |
| ENDRIN | 56 | 121 | 21 | 42 | 139 | 45 |
| 4,4-DDT | 38 | 127 | 27 | 23 | 134 | 50 |

ORLANDO LABORATORIES, INC.



GC ORGANICS

# MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 09-05-1990

LAB SAMPLE # : 9008378-01A
ANALYSIS DATE : 09/01/90

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| PICLORAM | 100 | 0 | 100 | 100 | 115 | 115 | 6 |
| 2,4,5-TP (silvex) | 100 | 0 | 94 | 94 | 95 | 95 | 1 |

COMMENTS :

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| PICLORAM | 80 | 175 | 30 | 80 | 175 | 30 |
| 2,4,5-TP (silvex) | 80 | 175 | 30 | 80 | 175 | 30 |

End of Report

# PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 3351282
Public Water System Name: Stone Mountain
Public Water System Type (check one):
( ) Community (✓) Non-community ( ) Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: 83141
Parameter Group(s) Analyzed: Turbidity, Organic Chemistry, Inorganics, Secondaries & Radiological
Subcontracted Lab Certification Number (if any): N/A

**SAMPLE INFORMATION**
Sample Date (MMDDYY): 08 / 30 / 90
Laboratory Sample Number: 90-08-379
Sample Location (be specific): Valve, F/b.
Sample Type (check all applicable):
( ) Check (✓) Regular Distribution ( ) Composite
( ) Clearance ( ) Maximum Residence Time ( ) Plant Tap
( ) Raw ( ) Well ( ) Re-sample
( ) Special
Sampler Name, Title, Phone: Dennis Moro, Operator I, 880-0057

**ANALYSIS INFORMATION** 08/30/90 FMS029 08/31/90 FMS029
Extraction Date (MMDDYY): / /
Laboratory Contact: Eric Malarek
Re-sample Requested? (check one): ( ) Yes (✓) No
ANALYSES SUBMITTED: Turbidity__; Inorganic__; Trihalomethane__; Volatile Organic__; Organic Chemical__; Secondary Chemical__; Radiological__; Unregulated Organic Purgeable__; Unregulated Organic Pesticide__; Unregulated Base Neutral Extractable__; Unregulated Acid Extractable__; (Check all analyses which apply.)

I do HEREBY CERTIFY that all data submitted is correct.

Signature Eric Malarek
Name Eric Malarek
Title Quality Control Officer
Laboratory Orlando Laboratories, Inc.
Date 9-13-90

Mail Results to the Appropriate DER or ACPHU Office:

DER/ACPHU Reviewing Official:

Sample Interpretation (check one)
( ) Satisfactory ( ) Unsatisfactory

**ORLANDO LABORATORIES, INC.**
P.O. Box 149127, Orlando, FL 32814
(407) 896-6645 FAX (407) 898-6588

# CHAIN-OF-CUSTODY RECORD
(INSTRUCTIONS ON BACK)

Page 1 of 1

| 1 INVOICE TO (COMPANY AND INDIVIDUAL) / ADDRESS (CITY, STATE, ZIP) | 2 CONTACT PERSON/PHONE # INVOICE | 3 OLI WORK ORDER # (LAB USE) |
|---|---|---|
| SSU Sewer — 1000 Color Place Apopka, Fla. 32703 | 880-0100 | 9008379 |
| **4 ORIGINAL REPORT TO (COMPANY AND INDIVIDUAL) / ADDRESS (CITY, STATE, ZIP)** | **5 CONTACT PERSON/PHONE # REPORT** | **6 RB NUMBER (LAB USE)** |
| Aaron Perlewich — Same as above | Same as above | 1823 |
| **7 (OPTIONAL) ADDITIONAL REPORTS SENT TO / ADDRESS (CITY, STATE, ZIP)** | **17 NUMBER OF CONTAINERS** | |
| **8 CLIENT PROJECT NAME** | **9 CLIENT PROJECT #** | |
| Stone Mountain | 565 | |

| 10 SAMPLE IDENTIFICATION | 11 DATE/TIME | 12 COMP | GRAB | WATER | SOIL | OTHER | 13 SAMPLE DESCRIPTION | NUMBER OF CONTAINERS | 18 REQUESTED ANALYSIS: Summit Coliform/Ecoli; Settling Alk + Gill Lab; Turb + O-A; Primary Organics; Cost/Hardness | 19 REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| Cooler #110 | 8/30/02 945am | | ✓ | ✓ | | | Raw Water Distribution | | ✓ ✓ ✓ | |

| TRANSFER NUMBER | 14 RELINQUISHED BY | 15 DATE/TIME | 16 ACCEPTED BY |
|---|---|---|---|
| 1st | [signature] | 8/30 9:30 | |
| 2nd | ~~Dennis W. Moro~~ | 8/30 945am | [signature] |
| 3rd | | | |

**20 ADDITIONAL REMARKS** P.O. 5.2
Temp. 79 F
Conductivity - 367
PH - 7.1

**21 COOLER #'s**
10

**22**
Dennis W. Moro
SAMPLER'S SIGNATURE

ORIGINAL - LAB
YELLOW - FILE

0613

SSU SERVICES

**General Offices**
1000 Color Place
Apopka, FL 32703
(407) 880-0058

April 30, 1991

Ms. Marie Carrasquillo
State of Florida
Department of Environmental Regulations
3319 Maguire Boulevard
Suite 232
Orlando, Florida 32803-3767

Re: Fern Terrace PWS ID #3350370
Piney Woods/Spring Lake PWS ID #3351021
Stone Mountain PWS ID #3351282
Imperial Terrace PWS ID #3350584
Skycrest PWS ID #3351205
Grand Terrace PWS ID #3354697
Sunshine Parkway PWS ID #3350691

Dear Ms. Carrasquillo,

Enclosed please find results for Volatile Organic Analysis, Unregulated Organic Purgeables, Unregulated Organic Pesticides, Unregulated Base Neutral Extracts and Unregulated Acid Extractables for the above referenced facilities.

Please enter this information into your records.

Sincerely,

SSU Services

Donald B. Corder

Donald B. Corder
Area Supervisor

DBC/jlm
cc: Charles Sweat
Frank Sanderson
Ralph Terrero
Clara Dozier
File

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Apr16 1991
PO Number: B91039

PO Number
FDHRS Lab# : 83139
FDER Lab# : EB3018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: Water Sample
Date Received: Mar26 1991 Lab Number : 16538

REPORT OF ANALYSIS

Stone mountain
1 Qt.

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16538 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 94.0 | 3.52 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 115 | 8.65 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 108 | .790 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 108 | .790 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 112 | 8.27 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 101 | .406 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 102 | 1.06 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 112 | .654 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 119 | 5.18 | <0.001 |
| Benzene | mg/L | 0.001 | 93.8 | .469 | <0.001 |
| Chloromethane | mg/L | 0.001 | 113 | .805 | <0.001 |
| Dichlorodifluorometh | mg/L | 0.001 | 102 | 1.06 | <0.001 |
| Bromomethane | mg/L | 0.001 | 113 | .805 | <0.001 |
| Chloroethane | mg/L | 0.001 | 108 | .790 | <0.001 |
| Trichlorofluorometha | mg/L | 0.001 | 102 | 1.06 | <0.001 |
| trans-1,3,-dichlorop | mg/L | 0.001 | 110 | .789 | <0.001 |
| cis-1,3-dichloroprop | mg/L | 0.001 | 114 | 6.25 | <0.001 |
| Methyl-tert-butyleth | mg/L | 0.001 | 105 | 4.91 | <0.001 |
| cis-1,2-dichloroethe | mg/L | 0.001 | 114 | 6.25 | <0.001 |
| Dibromomethane | mg/L | 0.001 | 113 | .805 | <0.001 |
| 1,1-dichloropropene | mg/L | 0.001 | 107 | 0.88 | <0.001 |
| 1,3-dichloropropane | mg/L | 0.001 | 110 | .789 | <0.001 |
| 1,2,3-trichloropropa | mg/L | 0.001 | 108 | 8.11 | <0.001 |
| 2,2-dichloropropane | mg/L | 0.001 | 108 | .790 | <0.001 |
| 1,2-dibromo-3-chloro | mg/L | 0.001 | 108 | 8.11 | <0.001 |
| Chloroform | mg/L | 0.001 | 87.2 | .055 | <0.001 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
441 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984
FAX (407) 260-0119

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Apr16 1991
PO Number: 891039

PO Number
FDHRS Lab# : 83139
FDER Lab# : EB3018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: Water Sample
Date Received: Mar26 1991 Lab Number : 16538

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16538 |
|---|---|---|---|---|---|
| Bromoform | mg/L | 0.001 | 118 | 7.84 | <0.001 |
| Bromodichloromethane | mg/L | 0.001 | 102 | 3.28 | <0.001 |
| Dibromochloromethane | mg/L | 0.001 | 116 | 3.14 | <0.001 |
| p-xylene | mg/L | 0.001 | 109 | 7.34 | <0.001 |
| Methylene chloride | mg/L | 0.001 | 113 | .805 | <0.001 |
| o-chlorotoluene | mg/L | 0.001 | 104 | 5.33 | <0.001 |
| p-chlorotoluene | mg/L | 0.001 | 94.7 | 2.11 | <0.001 |
| m-dichlorobenzene | mg/L | 0.001 | 116 | 8.44 | <0.001 |
| o-dichlorobenzene | mg/L | 0.001 | 114 | 5.62 | <0.001 |
| 1,1-dichloroethane | mg/L | 0.001 | 101 | .393 | <0.001 |
| trans-1,2-dichloroet | mg/L | 0.001 | 109 | 4.49 | <0.001 |
| 1,2-dichloropropane | mg/L | 0.001 | 103 | .462 | <0.001 |
| 1,1,2-trichloroethan | mg/L | 0.001 | 120 | 4.60 | <0.001 |
| 1,1,1,2-tetrachloroe | mg/L | 0.001 | 108 | 5.39 | <0.001 |
| 1,1,2,2-tetrachloroe | mg/L | 0.001 | 118 | 8.78 | <0.001 |
| Chlorobenzene | mg/L | 0.001 | 109 | .539 | <0.001 |
| Toluene | mg/L | 0.001 | 94.7 | 2.11 | <0.001 |
| Ethylbenzene | mg/L | 0.001 | 99.5 | 3.11 | <0.001 |
| Bromobenzene | mg/L | 0.001 | 109 | .539 | <0.001 |
| m-xylene | mg/L | 0.001 | 109 | 7.34 | <0.001 |
| Styrene | mg/L | 0.001 | 94.7 | 2.11 | <0.001 |
| o-xylene | mg/L | 0.001 | 109 | 7.34 | <0.001 |
| Dalapon | mg/L | 0.000001 | 101 | 7.33 | <0.000001 |
| Oxamyl (Vydate) | mg/L | 0.002 | 93.8 | 5.66 | <0.002 |
| Simazine | mg/L | 0.007 | 99.8 | 1.68 | <0.007 |
| Picloram | mg/L | 0.00007 | 92.0 | 6.15 | <0.00007 |

Data Release Authorization

Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director

Jefferson S. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P O BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
305 407 339-4984
FAX 407 830-

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Apr16 1991
PO Number: B91039

PO Number
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: Water Sample
Date Received: Mar26 1991 Lab Number : 16538

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16538 |
|---|---|---|---|---|---|
| Dinoseb | mg/L | 0.00001 | 110 | 2.26 | <0.00001 |
| Aldicarb sulfoxide | mg/L | 0.002 | 95.8 | 5.54 | <0.002 |
| Aldicarb sulfone | mg/L | 0.002 | 95.0 | 8.19 | <0.002 |
| Metolachlor | mg/L | 0.0005 | 98.0 | 4.33 | <0.0005 |
| Carbofuran | mg/L | 0.001 | 97.0 | .000 | <0.001 |
| Aldicarb | mg/L | 0.002 | 110 | 5.81 | <0.002 |
| Atrazine | mg/L | 0.002 | 104 | 5.22 | <0.002 |
| Alachlor (Lasso) | mg/L | 0.0002 | 87.0 | 10.6 | <0.0002 |
| Heptachlor | mg/L | 0.000005 | 102 | .834 | <0.000005 |
| Aldrin | mg/L | 0.00007 | 110 | .642 | <0.00007 |
| Dieldrin | mg/L | 0.00001 | 97.1 | 8.88 | <0.00001 |
| Dicamba | mg/L | 0.00001 | 85.5 | 19.8 | <0.00001 |
| Chlordane | mg/L | 0.00001 | 101 | 2.39 | <0.00001 |
| Pentachlorophenol | mg/L | 0.005 | 88.7 | 2.07 | <0.005 |
| Hexachlorocyclopenta | mg/L | 0.001 | 111 | 2.55 | <0.001 |
| Dioxin | mg/L | 0.00001 | 97.9 | 3.61 | <0.00001 |
| Isophorone | mg/L | 0.001 | 96.2 | 3.47 | <0.001 |
| 2,4-dinitrotoluene | mg/L | 0.001 | 99.9 | 6.20 | <0.001 |
| Dimethylphthalate | mg/L | 0.001 | 98.7 | 3.64 | <0.001 |
| Diethylphthalate | mg/L | 0.001 | 102 | 4.04 | <0.001 |
| Di-n-butylphthalate | mg/L | 0.001 | 99.2 | 2.74 | <0.001 |
| Butyl benzyl phthala | mg/L | 0.001 | 102 | 3.21 | <0.001 |
| Bis(2-ethylhexyl)pht | mg/L | 0.001 | 98 | 4.43 | <0.001 |
| 1,2,4-trichlorobenze | mg/L | 0.001 | 98.3 | 4.44 | <0.001 |
| PCB_1016 | mg/L | 0.0001 | 96.7 | 1.32 | <0.0001 |
| PCB_1221 | mg/L | 0.0001 | 96.3 | 1.91 | <0.0001 |

Data Release Authorization

Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P O BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS 407 339-5984
FAX 407 260-0118

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Apr16 1991
PO Number: B91039

PO Number
FDHRS Lab# : 83139
FDER Lab# : EB3018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: Water Sample
Date Received: Mar26 1991 Lab Number : 16538

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16538 |
|---|---|---|---|---|---|
| PCB_1232 | mg/L | 0.0001 | 104 | .408 | <0.0001 |
| PCB_1242 | mg/L | 0.0001 | 105 | 2.02 | <0.0001 |
| PCB_1248 | mg/L | 0.0001 | 99.4 | 3.41 | <0.0001 |
| PCB_1254 | mg/L | 0.0001 | 96.7 | 1.90 | <0.0001 |
| PCB_1260 | mg/L | 0.0001 | 103 | 3.15 | <0.0001 |
| Dioctylphthalate | mg/L | 0.001 | 99 | 1.21 | <0.001 |
| 2-chlorophenol | mg/L | 0.001 | 95.7 | 1.45 | <0.001 |
| 2-methyl-4,6-dinitop | mg/L | 0.001 | 103 | 1.95 | <0.001 |
| Phenol | mg/L | 0.001 | 98.6 | 3.79 | <0.001 |
| 2,4,6-trichloropheno | mg/L | 0.001 | 99.7 | 2.82 | <0.001 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984
FAX (407) 260-6***

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 335/292
Public Water System Name Stone Mountain
Public Water System Type (check one):
(X)Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyzi Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable_X_; Unregulated Organic Pesticide_X_;
Unregulated Base Neutral Extractable_X_;Unregulated Acid Extractable__X_;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number 16538
Sample Location (be specific): _____
Sample Type (check all applicable):
( )Check ( )Regular Distribution (X)Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
(X)Raw (X)Well ( )Resample
( )Special_____
Sampler Name, Title Phone:_____
_____

**ANALYSIS INFORMATION**
Extraction Date 3/30/91
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTED Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature: _____

Name Dr Jefferson S Flowers

Title Technical Director

Laboratory Flowers Chemical Laboratories,Inc.

Date 4/15/91

Mail Results to the
Appropriate DER or ACPHU Office:
_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 06/01/8 () Satisfactory () Unsatisfactory

## Volatile Organic Analysis
17-550.310(2)(d)
(PWS029)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 16538 | .00002 | <.000005 | EPA504.1 | .000005 | 4/11/91 |
| 2969 | Para-dichlorobenzene | 16538 | .075 | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2976 | Vinyl chloride | 16538 | 0.001 | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2977 | 1,1-dichloroethene | 16538 | 0.007 | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2980 | 1,2-dichloroethane | 16538 | 0.003 | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2981 | 1,1,1-trichloroethane | 16538 | 0.2 | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2982 | Carbon tetrachloride | 16538 | 0.003 | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2984 | Trichloroethene | 16538 | 0.003 | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2987 | Tetrachloroethene | 16538 | 0.003 | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2990 | Benzene | 16538 | 0.001 | <0.001 | EPA502.2 | 0.001 | 3/30/91 |

Comments:

## Unregulated Organic Purgeable Analysis
17-550.410(1)
(PWS034)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2210 | Chloromethane | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2212 | Dichlorodifluoromethan | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2214 | Bromomethane | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2216 | Chloroethane | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2218 | Trichlorofluoromethane | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2224 | trans-1,3,-dichloroprop | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2228 | cis-1,3-dichloropropene | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2251 | Methyl-tert-butylether | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2380 | cis-1,2-dichloroethene | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2408 | Dibromomethane | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2410 | 1,1-dichloropropene | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2412 | 1,3-dichloropropane | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2414 | 1,2,3-trichloropropane | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2416 | 2,2-dichloropropane | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2931 | 1,2-dibromo-3-chloropr | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2941 | Chloroform | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2942 | Bromoform | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2943 | Bromodichloromethane | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2944 | Dibromochloromethane | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2962 | p-xylene | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2964 | Methylene chloride | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2965 | o-chlorotoluene | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2966 | p-chlorotoluene | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2967 | m-dichlorobenzene | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2968 | o-dichlorobenzene | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2978 | 1,1-dichloroethane | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2979 | trans-1,2-dichloroethyl | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2983 | 1,2-dichloropropane | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2985 | 1,1,2-trichloroethane | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2986 | 1,1,1,2-tetrachloroetha | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2988 | 1,1,2,2-tetrachloroetha | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2989 | Chlorobenzene | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 2991 | Toluene | 16538 | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2992 | Ethylbenzene | 16538 | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2993 | Bromobenzene | 16538 | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2995 | m-xylene | 16538 | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2996 | Styrene | 16538 | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2997 | o-xylene | 16538 | <0.001 | EPA502.2 | 0.001 | 3/30/91 |

Comments:

Unregulated Organic Pesticide Analysis
17-550.410(2)
(PWS035)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2031 | Dalapon | 16538 | | <.000001 | EPA515 | .000001 | 4/10/91 |
| 2036 | Oxamyl (Vydate) | 16538 | | <0.002 | EPA531 | 0.002 | 3/28/91 |
| 2037 | Simazine | 16538 | | <0.007 | EPA505 | 0.007 | 4/10/91 |
| 2040 | Picloram | 16538 | | <0.00007 | EPA515 | 0.00007 | 4/10/91 |
| 2041 | Dinoseb | 16538 | | <0.00001 | EPA515 | 0.00001 | 4/10/91 |
| 2043 | Aldicarb sulfoxide | 16538 | | <0.002 | EPA531 | 0.002 | 3/28/91 |
| 2044 | Aldicarb sulfone | 16538 | | <0.002 | EPA531 | 0.002 | 3/28/91 |
| 2045 | Metolachlor | 16538 | | <0.0005 | EPA505 | 0.0005 | 4/10/91 |
| 2046 | Carbofuran | 16538 | | <0.001 | EPA531 | 0.001 | 3/28/91 |
| 2047 | Aldicarb | 16538 | | <0.002 | EPA531 | 0.002 | 3/28/91 |
| 2050 | Atrazine | 16538 | | <0.002 | EPA505 | 0.002 | 4/10/91 |
| 2051 | Alachlor (Lasso) | 16538 | | <0.0002 | EPA505 | 0.0002 | 4/10/91 |
| 2065 | Heptachlor | 16538 | | <.000005 | EPA508 | .000005 | 4/5/91 |
| 2356 | Aldrin | 16538 | | <0.00007 | EPA508 | 0.00007 | 4/5/91 |
| 2364 | Dieldrin | 16538 | | <0.00001 | EPA508 | 0.00001 | 4/5/91 |
| 2440 | Dicamba | 16538 | | <0.00001 | EPA515 | 0.00001 | 4/10/91 |
| 2959 | Chlordane | 16538 | | <0.00001 | EPA508 | 0.00001 | 4/5/91 |
| 9114 | Pentachlorophenol | 16538 | | <0.005 | EPA515 | 0.005 | 4/10/91 |

Comments:

Unregulated Base Neutral Extractable Analysis
17-550.410(3)
(PWS035)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2042 | Hexachlorocyclopentadie | 16538 | | <0.001 | EPA508 | 0.001 | 4/10/91 |
| 2063 | Dioxin | 16538 | | <0.00001 | EPA613 | 0.00001 | 4/5/91 |
| 2262 | Isophorone | 16538 | | <0.001 | EPA609 | 0.001 | 4/10/91 |
| 2270 | 2,4-dinitrotoluene | 16538 | | <0.001 | EPA609 | 0.001 | 4/10/91 |
| 2282 | Dimethylphthalate | 16538 | | <0.001 | EPA606 | 0.001 | 4/10/91 |
| 2284 | Diethylphthalate | 16538 | | <0.001 | EPA606 | 0.001 | 4/10/91 |
| 2290 | Di-n-butylphthalate | 16538 | | <0.001 | EPA606 | 0.001 | 4/10/91 |
| 2294 | Butyl benzyl phthalate | 16538 | | <0.001 | EPA606 | 0.001 | 4/10/91 |
| 2298 | Bis(2-ethylhexyl)phthal | 16538 | | <0.001 | EPA606 | 0.001 | 4/10/91 |
| 2378 | 1,2,4-trichlorobenzene | 16538 | | <0.001 | EPA612 | 0.001 | 4/10/91 |
| 2388 | PCB 1016 | 16538 | | <0.0001 | EPA505 | 0.0001 | 4/5/91 |
| 2390 | PCB 1221 | 16538 | | <0.0001 | EPA505 | 0.0001 | 4/5/91 |
| 2392 | PCB 1232 | 16538 | | <0.0001 | EPA505 | 0.0001 | 4/5/91 |
| 2394 | PCB 1242 | 16538 | | <0.0001 | EPA505 | 0.0001 | 4/5/91 |
| 2396 | PCB 1248 | 16538 | | <0.0001 | EPA505 | 0.0001 | 4/5/91 |
| 2398 | PCB 1254 | 16538 | | <0.0001 | EPA505 | 0.0001 | 4/5/91 |

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2400 | PCB 1260 | 16538 | | <0.0001 | EPA505 | 0.0001 | 4/5/91 |
| 9089 | Dioctylphthalate | 16538 | | <0.001 | EPA606 | 0.001 | 4/10/91 |

Comments:

Unregulated Acid Extractable Analysis
17-550.410(4)
(PWS037)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 9108 | 2-chlorophenol | 16538 | | <0.001 | EPA604 | 0.001 | 4/10/91 |
| 9112 | 2-methyl-4,6-dinitophe | 16538 | | <0.001 | EPA604 | 0.001 | 4/10/91 |
| 9115 | Phenol | 16538 | | <0.001 | EPA604 | 0.001 | 4/10/91 |
| 9116 | 2,4,6-trichlorophenol | 16538 | | <0.001 | EPA604 | 0.001 | 4/10/91 |

Comments:

SSU SERVICES

**General Offices**
1000 Color Place
Apopka, FL 32703
(407) 880-0058

June 7, 1991

Ms. Marie Carrasquillo
State of Florida
Department of Environmental Regulation
3319 Maguire Boulevard
Suite 232
Orlando, Florida 32803-3767

Re: Lake County - PW
Sunshine Parkway PWS ID #3350691
Piney Woods/Spring Lake PWS ID #3351021
Stone Mountain PWS ID #3351282

Dear Ms. Carrasquillo,

Enclosed please find results for Volatile Organic Analysis second quarter for the above referenced facilities.

Please enter this information into your records.

Sincerely,

SSU Services

Donald B. Corder

Donald B. Corder
Division Supervisor

DBC/jlm

cc: Charles Sweat
Clara Dozier
File

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Jun 4 1991
PO Number: B91039

PO Number SSU
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: COMP. SAMPLE
Date Received: May31 1991 Lab Number : 17042

REPORT OF ANALYSIS

Shane Mounday
and Qtr.

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 17042 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 95.1 | 6.83 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 104 | .994 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 118 | 17.9 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 118 | 17.9 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 104 | .847 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 102 | 1.74 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 86.8 | 12.0 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 107 | 2.31 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 106 | 3.07 | <0.001 |
| Benzene | mg/L | 0.001 | 95.5 | 11.8 | <0.001 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director

Page 1 of 1

Jefferson L. Flowers, PhD
Jefferson S. Flowers, PhD
201 NEWBURYPORT
P.O. BOX 150 597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
[illegible]

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 3351292
Public Water System Name Stone Mountain
Public Water System Type (check one):
(M)Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyzi Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number 17042
Sample Location (be specific): 1-Well (Plant Site)
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
(M)Raw (W)Well ( )Resample
( )Special_____
Sampler Name, Title Phone:_____

**ANALYSIS INFORMATION**
Extraction Date ___/___/____
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTEI Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature:_____

Name **Dr Jefferson S Flowers**

Title **Technical Director**

Laboratory **Flowers Chemical Laboratories,Inc.**

Date 6/4/91

Mail Results to the
Appropriate DER or ACPHU Office:
_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 06/01/9 () Satisfactory () Unsatisfactory

Volatile Organic Analysis
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 17042 | .00002 | <.000005 | EPA504.1 | .000005 | 6/3/91 |
| 2969 | Para-dichlorobenzene | 17042 | .075 | <0.001 | EPA502.2 | 0.001 | 6/3/91 |
| 2976 | Vinyl chloride | 17042 | 0.001 | <0.001 | EPA502.2 | 0.001 | 6/3/91 |
| 2977 | 1,1-dichloroethene | 17042 | 0.007 | <0.001 | EPA502.2 | 0.001 | 6/3/91 |
| 2980 | 1,2-dichloroethane | 17042 | 0.003 | <0.001 | EPA502.2 | 0.001 | 6/3/91 |
| 2981 | 1,1,1-trichloroethane | 17042 | 0.2 | <0.001 | EPA502.2 | 0.001 | 6/3/91 |
| 2982 | Carbon tetrachloride | 17042 | 0.003 | <0.001 | EPA502.2 | 0.001 | 6/3/91 |
| 2984 | Trichloroethene | 17042 | 0.003 | <0.001 | EPA502.2 | 0.001 | 6/3/91 |
| 2987 | Tetrachloroethene | 17042 | 0.003 | <0.001 | EPA502.2 | 0.001 | 6/3/91 |
| 2990 | Benzene | 17042 | 0.001 | <0.001 | EPA502.2 | 0.001 | 6/3/91 |

Comments:

[redacted]

FDER Lab 930010
FDHRS Lab 93139
RADIUM Lab 306
SOCREC Lab 96010

ANALYTICAL & CONSULTING CHEMISTS
CHAIN OF CUSTODY RECORD
DRINKING WATER 17-850

Don Corder

(1) Client: Southern States Util.
(2) Address: 1000 Color Place Apopka, FL 32703
(3) Phone: 880-0055 X148
(4) Public Drinking Water ID #:
(5) Public Water System Name: Sunbird/Plantation/Spring Woods/Spring Hills (2nd Qtr. VOAs)
(6) Project #:
(7) PO#: 391039
(8) Public Water System Type: ( ) Community ( ) Non-Community ( ) Special Non-Community

| | | Preservative | | | | Plastic Containers | | | | | | Glass Containers | | | | | | NOTES: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | HCl | ZnOAc+NaOH | | | 40ml | 125ml | 250ml | 500ml | 1L | Whirl-Pak Bag | 40ml | 250ml | 500ml | 1L | 2L | 4L | |
| | 10 | | | | | | | | | | | X | | | | | | Please composite |

(9) Turn Around Time:
10 Working Days:
5 Working Days:
3 Working Days:
1 Working Day:
Other:

(11) Relinquished: Stephen Carter
(12) Date: 5-28
(13) Time:
(14) Received
(15) Date
(16) Time

SAMPLE INFORMATION; SAMPLE DATE: MONTH____ DATE____ YEAR____
SAMPLE TYPE ( check all applicable): ( ) chlor, ( ) regular distribution
( ) composite, ( ) clearance, ( ) max residence time, ( ) plant tap,
( ) raw, ( ) well, ( ) resample_____, ( ) special_____
SAMPLER'S NAME:_____ TITLE:_____ PHONE:_____
SAMPLER'S SIGNATURE:_____
NOTES:

(17) Parameter Group(s) Analyzed: Turbidity__; Inorganic__; Trihalomethane__; Volatile Organic X;
Organic Chemical__; Secondary Chemical__; Radiological__; Unregulated Organic Purgeable__;
Unregulated Organic Pesticide__; Unregulated Base Neutral Extractable__; Unregulated Acid Extractable__;

| (18) Laboratory Number | | (19) Client Sample Identification |
|---|---|---|
| 17042 | #1 | |
| | #2 | |
| | #3 | |
| | #4 | |
| | #5 | |
| | #6 | |
| | #7 | |
| | #8 | |
| | #9 | |
| | #10 | |

| | | Date | Time |
|---|---|---|---|
| (6) Collectors Signature: | Lynn Shuffler | 5-30-91 | |
| (7) Transporters Signature: | Lynn Shuffler | 5-31-91 | |
| (8) Lab Acceptance By: | [illegible] | 5-31-91 | 12:35pm |

SSU
SERVICES

**General Offices**
1000 Color Place
Apopka, FL 32703
(407) 880-0058

August 29, 1991

Ms. Marie Carrasquillo
State of Florida
Department of Environmental Regulation
3319 Maguire Boulevard
Suite 232
Orlando, Florida 32803-3767

Re: Lake County - PW
Venetian Village PWS ID #3351426
Quail Ridge PWS ID #3354867
Palisades PWS ID #3354877
Stone Mountain PWS ID #3351282
Sunshine Parkway PWS ID #3350691
Piney Woods/Spring Lake PWS ID #3351021

Dear Ms. Carrasquillo,

Enclosed please find results for Volatile Organic Analysis for the above referenced facilities.

Please enter this information into your records.

Sincerely,

SSU Services

Donald B. Corder

Donald B. Corder
Division Supervisor

DBC/jlm
cc: Charles Sweat
Frank Sanderson
Ralph Terrero
Clara Dozier
File

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Aug23 1991
PO Number: B91039
PO Number SSU
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 560/553/565
Date Received: Aug16 1991 Lab Number : 17558

REPORT OF ANALYSIS

Stone Mountain
3rd Qtr. VOC.

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 17558 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 99.9 | 2.87 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 88.8 | 1.44 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 89.8 | 1.56 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 89.8 | 1.56 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 89.9 | .654 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 91.5 | .716 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 91.0 | .626 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 92.2 | .986 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 87.3 | 2.10 | <0.001 |
| Benzene | mg/L | 0.001 | 98.6 | 1.13 | <0.001 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director

Page 1 of 1

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984
FAX (407) 260-6170

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 3351282
Public Water System Name Stone Mountain
Public Water System Type (check one):
(X)Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyzed: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable___;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number 17558
Sample Location (be specific): 1-Well
Sample Type (check all applicable):
( )Check ( )Regular Distribution (X)Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
(X)Raw (X)Well ( )Resample
( )Special_____
Sampler Name, Title Phone: Lance Shelton

**ANALYSIS INFORMATION**
Extraction Date ___/___/___
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTED Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable___;

I do HEREBY CERTIFY that all data submitted are correct.

Signature:

Name Dr Jefferson S Flowers

Title Technical Director

Laboratory Flowers Chemical Laboratories,Inc.

Date 8/23/91

Mail Results to the Appropriate DER or ACPHU Office:

DER /ACPHU Reviewing Offical:

PWSA.01 Sample Interpretation (check one):
Effective 06/01/9 () Satisfactory () Unsatisfactory

Volatile Organic Analysis
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 17558 | .00002 | <.000005 | EPA504.1 | .000005 | 8/22/91 |
| 2969 | Para-dichlorobenzene | 17558 | .075 | <0.001 | EPA502.2 | 0.001 | 8/19/91 |
| 2976 | Vinyl chloride | 17558 | 0.001 | <0.001 | EPA502.2 | 0.001 | 8/19/91 |
| 2977 | 1,1-dichloroethene | 17558 | 0.007 | <0.001 | EPA502.2 | 0.001 | 8/19/91 |
| 2980 | 1,2-dichloroethane | 17558 | 0.003 | <0.001 | EPA502.2 | 0.001 | 8/19/91 |
| 2981 | 1,1,1-trichloroethane | 17558 | 0.2 | <0.001 | EPA502.2 | 0.001 | 8/19/91 |
| 2982 | Carbon tetrachloride | 17558 | 0.003 | <0.001 | EPA502.2 | 0.001 | 8/19/91 |
| 2984 | Trichloroethene | 17558 | 0.003 | <0.001 | EPA502.2 | 0.001 | 8/19/91 |
| 2987 | Tetrachloroethene | 17558 | 0.003 | <0.001 | EPA502.2 | 0.001 | 8/19/91 |
| 2990 | Benzene | 17558 | 0.001 | <0.001 | EPA502.2 | 0.001 | 8/19/91 |

Comments:

FORM Labs 00000
FORM1 Labs 00000
INCIDENT Labs 000
SCORED Labs 0000

ANALYTICAL & CONTROLLING CRITERIA
CHAIN OF CUSTODY RECORD
DRINKING WATER 17-000

(1) Name: Don Corder
Affiliation: SSU
(2) Address: 1000 COLOR PLACE APOPKA, FL 32703
(3) Phone: 880-0058
(4) Public Drinking Water ID #:
(5) Public Water System Name:
(6) Project #: B91039
(7) Public Water System Type: [X] Community [ ] Non-Community [ ] Special Non-Community

| | Preservative | | Plastic Containers | | | | | Glass Containers | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | HNO3 | ZnAc+NaOH | 60ml | 125ml | 250ml | 500ml | 1L | Other | 40ml | 250ml | 500ml | 1L | 4L |
| 15 | | | | | | | | | X | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

(8) Relinquished: (9) Date: (9) Time:
(10) Rec'd Received: (10) Date: (10) Time:

(11) Turn Around Time:
10 Working Days:
5 Working Days:
3 Working Days:
1 Working Day:
Other:

SAMPLE INFORMATION: SAMPLE DATE: MONTH ____ DATE ____ YEAR ____
SAMPLE TYPE ( check all applicable): ( ) check, ( ) regular distribution ( ) composite, ( ) clearance, ( ) max residence time, ( ) plant tap, ( ) raw, ( ) well, ( ) resample ____, ( ) special ____
SAMPLER'S NAME: ____ TITLE: ____ PHONE: ____
SAMPLER'S SIGNATURE: ____
FOR:
(WELL) #560 Sunshine Pkway - #3350691
(WELL) #553 Piney Woods / Spring Lk. Mann - #335021 > Please composite
(WELL) Store Mountain - #3351282
#565

Parameter Group(s) Analyzed: Turbidity ___ | Inorganic ___ | Bacteriological ___ | Volatile Organic X
Organic Chemical ___ | Secondary Chemical ___ | Radiological ___ | Unregulated Organic Composite ___
Unregulated Organic Pesticide ___ | Unregulated Base (Neutral Extractable ___ | Unregulated Acid Extractable ___

| Laboratory Number | (15) Client Sample Identification |
|---|---|
| 17558 | #1 |
| | #2 |
| | #3 |
| | #4 |
| | #5 |
| | #6 |
| | #7 |
| | #8 |
| | #9 |
| | #10 |

| | | Date | Time |
|---|---|---|---|
| (12) Collectors Signature: | Lance Shaffer | 8-16-91 | |
| (13) Receivers Signature: | Lance Shaffer | 8-16-91 | 12:20 |
| Lab Acceptance Yes | | 8/16/91 | |

RC

SSU
SERVICES

**General Offices**
1000 Color Place
Apopka, FL 32703
(407) 880-0058

December 18, 1991

Ms. Marie Carrasquillo
State of Florida
Department of Environmental Regulation
3319 Maguire Boulevard
Suite 232
Orlando, Florida 32803-3767

**Re: Lake County Water Treatment Plants**

Dear Ms. Carrasquillo:

Enclosed please find results for Fourth Quarter Volatile Organic Analysis for the following systems:

| | |
|---|---|
| Pineywoods/Spring Lake | PWS ID # 3351021 |
| Sunshine Parkway | PWS ID # 3350691 |
| Stone Mountain | PWS ID # 3351282 |
| Quail Ridge | PWS ID # 3354867 |
| Venetian Village | PWS ID # 3351426 |
| Palisades | PWS ID # 3354877 |

Please enter this information into your records.

Sincerely,

Donald B. Corder

Donald B. Corder
Area Supervisor

\csd

cc: Charles Sweat
Frank Sanderson
Jim Murray
Mel Fisher

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU
1000 Color Place
Apopka, FL 32703

Date Reported: Dec 5 1991
PO Number: B91039
PO Number SSU
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: COMP. SAMPLE
Date Received: Nov26 1991
Lab Number : 18375

REPORT OF ANALYSIS

Stone Mountain
18375

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 98.9 | 1.94 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 88.4 | 4.88 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 96.0 | 3.17 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 96.0 | 3.17 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 95.8 | 6.51 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 88.4 | 3.79 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 90.4 | 2.46 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 89.3 | 9.95 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 86.0 | 5.13 | <0.001 |
| Benzene | mg/L | 0.001 | 94.1 | 1.78 | <0.001 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5084
FAX (407) 260-6110

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 3351282
Public Water System Name: Stone Mountain
Public Water System Type (check one):
(X)Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyzi Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number 18375
Sample Location (be specific): Plant - 1-well
Sample Type (check all applicable):
( )Check ( )Regular Distribution (X)Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
(X)Raw (X)Well ( )Resample
( )Special
Sampler Name, Title Phone: Brian Heath - Lead Operator - 880-0058

**ANALYSIS INFORMATION**
Extraction Date __/__/____
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTEI Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature: _____

Name **Dr Jefferson S Flowers**

Title **Technical Director**

Laboratory **Flowers Chemical Laboratories,Inc.**

Date 12/4/91

Mail Results to the
Appropriate DER or ACPHU Office:

_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.C1 Sample Interpretation (check one):
Effective 06/01/8 () Satisfactory () Unsatisfactory

Volatile Organic Analysis
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 18375 | .00002 | <.000005 | EPA504.1 | .000005 | 12/4/91 |
| 2969 | Para-dichlorobenzene | 18375 | .075 | <0.001 | EPA502.2 | 0.001 | 11/27/91 |
| 2976 | Vinyl chloride | 18375 | 0.001 | <0.001 | EPA502.2 | 0.001 | 11/27/91 |
| 2977 | 1,1-dichloroethene | 18375 | 0.007 | <0.001 | EPA502.2 | 0.001 | 11/27/91 |
| 2980 | 1,2-dichloroethane | 18375 | 0.003 | <0.001 | EPA502.2 | 0.001 | 11/27/91 |
| 2981 | 1,1,1-trichloroethane | 18375 | 0.2 | <0.001 | EPA502.2 | 0.001 | 11/27/91 |
| 2982 | Carbon tetrachloride | 18375 | 0.003 | <0.001 | EPA502.2 | 0.001 | 11/27/91 |
| 2984 | Trichloroethene | 18375 | 0.003 | <0.001 | EPA502.2 | 0.001 | 11/27/91 |
| 2987 | Tetrachloroethene | 18375 | 0.003 | <0.001 | EPA502.2 | 0.001 | 11/27/91 |
| 2990 | Benzene | 18375 | 0.001 | <0.001 | EPA502.2 | 0.001 | 11/27/91 |

Comments:

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

FDER Lab# E83018
FDHRS Lab# 87139
NCDENR Lab# 236
SCDHEC Lab# 99018

ANALYTICAL & CONSULTING CHEMISTS
CHAIN OF CUSTODY RECORD
DRINKING WATER 17-550

(1)Client: Southern States
(2)Address: 100 Cotton Rd. Nirmka 32703
(3)Phone: 880-0055 Ext 121

(4)Public Drinking Water ID #
(5)Public Water System Name:
(6)Project #
(7)PO# 34-C39
(8)Public Water System Type: ( ) Community ( ) Non-Community ( ) Special Non-Community

| | Preservative | | | Plastic Containers | | | | | | Glass Containers | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | HNO3 | ZnOAC/NaOH | | 60ml | 125ml | 250ml | 500ml | 1L | Whirl-Pac Bag | 40ml | 250ml | 500ml | 1L | 2L | 4L |
| (16) | | | | | | | | | | | | | | | |

NOTES:
(12)Turn Around Time:
10 Working Days:
5 Working Days :
3 Working Days :
1 Working Day :
Other :

2- Sunshine Parkway
2- Piney Woods/Spring Hl. Manor
- Stone Mountain (Coarse comp)

(17)Kit Relinquished: (17)Date (17)Time
(9)Kit Received (9)Date (9)Time

(10)Parameter Group(s) Analysed: Turbidity__; Inorganic__; Trihalomethane__; Volatile Organic X; Organic Chemical__; Secondary Chemical__; Radiological__; Unregulated Organic Purgeable__; Unregulated Organic Pesticide : Unregulated Base Neutral Extractable : Unregulated Acid Extractable :

| (18)Laboratory Number | | (11)Client Sample Identification |
|---|---|---|
| | #1 | 553 WT1 - Piney Woods |
| | #2 | 553 WT2 - Piney Woods |
| 18375 | #3 | 554 WT1 - Sunshine Pk. |
| | #4 | 554 WT2 - Sunshine Pk. |
| | #5 | 555 WT1 - Stone Mountain |
| | #6 | |
| | #7 | |
| | #8 | |
| | #9 | |
| | #10 | |

| | | Date | Time |
|---|---|---|---|
| (13)Collectors Signature: | Laurie Heath Tech ID # | 11/26/91 | 10:00am |
| (14)Transporters Signature: | Tech ID # | 11-26-91 | |
| (15)Lab Acceptance By: | M. McCuen | 11/26/91 | 2:30pm |

Over for numbered instructions.

Florida Department of Health and Rehabilitative Services
Office of Laboratory Services
P.O. Box 210
Jacksonville, Florida 32231

RECEIVED

# DRINKING WATER BACTERIOLOGICAL ANALYSIS

SYSTEM NAME: Stone Mountain #965 SYSTEM NO.: 3251282 SYSTEM PHONE #: 904-787-4504

ADDRESS: 6730 Lakeview Rd DER DISTRICT: Central

COLLECTOR: Dennis W. Mone COLLECTOR PHONE #: 904-326-4420

SAMPLE SITE (Locality or Subdivision): Hilltop

DATE AND TIME COLLECTED: 12/10/91 1:15 pm

TYPE OF SUPPLY (Circle one): (Community water system) Noncommunity water system Nontransient - noncommunity water system
Private well Swimming pool Bottled water Other (Specify)

TYPE OF SAMPLE (Circle one): (Compliance) Repeat Replacement Main clearance Well survey Other (Specify)
(Check one) [ ] Distribution [ ] Raw [ ] Turbid

REMARKS:

12/13

| TO BE COMPLETED BY COLLECTOR OF SAMPLE | | | | TO BE COMPLETED BY LAB | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| COLL. NO. | SAMPLE POINT (Specific Address) | RES* | | ANALYSIS METHOD: MF / MTF | | | MMO-MUG | PA |
| | | | | SAMPLE NUMBER | NON COLIFORM | TOTAL | CONFIRM TOTAL | CONFIRM FECAL |
| W | Well | 0 | | 30 | | A | | |
| T | Tank | 10 | 9 | 30 | | A | | |
| R-1 | Lot 24 Lakeview | 10 | | 30 | | A | | |
| R-2 | Lot 13 Lakeview | 8 | | 30 | M | P(38) | (P) | (P) |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

* Results in this column are preliminary fecal coliform confirmation on community and noncommunity water systems and total coliform confirmation on all types of water systems will follow in 24-48 hours.

P - Coliforms are present C - Confluent growth TA - Turbid, Absence of gas or acid
A - Coliforms are absent TNTC - Too numerous to count

INTERPRETATIONS-REMARKS BY PROGRAM REVIEWER

HRS Form 1858, Jan 91 (Obsolete previous editions which are burned) (Stock Number: 1710-000-1858-4)

NAME AND MAILING ADDRESS OF PERSON/FIRM TO RECEIVE REPORT

SSU Sewer
1000 Color Place
Apopka, Florida 32703

Lot 13

( )
(✓) SATISFACTORY
( ) INCOMPLETE COLLECTION INFORMATION
( ) REPEAT SAMPLES
( ) REPLACEMENT SAMPLES

REVIEWING OFFICIAL: JH

TITLE:

# PLANT TECHNICIANS LABORATORY

P.O. Box 447 Fruitland Pk, FL 34731

LAB: 904/787-6689
ADMIN: 904/787-2944

No. 8736

Certified Plant Operators • Consultation • Water and Wastewater Testing

| DATE COLLECTED | TIME | COUNTY | COLLECTOR | TIME REC'D | DATE TESTED |
|---|---|---|---|---|---|
| 12/18/91 | 4:30PM | Lake | Dennis W. Mork | 9:40AM | 12/19/91 |

| TYPE OF SUPPLY | CITY-TOWN | S/D | TRLR. PK | R.V | SCHOOL | BOTTLED | MOTEL | REST | DAIRY | POOL | HOME | OTHER |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | X | | | | | | | | | | |

NAME OF S/D OR LOCALITY BEING SAMPLED: Stone Mountain #565

NAME OR LOCATION OF WATER PLANT: Yalaha

| TYPE OF SAMPLE | ROUTINE | RE-CHECK | MAIN CLEARANCE | WELL SURVEY | OTHER |
|---|---|---|---|---|---|
| | | X | | | 12/91 compliance failure |

LAB: PLANT TECHNICIANS, INC. HRS # 83289

SYSTEM I.D. No. 3351282

NAME AND MAILING ADDRESS OF PERSON/FIRM TO RECEIVE REPORT

S.S.U. Services
1000 Color Place
Apopka, FL 32703

LAB REMARKS & SIGNATURE

Samples collected by client.

J.C. BRANHAM PRES./DIRECTOR

| LAB. NO. | COLL. NO. | SAMPLING POINT | APPEARANCE | CL RES'D | PH | LB. 48 | SO4 48 | MPN 100 MLS | MF 100 MLS | NON-COLIFORM |
|---|---|---|---|---|---|---|---|---|---|---|
| 91-12395 | R-1 | Lot #22 | CL | 1.0 | | | | | A | A |
| 396 | R-2 | Lot #13 | CL | 0.8 | | | | | A | A |
| 397 | R-3 | Lot #15 | CL | 0.8 | | | | | A | A |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

WATER ANALYSIS PERFORMED TOTAL COLIFORM

INTERPRETATIONS-RECOMMENDATIONS

D.E.R. USE ONLY
P-Coliforms are present
A-Coliforms are absent
C-Confluent growth
TNTC-Too numerous to count
TA-Turbid, Absence of gas or acid

AT TIME SAMPLE TAKEN:
☒ SATISFACTORY
☐ UNSATISFACTORY
☐

☐ RE-SUBMIT

PS87C622

BY NAME _____ TITLE _____

# Sugar Mill - 1801

**Volusia County (SSU)**

**Water**

**- 1992 FPSC Filing -**

# Sugar Mill Country Club

## Chemical Analyses

**The most recent chemical analyses for the water system conducted by a certified laboratory covering the inorganic, organic, turbidity, microbiological, radionuclide, secondary and unregulated contaminants.**

| Chemical Analysis | Date Taken |
|---|---|
| Inorganic | 2/89 |
| Organic | 2/89 |
| Volatile Organic Chemicals | 2/91 |
| | 6/91 |
| | 8/91 |
| | 11/91 |
| Turbidity | 2/89 |
| Microbiological | 12/91 |
| Radionuclide | 2/89 |
| Secondary Contaminants | 2/89 |
| Unregulated Contaminants | 2/91 |

M.O.R.

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Mar 5 1991
PO Number: 891038
PO Number
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 4-WELLS
Date Received: Feb12 1991 Lab Number : 16283 (Sugar Mill CC)
1st Qtr. VOC Monitoring

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16283 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 88.6 | 3.60 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 98.8 | 7.47 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 102 | 2.43 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 102 | 2.43 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 102 | 4.28 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 96.9 | .377 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 100 | .078 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 99.3 | 3.18 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 106 | 3.22 | <0.001 |
| Benzene | mg/L | 0.001 | 88.3 | 1.43 | <0.001 |
| Chloromethane | mg/L | 0.001 | 90.8 | 9.54 | <0.001 |
| Dichlorodifluorometh | mg/L | 0.001 | 94.8 | 3.74 | <0.001 |
| Bromomethane | mg/L | 0.001 | 96.6 | 9.54 | <0.001 |
| Chloroethane | mg/L | 0.001 | 93.3 | 1.25 | <0.001 |
| Trichlorofluorometha | mg/L | 0.001 | 94.8 | 3.74 | <0.001 |
| trans-1,3,-dichlorob | mg/L | 0.001 | 92.0 | 3.30 | <0.001 |
| cis-1,3-dichloroprob | mg/L | 0.001 | 91.5 | 1.09 | <0.001 |
| Methyl-tert-butyleth | mg/L | 0.001 | 98.1 | 19.5 | <0.001 |
| cis-1,2-dichloroethe | mg/L | 0.001 | 91.5 | 1.09 | <0.001 |
| Dibromomethane | mg/L | 0.001 | 96.6 | 9.54 | <0.001 |
| 1,1-dichloropropene | mg/L | 0.001 | 91 | 1.49 | <0.001 |
| 1,3-dichloropropane | mg/L | 0.001 | 92.0 | 3.30 | <0.001 |
| 1,2,3-trichloropropa | mg/L | 0.001 | 93.5 | 3.45 | <0.001 |
| 2,2-dichloropropane | mg/L | 0.001 | 93.3 | 1.25 | <0.001 |
| 1,2-dibromo-3-chloro | mg/L | 0.001 | 93.5 | 3.45 | <0.001 |
| Chloroform | mg/L | 0.001 | 92.3 | 5.15 | <0.001 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director

Jefferson L. Rowers, PhD
Jefferson S. Rowers, PhD
481 NEWBURYPORT
P O BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Mar 5 1991
PO Number: 891038

PO Number
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 4-WELLS
Date Received: Feb12 1991 Lab Number : 16283

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16283 |
|---|---|---|---|---|---|
| Bromoform | mg/L | 0.001 | 93.8 | .412 | <0.001 |
| Bromodichloromethane | mg/L | 0.001 | 93.2 | 3.96 | <0.001 |
| Dibromochloromethane | mg/L | 0.001 | 93.0 | 2.27 | <0.001 |
| p-xylene | mg/L | 0.001 | 87.9 | 1.03 | <0.001 |
| Methylene chloride | mg/L | 0.001 | 96.6 | 9.54 | <0.001 |
| o-chlorotoluene | mg/L | 0.001 | 87.6 | 1.05 | <0.001 |
| p-chlorotoluene | mg/L | 0.001 | 87.4 | 1.07 | <0.001 |
| m-dichlorobenzene | mg/L | 0.001 | 88.7 | 1.13 | <0.001 |
| o-dichlorobenzene | mg/L | 0.001 | 88.7 | .737 | <0.001 |
| 1,1-dichloroethane | mg/L | 0.001 | 93.8 | 2.24 | <0.001 |
| trans-1,2-dichloroet | mg/L | 0.001 | 106 | 3.72 | <0.001 |
| 1,2-dichloropropane | mg/L | 0.001 | 91.3 | 1.74 | <0.001 |
| 1,1,2-trichloroethan | mg/L | 0.001 | 93.0 | .697 | <0.001 |
| 1,1,1,2-tetrachloroe | mg/L | 0.001 | 106 | 11.4 | <0.001 |
| 1,1,2,2-tetrachloroe | mg/L | 0.001 | 95.3 | 1.45 | <0.001 |
| Chlorobenzene | mg/L | 0.001 | 92.2 | .957 | <0.001 |
| Toluene | mg/L | 0.001 | 87.4 | 1.07 | <0.001 |
| Ethylbenzene | mg/L | 0.001 | 86.5 | 2.92 | <0.001 |
| Bromobenzene | mg/L | 0.001 | 92.2 | .957 | <0.001 |
| m-xylene | mg/L | 0.001 | 87.9 | 1.03 | <0.001 |
| Styrene | mg/L | 0.001 | 87.4 | 1.07 | <0.001 |
| o-xylene | mg/L | 0.001 | 87.9 | 1.03 | <0.001 |
| Dalapon | mg/L | 0.000001 | 104 | 2.20 | <0.000001 |
| Oxamyl (Vydate) | mg/L | 0.002 | 97.6 | 16.8 | <0.002 |
| Simazine | mg/L | 0.007 | 107 | 3.83 | <0.007 |
| Picloram | mg/L | 0.00007 | 106 | 3.61 | <0.00007 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5986
FAX (407) 260-[illegible]

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Mar 5 1991
PO Number: B91038

PO Number
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 4-WELLS
Date Received: Feb12 1991 Lab Number : 16283

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16283 |
|---|---|---|---|---|---|
| Dinoseb | mg/L | 0.00001 | 99.4 | 0.38 | <0.00001 |
| Aldicarb sulfoxide | mg/L | 0.002 | 112 | 7.60 | <0.002 |
| Aldicarb sulfone | mg/L | 0.002 | 99.0 | 15.1 | <0.002 |
| Metolachlor | mg/L | 0.0005 | 96.4 | 2.15 | <0.0005 |
| Carbofuran | mg/L | 0.001 | 112 | 6.04 | <0.001 |
| Aldicarb | mg/L | 0.002 | 97.0 | 6.71 | <0.002 |
| Atrazine | mg/L | 0.002 | 103 | 1.90 | <0.002 |
| Alachlor (Lasso) | mg/L | 0.0002 | 98 | 1.01 | <0.0002 |
| Heptachlor | mg/L | 0.000005 | 93.3 | 4.07 | <0.000005 |
| Aldrin | mg/L | 0.00007 | 98.5 | 0.90 | <0.00007 |
| Dieldrin | mg/L | 0.00001 | 92.5 | 4.56 | <0.00001 |
| Dicamba | mg/L | 0.00001 | 91.3 | 4.95 | <0.00001 |
| Chlordane | mg/L | 0.00001 | 97.5 | 1.48 | <0.00001 |
| Pentachlorophenol | mg/L | 0.005 | 104 | 3.26 | <0.005 |
| Hexachlorocyclopenta | mg/L | 0.001 | 99.6 | 0.23 | <0.001 |
| Dioxin | mg/L | 0.00001 | 96.1 | 2.64 | <0.00001 |
| Isophorone | mg/L | 0.001 | 101 | 6.07 | <0.001 |
| 2,4-dinitrotoluene | mg/L | 0.001 | 99.0 | 1.09 | <0.001 |
| Dimethylphthalate | mg/L | 0.001 | 97.8 | 4.17 | <0.001 |
| Diethylphthalate | mg/L | 0.001 | 102 | 7.82 | <0.001 |
| Di-n-butylphthalate | mg/L | 0.001 | 105 | 3.65 | <0.001 |
| Butyl benzyl phthala | mg/L | 0.001 | 107 | 5.98 | <0.001 |
| Bis(2-ethylhexyl)pht | mg/L | 0.001 | 104 | 1.96 | <0.001 |
| 1,2,4-trichlorobenze | mg/L | 0.001 | 99.5 | 1.48 | <0.001 |
| PCB-1016 | mg/L | 0.0001 | 96.4 | 2.17 | <0.0001 |
| PCB-1221 | mg/L | 0.0001 | 96.0 | 2.30 | <0.0001 |

Data Release Authorization

Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Mar 5 1991
PO Number: B91038

PO Number
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: J-WELLS
Date Received: Feb12 1991 Lab Number : 16283

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16283 |
|---|---|---|---|---|---|
| PCB-1232 | mg/L | 0.0001 | 96.0 | 2.38 | <0.0001 |
| PCB-1242 | mg/L | 0.0001 | 94.6 | 3.27 | <0.0001 |
| PCB-1248 | mg/L | 0.0001 | 97.8 | 1.70 | <0.0001 |
| PCB-1254 | mg/L | 0.0001 | 98.3 | 1.07 | <0.0001 |
| PCB-1260 | mg/L | 0.0001 | 97.4 | 2.32 | <0.0001 |
| Dioctylphthalate | mg/L | 0.001 | 105 | 1.13 | <0.001 |
| 2-chlorophenol | mg/L | 0.001 | 95.4 | 8.00 | <0.001 |
| 2-methyl-4,6-dinitop | mg/L | 0.001 | 100 | 0.57 | <0.001 |
| Phenol | mg/L | 0.001 | 105 | 4.56 | <0.001 |
| 2,4,6-trichlorophenc | mg/L | 0.001 | 92.0 | 7.99 | <0.001 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS 407 339-5984
FAX 407 260-6122

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 3641276
Public Water System Name: Sugar Mill C
Public Water System Type (check one):
(X)Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyzed: Turbidity___;Inorganic___; Trihalomethane _X_;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable_X_; Unregulated Organic Pesticide_X_;
Unregulated Base Neutral Extractable_X_;Unregulated Acid Extractable__X_;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number 16283
Sample Location (be specific): Plant Site
Sample Type (check all applicable):
( )Check ( )Regular Distribution (X)Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
(X)Raw (X)Wells ( )Resample
( )Special_____
Sampler Name, Title Phone:_____
_____

**ANALYSIS INFORMATION**
Extraction Date 2/23/91
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTED: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic✓; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable✓; Unregulated Organic Pesticide✓;
Unregulated Base Neutral Extractable✓;Unregulated Acid Extractable✓;

I do HEREBY CERTIFY that all data submitted are correct.

Signature:_____

Name Dr Jefferson S Flowers

Title Technical Director

Laboratory Flowers Chemical Laboratories,Inc.

Date 3/5/91

Mail Results to the Appropriate DER or ACPHU Office:
_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 06/01/8 () Satisfactory () Unsatisfactory

## Volatile Organic Analysis
17-550.310(2)(d)
(PWS029)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 16283 | .00002 | <0.000005 | EPA504.1 | .000005 | 2/27/91 |
| 2969 | Para-dichlorobenzene | 16283 | .075 | <0.001 | EPA502.2 | 0.001 | 2/23/91 |
| 2976 | Vinyl chloride | 16283 | 0.001 | <0.001 | EPA502.2 | 0.001 | 2/23/91 |
| 2977 | 1,1-dichloroethene | 16283 | 0.007 | <0.001 | EPA502.2 | 0.001 | 2/23/91 |
| 2980 | 1,2-dichloroethane | 16283 | 0.003 | <0.001 | EPA502.2 | 0.001 | 2/23/91 |
| 2981 | 1,1,1-trichloroethane | 16283 | 0.2 | <0.001 | EPA502.2 | 0.001 | 2/23/91 |
| 2982 | Carbon tetrachloride | 16283 | 0.003 | <0.001 | EPA502.2 | 0.001 | 2/23/91 |
| 2984 | Trichloroethene | 16283 | 0.003 | <0.001 | EPA502.2 | 0.001 | 2/23/91 |
| 2987 | Tetrachloroethene | 16283 | 0.003 | <0.001 | EPA502.2 | 0.001 | 2/23/91 |
| 2990 | Benzene | 16283 | 0.001 | <0.001 | EPA502.2 | 0.001 | 2/23/91 |

Comments:

## Unregulated Organic Purgeable Analysis
17-550.410(1)
(PWS034)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2210 | Chloromethane | 16283 | | <0.001 | EPA502.2 | 0.001 | 2/23/91 |
| 2212 | Dichlorodifluoromethan | 16283 | | <0.001 | EPA502.2 | 0.001 | 2/23/91 |
| 2214 | Bromomethane | 16283 | | <0.001 | EPA502.2 | 0.001 | 2/23/91 |
| 2216 | Chloroethane | 16283 | | <0.001 | EPA502.2 | 0.001 | 2/23/91 |
| 2218 | Trichlorofluoromethane | 16283 | | <0.001 | EPA502.2 | 0.001 | 2/23/91 |
| 2224 | trans-1,3,-dichloropro | 16283 | | <0.001 | EPA502.2 | 0.001 | 2/23/91 |
| 2228 | cis-1,3-dichloropropene | 16283 | | <0.001 | EPA502.2 | 0.001 | 2/23/91 |
| 2251 | Methyl-tert-butylether | 16283 | | <0.001 | EPA502.2 | 0.001 | 2/23/91 |
| 2380 | cis-1,2-dichloroethene | 16283 | | <0.001 | EPA502.2 | 0.001 | 2/23/91 |
| 2408 | Dibromomethane | 16283 | | <0.001 | EPA502.2 | 0.001 | 2/23/91 |
| 2410 | 1,1-dichloropropene | 16283 | | <0.001 | EPA502.2 | 0.001 | 2/23/91 |
| 2412 | 1,3-dichloropropane | 16283 | | <0.001 | EPA502.2 | 0.001 | 2/23/91 |
| 2414 | 1,2,3-trichloropropane | 16283 | | <0.001 | EPA502.2 | 0.001 | 2/23/91 |
| 2416 | 2,2-dichloropropane | 16283 | | <0.001 | EPA502.2 | 0.001 | 2/23/91 |
| 2931 | 1,2-dibromo-3-chloropr | 16283 | | <0.001 | EPA502.2 | 0.001 | 2/23/91 |
| 2941 | Chloroform | 16283 | | <0.001 | EPA502.2 | 0.001 | 2/23/91 |
| 2942 | Bromoform | 16283 | | <0.001 | EPA502.2 | 0.001 | 2/23/91 |
| 2943 | Bromodichloromethane | 16283 | | <0.001 | EPA502.2 | 0.001 | 2/23/91 |
| 2944 | Dibromochloromethane | 16283 | | <0.001 | EPA502.2 | 0.001 | 2/23/91 |
| 2962 | p-xylene | 16283 | | <0.001 | EPA502.2 | 0.001 | 2/23/91 |
| 2964 | Methylene chloride | 16283 | | <0.001 | EPA502.2 | 0.001 | 2/23/91 |
| 2965 | o-chlorotoluene | 16283 | | <0.001 | EPA502.2 | 0.001 | 2/23/91 |
| 2966 | p-chlorotoluene | 16283 | | <0.001 | EPA502.2 | 0.001 | 2/23/91 |
| 2967 | m-dichlorobenzene | 16283 | | <0.001 | EPA502.2 | 0.001 | 2/23/91 |
| 2968 | o-dichlorobenzene | 16283 | | <0.001 | EPA502.2 | 0.001 | 2/23/91 |
| 2978 | 1,1-dichloroethane | 16283 | | <0.001 | EPA502.2 | 0.001 | 2/23/91 |
| 2979 | trans-1,2-dichloroethyl | 16283 | | <0.001 | EPA502.2 | 0.001 | 2/23/91 |
| 2983 | 1,2-dichloropropane | 16283 | | <0.001 | EPA502.2 | 0.001 | 2/23/91 |
| 2985 | 1,1,2-trichloroethane | 16283 | | <0.001 | EPA502.2 | 0.001 | 2/23/91 |
| 2986 | 1,1,1,2-tetrachloroetha | 16283 | | <0.001 | EPA502.2 | 0.001 | 2/23/91 |
| 2988 | 1,1,2,2-tetrachloroetha | 16283 | | <0.001 | EPA502.2 | 0.001 | 2/23/91 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 2989 | Chlorobenzene | 16283 | <0.001 | EPA502.2 | 0.001 | 2/23/91 |
| 2991 | Toluene | 16283 | <0.001 | EPA502.2 | 0.001 | 2/23/91 |
| 2992 | Ethylbenzene | 16283 | <0.001 | EPA502.2 | 0.001 | 2/23/91 |
| 2993 | Bromobenzene | 16283 | <0.001 | EPA502.2 | 0.001 | 2/23/91 |
| 2995 | m-xylene | 16283 | <0.001 | EPA502.2 | 0.001 | 2/23/91 |
| 2996 | Styrene | 16283 | <0.001 | EPA502.2 | 0.001 | 2/23/91 |
| 2997 | o-xylene | 16283 | <0.001 | EPA502.2 | 0.001 | 2/23/91 |

Comments:

Unregulated Organic Pesticide Analysis
17-550.410(2)
(PWS035)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2031 | Dalapon | 16283 | | <.000001 | EPA515 | .000001 | 3/1/91 |
| 2036 | Oxamyl (Vydate) | 16283 | | <0.002 | EPA531 | 0.002 | 2/26/91 |
| 2037 | Simazine | 16283 | | <0.007 | EPA505 | 0.007 | 3/1/91 |
| 2040 | Picloram | 16283 | | <0.00007 | EPA515 | 0.00007 | 3/1/91 |
| 2041 | Dinoseb | 16283 | | <0.00001 | EPA515 | 0.00001 | 3/1/91 |
| 2043 | Aldicarb sulfoxide | 16283 | | <0.002 | EPA531 | 0.002 | 2/26/91 |
| 2044 | Aldicarb sulfone | 16283 | | <0.002 | EPA531 | 0.002 | 2/26/91 |
| 2045 | Metolachlor | 16283 | | <0.0005 | EPA505 | 0.0005 | 3/1/91 |
| 2046 | Carbofuran | 16283 | | <0.001 | EPA531 | 0.001 | 2/26/91 |
| 2047 | Aldicarb | 16283 | | <0.002 | EPA531 | 0.002 | 2/26/91 |
| 2050 | Atrazine | 16283 | | <0.002 | EPA505 | 0.002 | 3/1/91 |
| 2051 | Alachlor (Lasso) | 16283 | | <0.0002 | EPA505 | 0.0002 | 3/1/91 |
| 2065 | Heptachlor | 16283 | | <.000005 | EPA508 | .000005 | 3/1/91 |
| 2356 | Aldrin | 16283 | | <0.00007 | EPA508 | 0.00007 | 3/1/91 |
| 2364 | Dieldrin | 16283 | | <0.00001 | EPA508 | 0.00001 | 3/1/91 |
| 2440 | Dicamba | 16283 | | <0.00001 | EPA515 | 0.00001 | 3/1/91 |
| 2959 | Chlordane | 16283 | | <0.00001 | EPA508 | 0.00001 | 3/1/91 |
| 9114 | Pentachlorophenol | 16283 | | <0.005 | EPA515 | 0.005 | 3/1/91 |

Comments:

Unregulated Base Neutral Extractable Analysis
17-550.410(3)
(PWS036)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2042 | Hexachlorocyclopentadie | 16283 | | <0.001 | EPA508 | 0.001 | 3/1/91 |
| 2063 | Dioxin | 16283 | | <0.00001 | EPA613 | 0.00001 | 3/1/91 |
| 2262 | Isophorone | 16283 | | <0.001 | EPA609 | 0.001 | 3/1/91 |
| 2270 | 2,4-dinitrotoluene | 16283 | | <0.001 | EPA609 | 0.001 | 3/1/91 |
| 2282 | Dimethylphthalate | 16283 | | <0.001 | EPA606 | 0.001 | 3/1/91 |
| 2284 | Diethylphthalate | 16283 | | <0.001 | EPA606 | 0.001 | 3/1/91 |
| 2290 | Di-n-butylphthalate | 16283 | | <0.001 | EPA606 | 0.001 | 3/1/91 |
| 2294 | Butyl benzyl phthalate | 16283 | | <0.001 | EPA606 | 0.001 | 3/1/91 |
| 2298 | Bis(2-ethylhexyl)phthal | 16283 | | <0.001 | EPA606 | 0.001 | 3/1/91 |
| 2378 | 1,2,4-trichlorobenzene | 16283 | | <0.001 | EPA612 | 0.001 | 3/1/91 |
| 2388 | PCB-1016 | 16283 | | <0.0001 | EPA505 | 0.0001 | 3/1/91 |
| 2390 | PCB-1221 | 16283 | | <0.0001 | EPA505 | 0.0001 | 3/1/91 |
| 2392 | PCB-1232 | 16283 | | <0.0001 | EPA505 | 0.0001 | 3/1/91 |
| 2394 | PCB-1242 | 16283 | | <0.0001 | EPA505 | 0.0001 | 3/1/91 |
| 2396 | PCB-1248 | 16283 | | <0.0001 | EPA505 | 0.0001 | 3/1/91 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 2398 | PCB-1254 | 16283 | <0.0001 | EPA505 | 0.0001 | 3/1/91 |
| 2400 | PCB-1260 | 16283 | <0.0001 | EPA505 | 0.0001 | 3/1/91 |
| 9089 | Dioctylphthalate | 16283 | <0.001 | EPA606 | 0.001 | 3/1/91 |

Comments:

Unregulated Acid Extractable Analysis
17-550.410(4)
(PWS037)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 9108 | 2-chlorophenol | 16283 | | <0.001 | EPA604 | 0.001 | 3/1/91 |
| 9112 | 2-methyl-4,6-dinitophe | 16283 | | <0.001 | EPA604 | 0.001 | 3/1/91 |
| 9115 | Phenol | 16283 | | <0.001 | EPA604 | 0.001 | 3/1/91 |
| 9116 | 2,4,6-trichlorophenol | 16283 | | <0.001 | EPA604 | 0.001 | 3/1/91 |

Comments:

13-1c

ANALYTICAL & CONSULTING CHEMISTS
CHAIN OF CUSTODY RECORD
DRINKING WATER 17-950

Dan Corder

(1) Client: Southern States
(2) Address:
(3) Phone: 880-0058 ext 148
(4) Public Drinking Water ID #:
(5) Public Water System Name: Sugar Mill Country Club
(6) Project #: Sugarmill C.C.
(7) PO#:
(8) Public Water System Type: (✓) Community ( ) Non-Community ( ) Special Non-Community

| | | Preservative | | | | Plastic Containers | | | | | | Glass Containers | | | | | | NOTES: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | HNO3 | ZnOAC/NaOH | | | 60ml | 125ml | 250ml | 500ml | 1L | White-Pac Bag | 40ml | 250ml | 500ml | 1L | 2L | 4L | (9A) Turn Around Time: 10 Working Days: 5 Working Days: 3 Working Days: 1 Working Day: Other: |
| 9 | | | | | | | | | | | | X | | | | X | | |

(10) Kit Relinquished: (10) Date: (10) Time:
(11) Kit Received: (11) Date: 2-12-91 (11) Time:

(12) SAMPLE INFORMATION; SAMPLE DATE: MONTH 2 DATE 12 YEAR 91
SAMPLE TYPE ( check all applicable); ( ) check, ( ) regular distribution
(✓) composite, ( ) clearance, ( ) max residence time, ( ) plant tap,
(✓) raw, (✓) well, ( ) resample _____, ( ) special _____
SAMPLER'S NAME: John Coffee TITLE: Operator PHONE: 880-0059
SAMPLER'S SIGNATURE:
NOTES: #675.00

1 plz. comp. vials

4 wells

First Qtr. VOCs

(13) Parameter Group(s) Analysed: Turbidity__; Inorganic__; Trihalomethane__; Volatile Organic X; Organic Chemical__; Secondary Chemical__; Radiological__; Unregulated Organic Purgeable X; Unregulated Organic Pesticide X; Unregulated Base (Neutral Extractable X; Unregulated Acid Extractable X;

| (14) Laboratory Number | (15) Client Sample Identification |
|---|---|
| 16283 | #1 |
| | #2 |
| | #3 |
| | #4 |
| | #5 |
| | #6 |
| | #7 |
| | #8 |
| | #9 |
| | #10 |

| | | Date | Time |
|---|---|---|---|
| (16) Collectors Signature: | | 2/12/91 | 1:30 p |
| (17) Transporters Signature: | | 2-12-91 | |
| (19) Lab Acceptance By: | | 2/12/91 | 3:45 |

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU
1000 Color PLace
Apopka,FL 32703

Date Reported: Jun 7 1991
PO Number: B91038
PO Number SugarMillC.C.
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WATER SAMPLE
Date Received: Jun 5 1991 Lab Number : 17103

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 17103 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 99.0 | 1.51 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 96.3 | 1.41 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 114 | 1.41 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 114 | 1.41 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 109 | 1.84 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 113 | .787 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 112 | .750 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 110 | .800 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 104 | .410 | <0.001 |
| Benzene | mg/L | 0.001 | 114 | 1.57 | <0.001 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



Jefferson S. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P.O. BOX 110-697
ALTAMONTE SPRINGS
FLORIDA 32714-0697
PH (407) 830-1784
FAX (407) 830-1111

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 3641296
Public Water System Name Sugar Mill C.C.
Public Water System Type (check one):
(X)Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyz: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number 17103
Sample Location (be specific): _____
Sample Type (check all applicable):
( )Check ( )Regular Distribution (X)Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
(X)Raw (X)Well ( )Resample
( )Special_____
Sampler Name, Title Phone:_____
_____

**ANALYSIS INFORMATION**
Extraction Date ___/___/____
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTEI Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature: _____

Name Dr. Jefferson S Flowers

Title Technical Director

Laboratory Flowers Chemical Laboratories,Inc.

Date 6/7/91

Mail Results to the
Appropriate DER or ACPHU Office:
_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 08-01-8 () Satisfactory () Unsatisfactory

Volatile Organic Analysis
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 17103 | .00002 | <.000005 | EPA504.1 | .000005 | 6/6/91 |
| 2969 | Para-dichlorobenzene | 17103 | .075 | <0.001 | EPA502.2 | 0.001 | 6/6/91 |
| 2976 | Vinyl chloride | 17103 | 0.001 | <0.001 | EPA502.2 | 0.001 | 6/6/91 |
| 2977 | 1,1-dichloroethene | 17103 | 0.007 | <0.001 | EPA502.2 | 0.001 | 6/6/91 |
| 2980 | 1,2-dichloroethane | 17103 | 0.003 | <0.001 | EPA502.2 | 0.001 | 6/6/91 |
| 2981 | 1,1,1-trichloroethane | 17103 | 0.2 | <0.001 | EPA502.2 | 0.001 | 6/6/91 |
| 2982 | Carbon tetrachloride | 17103 | 0.003 | <0.001 | EPA502.2 | 0.001 | 6/6/91 |
| 2984 | Trichloroethene | 17103 | 0.003 | <0.001 | EPA502.2 | 0.001 | 6/6/91 |
| 2987 | Tetrachloroethene | 17103 | 0.003 | <0.001 | EPA502.2 | 0.001 | 6/6/91 |
| 2990 | Benzene | 17103 | 0.001 | <0.001 | EPA502.2 | 0.001 | 6/6/91 |

Comments:

CHEMICAL LABORATORIES INCORPORATED

FDER Lab# 85018
FDHRS Lab# 85139
NCDEHNR Lab# 298
SCDHEC Lab# 96018

Attn: Doug Powell

ANALYTICAL & CONSULTING CHEMISTS
CHAIN OF CUSTODY RECORD
DRINKING WATER 17-550

| (1)Client | (2)Address | (3)Phone |
|---|---|---|
| Sugar Mill C.C. | 800 Cedar Place Leesburg | 904-787-4680 |

(4)Public Drinking Water ID # 3641296 (5)Public Water System Name: Sugarmill Country Club

(6)Project #

(7)PO# B91038

(8)Public Water System Type
(X) Community ( ) Non-Community ( ) Special Non-Community

| (9) | Preservative | | | Plastic Containers | | | | | | Glass Containers | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | HNO3 | ZnOAc/NaOH | | 60ml | 125ml | 250ml | 500ml | 1L | Whirl-Pac Bag | 40ml | 250ml | 500ml | 1L | 2L | 4L |
| 12 | | | | | | | | | | | | | | | | |

NOTES:
(10)Turn Around Time:
10 Working Days:
5 Working Days :
3 Working Days :
1 Working Day :
Other
4 wells
2nd qtr VOC's
Please Composite

| (10)Kit Relinquished | (10)Date | (11)Kit Received | (11)Date |
|---|---|---|---|
| | 5/24/91 | | |
| | (10)Time 2124 | | (11)Time |

2) SAMPLE INFORMATION; SAMPLE DATE: MONTH 6 DATE 5 YEAR 91
SAMPLE TYPE ( check all applicable): ( ) check, ( ) regular distribution
( ) composite, ( ) clearance, ( ) max residence time, ( ) plant tap,
( ) raw, (X) well, ( ) resample _____, ( ) special _____
SAMPLER'S NAME: Brent Taylor TITLE: Lead operator PHONE: 904-427-8314
SAMPLER'S SIGNATURE: Brent Taylor
NOTES:

(12)Parameter Group(s) Analysed: Turbidity__; Inorganic__; Trihalomethane__; Volatile Organic X;
Organic Chemical__; Secondary Chemical__; Radiological__; Unregulated Organic Purgeable__;
Unregulated Organic Pesticide__; Unregulated Base Neutral Extractable__; Unregulated Acid Extractable__;

(14)Laboratory Number 03

(15)Client Sample Identification

ORLANDO LABORATORIES INC.

P.O. Box 149127 • Orlando, Florida 32814

REPORT OF ANALYSIS

Southern States Utilities
255 Enterprise Rd.
Deltona, FL 32725

Attn: Doug Lovell

Work Order # : 91-08-331
Date Received: 08/21/91
Date Reported: 09/04/91
OLI Contact: L_BALTZLEY

Work ID: Sugar Mill C.C.
Samples collected by: Client
Total Samples: 6

| SAMPLE IDENTIFICATION | TEST CODES and NAMES used on this report |
|---|---|
| 01 Well #1 | PWS028 Volatile Organic Analysis |
| 02 Well #2 | |
| 03 Well #3 | |
| 04 Well #4 | |
| 05 Trip Blank | |
| 06 Method Blank | |

Copy of results to:

SSU
Attn: Bret Zigler
86 Clubhouse Blvd.
New Smyrna, FL 32168

OLI Florida Department of Health & Rehabilitative Service Identification Numbers are: Drinking Water Certification Number 83141, Environmental Certification Number E83033

Respectfully Submitted,
ORLANDO LABORATORIES, INC.

John Hobbs
LABORATORY DIRECTOR

Eric Malarek
QUALITY CONTROL

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System ID Number: 3641296
Public Water System Name: Sugar Hill Country Club
Public Water System Type (check one):
(X) Community ( ) Non-community ( ) Special Non-community

LABORATORY CERTIFICATION INFORMATION
Lab Certification Number: 83141
Parameter Group(s) Analyzed: Volatile Organics Analysis

Subcontracted Lab Certification Number (if any): N/A

SAMPLE INFORMATION
Sample Date (MMDDYY): 08/21/91
Laboratory Sample Number: 91-08-331
Sample Location: Plant site (wells 1,2,3 & 4)
Sample Type (check all applicable):
( ) Check ( ) Regular Distribution ( ) Composite
( ) Clearance ( ) Maximum Residence ( ) Plant Tap
( ) Raw (X) Well ( ) Re-sample
( ) Special
Sampler Name, Title, Phone: Bret Zigler
(904) 427-8319

ANALYSIS INFORMATION
Extraction Date (MMDDYY): 08/22/91
Laboratory Contact: Eric Halarek
Re-sample Requested? (check one): ( ) Yes ( ) No
ANALYSIS SUBMITTED: Turbidity__, Inorganic__, Trihalomethane__, Volatile Organic__, Organic Chemical__, Secondary Chemical__, Radiological___, Unregulated Organic Purgeable___, Unregulated Organic Pesticides__, Unregulated Base Neutral Extractable__, Unregulated Acid Extractable__. (Check all analyses which apply).

I do HEARBY CERTIFY that all data submitted is correct.

Signature Eric Halarek
Name Eric Halarek
Title Quality Control Officer
Laboratory Orlando Laboratories, Inc.
Date 8/4/91

Mail Results to the Appropriate DER or ACPHU Office:

DER/ACPHU Reviewing Official

Sample Interpretation (check one)
( ) Satisfactory ( ) Unsatisfactory

ORLANDO LABORATORIES,INC.
Received: 08/21/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-08-331

SAMPLE ID Well #1
DATE COLLECTED 08/21/91 07:45:00
TEST NAME Volatile Organic Analysis

SAMPLE# 01A
MATRIX WATER
TEST CODE PWS028

VOLATILE ORGANIC ANALYSIS
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | | | <0.00002 | EPA 504 | 0.00002 | 08/23/91 |
| 2969 | Para-dichlorobenzene | | | <0.0005 | EPA 524 | 0.0005 | 08/24/91 |
| 2976 | Vinyl Chloride | | | <0.0005 | EPA 524 | 0.0005 | 08/24/91 |
| 2977 | 1,1-Dichloroethene | | | <0.0005 | EPA 524 | 0.0005 | 08/24/91 |
| 2980 | 1,2-Dichloroethane | | | <0.0005 | EPA 524 | 0.0005 | 08/24/91 |
| 2981 | 1,1,1-trichloroethane | | | <0.0005 | EPA 524 | 0.0005 | 08/24/91 |
| 2982 | Carbon Tetrachloride | | | <0.0005 | EPA 524 | 0.0005 | 08/24/91 |
| 2984 | Trichloroethene | | | <0.0005 | EPA 524 | 0.0005 | 08/24/91 |
| 2987 | Tetrachloroethene | | | <0.0005 | EPA 524 | 0.0005 | 08/24/91 |
| 2990 | Benzene | | | <0.0005 | EPA 524 | 0.0005 | 08/24/91 |

Comments:

ORLANDO LABORATORIES,INC.
Received: 08/21/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-08-331

SAMPLE ID Well #2
DATE COLLECTED 08/21/91 07:45:00
TEST NAME Volatile Organic Analysis

SAMPLE# 02A
MATRIX WATER
TEST CODE PWS028

VOLATILE ORGANIC ANALYSIS
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | | | <0.00002 | EPA 504 | 0.00002 | 08/23/91 |
| 2969 | Para-dichlorobenzene | | | <0.0005 | EPA 524 | 0.0005 | 08/24/91 |
| 2976 | Vinyl Chloride | | | <0.0005 | EPA 524 | 0.0005 | 08/24/91 |
| 2977 | 1,1-Dichloroethene | | | <0.0005 | EPA 524 | 0.0005 | 08/24/91 |
| 2980 | 1,2-Dichloroethane | | | <0.0005 | EPA 524 | 0.0005 | 08/24/91 |
| 2981 | 1,1,1-trichloroethane | | | <0.0005 | EPA 524 | 0.0005 | 08/24/91 |
| 2982 | Carbon Tetrachloride | | | <0.0005 | EPA 524 | 0.0005 | 08/24/91 |
| 2984 | Trichloroethene | | | <0.0005 | EPA 524 | 0.0005 | 08/24/91 |
| 2987 | Tetrachloroethene | | | <0.0005 | EPA 524 | 0.0005 | 08/24/91 |
| 2990 | Benzene | | | <0.0005 | EPA 524 | 0.0005 | 08/24/91 |

Comments:

ORLANDO LABORATORIES, INC.
Received: 08/21/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-08-331

SAMPLE ID Well #3
DATE COLLECTED 08/21/91 07:45:00
TEST NAME Volatile Organic Analysis

SAMPLE# 03A
MATRIX WATER
TEST CODE PWS028

VOLATILE ORGANIC ANALYSIS
17-550.310(2)(d)
(PWS029)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | | | <0.00002 | EPA 504 | 0.00002 | 08/23/91 |
| 2969 | Para-dichlorobenzene | | | <0.0005 | EPA 524 | 0.0005 | 08/24/91 |
| 2976 | Vinyl Chloride | | | <0.0005 | EPA 524 | 0.0005 | 08/24/91 |
| 2977 | 1,1-Dichloroethene | | | <0.0005 | EPA 524 | 0.0005 | 08/24/91 |
| 2980 | 1,2-Dichloroethane | | | <0.0005 | EPA 524 | 0.0005 | 08/24/91 |
| 2981 | 1,1,1-trichloroethane | | | <0.0005 | EPA 524 | 0.0005 | 08/24/91 |
| 2982 | Carbon Tetrachloride | | | <0.0005 | EPA 524 | 0.0005 | 08/24/91 |
| 2984 | Trichloroethene | | | <0.0005 | EPA 524 | 0.0005 | 08/24/91 |
| 2987 | Tetrachloroethene | | | <0.0005 | EPA 524 | 0.0005 | 08/24/91 |
| 2990 | Benzene | | | <0.0005 | EPA 524 | 0.0005 | 08/24/91 |

Comments:

ORLANDO LABORATORIES,INC.
Received: 08/21/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-08-331

SAMPLE ID Well #4
DATE COLLECTED 08/21/91 07:45:00
TEST NAME Volatile Organic Analysis

SAMPLE# 04A
MATRIX WATER
TEST CODE PWS028

VOLATILE ORGANIC ANALYSIS
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | | | <0.00002 | EPA 504 | 0.00002 | 08/23/91 |
| 2969 | Para-dichlorobenzene | | | <0.0005 | EPA 524 | 0.0005 | 08/24/91 |
| 2976 | Vinyl Chloride | | | <0.0005 | EPA 524 | 0.0005 | 08/24/91 |
| 2977 | 1,1-Dichloroethene | | | <0.0005 | EPA 524 | 0.0005 | 08/24/91 |
| 2980 | 1,2-Dichloroethane | | | <0.0005 | EPA 524 | 0.0005 | 08/24/91 |
| 2981 | 1,1,1-trichloroethane | | | <0.0005 | EPA 524 | 0.0005 | 08/24/91 |
| 2982 | Carbon Tetrachloride | | | <0.0005 | EPA 524 | 0.0005 | 08/24/91 |
| 2984 | Trichloroethene | | | <0.0005 | EPA 524 | 0.0005 | 08/24/91 |
| 2987 | Tetrachloroethene | | | <0.0005 | EPA 524 | 0.0005 | 08/24/91 |
| 2990 | Benzene | | | <0.0005 | EPA 524 | 0.0005 | 08/24/91 |

Comments:

ORLANDO LABORATORIES,INC.
Received: 08/21/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-08-331

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME Volatile Organic Analysis

SAMPLE# 06A
MATRIX METHOD BLAN
TEST CODE PWS028

VOLATILE ORGANIC ANALYSIS
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | | | <0.00002 | EPA 504 | 0.00002 | 08/23/91 |
| 2969 | Para-dichlorobenzene | | | <0.0005 | EPA 524 | 0.0005 | 08/24/91 |
| 2976 | Vinyl Chloride | | | <0.0005 | EPA 524 | 0.0005 | 08/24/91 |
| 2977 | 1,1-Dichloroethene | | | <0.0005 | EPA 524 | 0.0005 | 08/24/91 |
| 2980 | 1,2-Dichloroethane | | | <0.0005 | EPA 524 | 0.0005 | 08/24/91 |
| 2981 | 1,1,1-trichloroethane | | | <0.0005 | EPA 524 | 0.0005 | 08/24/91 |
| 2982 | Carbon Tetrachloride | | | <0.0005 | EPA 524 | 0.0005 | 08/24/91 |
| 2984 | Trichloroethene | | | <0.0005 | EPA 524 | 0.0005 | 08/24/91 |
| 2987 | Tetrachloroethene | | | <0.0005 | EPA 524 | 0.0005 | 08/24/91 |
| 2990 | Benzene | | | <0.0005 | EPA 524 | 0.0005 | 08/24/91 |

Comments:

ORLANDO LABORATORIES,INC.
Received: 08/21/91

REPORT OF ANALYSIS
NonReported Work

Work Order # 91-08-331

FRACTION AND TEST CODES FOR WORK NOT REPORTED ELSEWHERE

05A : NOTEST

ORLANDO LABORATORIES INC.

GC/MS VOLATILE ORGANICS



MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 08-25-1991

LAB SAMPLE # : 9108376-1 524
ANALYSIS DATE : 8/24/91

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| 1,1-dichloroethene | 50 | 0 | 47 | 94 | 49 | 98 | 4 |
| trichloroethene | 50 | 0 | 49 | 98 | 46 | 92 | 6 |
| benzene | 50 | 0 | 54 | 108 | 51 | 102 | 6 |
| toluene | 50 | 0 | 51 | 102 | 49 | 98 | 4 |
| chlorobenzene | 50 | 0 | 46 | 92 | 46 | 92 | 0 |

COMMENTS :

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| 1,1-dichloroethene | 64 | 137 | 19 | 50 | 142 | 22 |
| trichloroethene | 76 | 124 | 24 | 70 | 128 | 25 |
| benzene | 77 | 113 | 25 | 64 | 134 | 26 |
| toluene | 65 | 125 | 20 | 69 | 132 | 24 |
| chlorobenzene | 71 | 123 | 24 | 72 | 124 | 20 |

ORLANDO LABORATORIES, INC.

GC ORGANICS

# MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 08-26-1991

LAB SAMPLE # : 9108315-02A
ANALYSIS DATE : 08/23/91

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| Ethylene Dibromide | 100 | 0 | 50 | 50 | 50 | 50 | 0 |
| Dibromochloropropane | 100 | 0 | 58 | 58 * | 57 | 57 * | 2 |

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| Ethylene Dibromide | 50 | 100 | 30 | 35 | 100 | 30 |
| Dibromochloropropane | 65 | 110 | 30 | 60 | 110 | 30 |

* Comments: Parameter outside QC limits due to matrix interference.

5990

**ORLANDO LABORATORIES, INC.**
P.O. Box 149127, Orlando, FL 32814
(407) 896-6645 FAX (407) 898-6588

# CHAIN-OF-CUSTODY RECORD

(INSTRUCTIONS ON BACK)

Page 1 of 1

| 1 INVOICE TO (COMPANY AND INDIVIDUAL) / ADDRESS (CITY, STATE, ZIP) | 2 CONTACT PERSON/PHONE # INVOICE | 3 OLI WORK ORDER # (LAB USE) |
|---|---|---|
| SSU. 1000 Colorplace Apopka Fl. 32725 | Doug Lovell | |
| **4 ORIGINAL REPORT TO (COMPANY AND INDIVIDUAL) / ADDRESS (CITY, STATE, ZIP)** | **5 CONTACT PERSON/PHONE # REPORT** | **6 RB NUMBER (LAB USE)** |
| SSU. Dalton ~~3225 255~~ ENterprise Deltona Fl. | Bret Zigler | |
| **7 (OPTIONAL) ADDITIONAL REPORTS SENT TO / ADDRESS (CITY, STATE, ZIP)** | | |
| SSU. 86 Clubhouse Blvd New Smyrna 32168 | | |
| **8 CLIENT PROJECT NAME** | **9 CLIENT PROJECT #** | |
| Sugar Mill C.C. | | |

| 10 SAMPLE IDENTIFICATION | 11 DATE/TIME | 12 COMP | GRAB | WATER | SOIL | OTHER | 13 SAMPLE DESCRIPTION | 17 NUMBER OF CONTAINERS | 18 REQUESTED ANALYSIS | 19 REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| Well #1 | 8 | | ✓ | | | | Water | 3 | ✓ ✓ ✓ ✓ | |
| Well #2 | 8- | | ✓ | | | | Water | 3 | ✓ ✓ ✓ ✓ | |
| Well #3 | 8- | | ✓ | | | | Water | 3 | ✓ ✓ ✓ ✓ | |
| Well #4 | 8- | | ✓ | | | | Water | 3 | ✓ ✓ ✓ ✓ | |

| TRANSFER NUMBER | 14 RELINQUISHED BY | 15 DATE/TIME | 16 ACCEPTED BY |
|---|---|---|---|
| 1st | [illegible] | 3/7 10:25 | [illegible] |
| 2nd | [illegible] | [illegible] | [illegible] |
| 3rd | | | |

| 20 ADDITIONAL REMARKS | 21 COOLER #'s |
|---|---|
| | |

22 SAMPLER'S SIGNATURE

ORIGINAL - LAB
YELLOW - FILE
PINK - CLIENT

SSU SERVICES

**Deltona Office**
255 Enterprise Rd.
Deltona, FL 32725
Business
(407) 574-6680
Customer Service
(407) 574-6608

January 31, 1992

Ms. Jackie Burkes
Records Tech
St. Johns River Water
Management District
P.O. Box 1429
Palatka, FL 32177

RE: 1992 FOURTH QUARTER VOLATILE ORGANIC
SAMPLE RESULTS FOR SUGAR MILL

Dear Ms. Burkes:

Please review the enclosed the 1992 fourth quarter Report of Analysis for our Sugar Mill Plant. We apologize for the delay in submitting these analyses to you, but we only just received them back from Flowers Chemical Laboratories, Inc.

If you need any explanation regarding these reports, please contact me.

Thank you,

Douglas Lovell
General Manager, Deltona

DL:kj

Enclosures

cc: Mr. Alex Alexander, Department of Environmental Regulation
Mr. Lee Faircloth, Volusia County Health Department
Ms. Chris Arcand, Assistant II, Engineering, SSU Services
Ms. Clara Dozier, Operations Specialist, SSU Services

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Nov14 1991
PO Number: BLANKET
PO Number 1801
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WELL 1
Date Received: Nov 6 1991 Lab Number : 18202

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 18202 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 103 | 14.3 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 86.8 | .408 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 113 | 10.1 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 113 | 10.1 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 97.4 | .201 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 107 | 1.26 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 108 | 1.26 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 97.9 | .641 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 97.4 | 3.96 | <0.001 |
| Benzene | mg/L | 0.001 | 107 | 8.22 | <0.001 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS. (407) 339-5984
FAX. (407) 260-6110

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Nov14 1991
PO Number: BLANKET
PO Number 1801
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WELL 2
Date Received: Nov 6 1991 Lab Number : 18203

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 18203 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 103 | 14.3 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 86.8 | .408 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 113 | 10.1 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 113 | 10.1 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 97.4 | .201 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 107 | 1.26 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 108 | 1.26 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 97.9 | .641 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 97.4 | 3.96 | <0.001 |
| Benzene | mg/L | 0.001 | 107 | 8.22 | <0.001 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA, 32715-0597
BUS (407) 339-5984
FAX (407) 290-6110

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Nov14 1991
PO Number: BLANKET
PO Number 1801
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WELL 3
Date Received: Nov 6 1991 Lab Number : 18204

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 18204 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 103 | 14.3 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 86.8 | .408 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 113 | 10.1 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 113 | 10.1 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 97.4 | .201 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 107 | 1.26 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 108 | 1.26 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 97.9 | .641 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 97.4 | 3.96 | <0.001 |
| Benzene | mg/L | 0.001 | 107 | 8.22 | <0.001 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984
FAX (407) 260-6110

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU
1000 Color Place
Apopka, FL 32703

Date Reported: Nov14 1991
PO Number: BLANKET
PO Number 1801
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WELL 4
Date Received: Nov 6 1991 Lab Number : 18205

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 18205 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 103 | 14.3 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 86.8 | .408 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 113 | 10.1 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 113 | 10.1 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 97.4 | .201 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 107 | 1.26 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 108 | 1.26 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 97.9 | .641 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 97.4 | 3.96 | <0.001 |
| Benzene | mg/L | 0.001 | 107 | 8.22 | <0.001 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
451 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984
FAX (407) 260-6110

## PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number:
Public Water System Name Sugar Mill C.C.
Public Water System Type (check one):
( )Community ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyzed: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number: 18202
Sample Location (be specific): _____
Sample Type (check all applicable):
( )Check ( )Regular Distribution (✓)Composite
( )Clearance ( )Maximum Residence Time ( )Plant Tap
(✓)Raw (✓)Well ( )Resample
( )Special_____
Sampler Name, Title Phone:_____
_____

**ANALYSIS INFORMATION**
Extraction ___/___/____
Laboratory Dr. J.S. Flowers
Resample Requested? (check one): ()Yes (X) No
ANALYSIS SUBMITTED: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature:

Name **Dr. Jefferson S Flowers**

Title **Technical Director**

Laboratory **Flowers Chemical Laboratories,Inc.**

Date 11/14/91

Mail Results to the Appropriate DER or ACPHU Office:

_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 0 () Satisfactory () Unsatisfactory

Volatile Organic Analysis
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 18202 | .00002 | <.000005 | EPA504.1 | .000005 | 11/12/91 |
| 2969 | Para-dichlorobenzene | 18202 | .075 | <0.001 | EPA502.2 | 0.001 | 11/7/91 |
| 2976 | Vinyl chloride | 18202 | 0.001 | <0.001 | EPA502.2 | 0.001 | 11/7/91 |
| 2977 | 1,1-dichloroethene | 18202 | 0.007 | <0.001 | EPA502.2 | 0.001 | 11/7/91 |
| 2980 | 1,2-dichloroethane | 18202 | 0.003 | <0.001 | EPA502.2 | 0.001 | 11/7/91 |
| 2981 | 1,1,1-trichloroethane | 18202 | 0.2 | <0.001 | EPA502.2 | 0.001 | 11/7/91 |
| 2982 | Carbon tetrachloride | 18202 | 0.003 | <0.001 | EPA502.2 | 0.001 | 11/7/91 |
| 2984 | Trichloroethene | 18202 | 0.003 | <0.001 | EPA502.2 | 0.001 | 11/7/91 |
| 2987 | Tetrachloroethene | 18202 | 0.003 | <0.001 | EPA502.2 | 0.001 | 11/7/91 |
| 2990 | Benzene | 18202 | 0.001 | <0.001 | EPA502.2 | 0.001 | 11/7/91 |

Comments:

## PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number:_____
Public Water System Name Sugar Mill C.C.
Public Water System Type (check one):
( )Community ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyzed: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number: 18203
Sample Location (be specific): _____
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composite
( )Clearance ( )Maximum Residence Time ( )Plant Tap
(X)Raw (X)Well ( )Resample
( )Special_____
Sampler Name, Title Phone:_____
_____

**ANALYSIS INFORMATION**
Extraction ___/___/____
Laboratory Dr. J.S. Flowers
Resample Requested? (check one): ()Yes (X) No
ANALYSIS SUBMITTED: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature:_____

Name **Dr Jefferson S Flowers**

Title **Technical Director**

Laboratory **Flowers Chemical Laboratories,Inc.**

Date 11/14/91

Mail Results to the
Appropriate DER or ACPHU Office:

_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 0 () Satisfactory () Unsatisfactory

Volatile Organic Analysis
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 18203 | .00002 | <.000005 | EPA504.1 | .000005 | 11/12/91 |
| 2969 | Para-dichlorobenzene | 18203 | .075 | <0.001 | EPA502.2 | 0.001 | 11/7/91 |
| 2976 | Vinyl chloride | 18203 | 0.001 | <0.001 | EPA502.2 | 0.001 | 11/7/91 |
| 2977 | 1,1-dichloroethene | 18203 | 0.007 | <0.001 | EPA502.2 | 0.001 | 11/7/91 |
| 2980 | 1,2-dichloroethane | 18203 | 0.003 | <0.001 | EPA502.2 | 0.001 | 11/7/91 |
| 2981 | 1,1,1-trichloroethane | 18203 | 0.2 | <0.001 | EPA502.2 | 0.001 | 11/7/91 |
| 2982 | Carbon tetrachloride | 18203 | 0.003 | <0.001 | EPA502.2 | 0.001 | 11/7/91 |
| 2984 | Trichloroethene | 18203 | 0.003 | <0.001 | EPA502.2 | 0.001 | 11/7/91 |
| 2987 | Tetrachloroethene | 18203 | 0.003 | <0.001 | EPA502.2 | 0.001 | 11/7/91 |
| 2990 | Benzene | 18203 | 0.001 | <0.001 | EPA502.2 | 0.001 | 11/7/91 |

Comments:

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number:
Public Water System Name Sugar Mill C.C.
Public Water System Type (check one):
( )Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyzed: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number 18204
Sample Location (be specific): _____
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
(X)Raw (X)Well ( )Resample
( )Special_____
Sampler Name, Title Phone:_____
_____
**ANALYSIS INFORMATION**
Extraction Date ___/___/____
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTED Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature

Name **Dr. Jefferson S Flowers**

Title **Technical Director**

Laboratory **Flowers Chemical Laboratories,Inc.**

Date 11/13/91

Mail Results to the Appropriate DER or ACPHU Office:
_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 06/01/9 () Satisfactory () Unsatisfactory

Volatile Organic Analysis
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 18204 | .00002 | <.000005 | EPA504.1 | .000005 | 11/12/91 |
| 2969 | Para-dichlorobenzene | 18204 | .075 | <0.001 | EPA502.2 | 0.001 | 11/7/91 |
| 2976 | Vinyl chloride | 18204 | 0.001 | <0.001 | EPA502.2 | 0.001 | 11/7/91 |
| 2977 | 1,1-dichloroethene | 18204 | 0.007 | <0.001 | EPA502.2 | 0.001 | 11/7/91 |
| 2980 | 1,2-dichloroethane | 18204 | 0.003 | <0.001 | EPA502.2 | 0.001 | 11/7/91 |
| 2981 | 1,1,1-trichloroethane | 18204 | 0.2 | <0.001 | EPA502.2 | 0.001 | 11/7/91 |
| 2982 | Carbon tetrachloride | 18204 | 0.003 | <0.001 | EPA502.2 | 0.001 | 11/7/91 |
| 2984 | Trichloroethene | 18204 | 0.003 | <0.001 | EPA502.2 | 0.001 | 11/7/91 |
| 2987 | Tetrachloroethene | 18204 | 0.003 | <0.001 | EPA502.2 | 0.001 | 11/7/91 |
| 2990 | Benzene | 18204 | 0.001 | <0.001 | EPA502.2 | 0.001 | 11/7/91 |

Comments:

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number:
Public Water System Name Sugar Mill C.C.
Public Water System Type (check one):
(X)Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyzed: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number 18205
Sample Location (be specific): _____
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
(X)Raw (X)Well ( )Resample
( )Special_____
Sampler Name, Title Phone:_____
_____

**ANALYSIS INFORMATION**
Extraction Date ___/___/____
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTED: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature:_____

Name **Dr Jefferson S Flowers**

Title **Technical Director**

Laboratory **Flowers Chemical Laboratories,Inc.**

Date 11/13/91

Mail Results to the
Appropriate DER or ACPHU Office:
_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 06/01/8 () Satisfactory () Unsatisfactory

Volatile Organic Analysis
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 18205 | .00002 | <.000005 | EPA504.1 | .000005 | 11/12/91 |
| 2969 | Para-dichlorobenzene | 18205 | .075 | <0.001 | EPA502.2 | 0.001 | 11/7/91 |
| 2976 | Vinyl chloride | 18205 | 0.001 | <0.001 | EPA502.2 | 0.001 | 11/7/91 |
| 2977 | 1,1-dichloroethene | 18205 | 0.007 | <0.001 | EPA502.2 | 0.001 | 11/7/91 |
| 2980 | 1,2-dichloroethane | 18205 | 0.003 | <0.001 | EPA502.2 | 0.001 | 11/7/91 |
| 2981 | 1,1,1-trichloroethane | 18205 | 0.2 | <0.001 | EPA502.2 | 0.001 | 11/7/91 |
| 2982 | Carbon tetrachloride | 18205 | 0.003 | <0.001 | EPA502.2 | 0.001 | 11/7/91 |
| 2984 | Trichloroethene | 18205 | 0.003 | <0.001 | EPA502.2 | 0.001 | 11/7/91 |
| 2987 | Tetrachloroethene | 18205 | 0.003 | <0.001 | EPA502.2 | 0.001 | 11/7/91 |
| 2990 | Benzene | 18205 | 0.001 | <0.001 | EPA502.2 | 0.001 | 11/7/91 |

Comments:

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

FDER Lab# EB3018
FDHRS Lab# 83139
NCDEHNR Lab# 296
SCDHEC Lab# 99019

ANALYTICAL & CONSULTING CHEMISTS
CHAIN OF CUSTODY RECORD
DRINKING WATER 17-550

(1)Client: SSU./Sugar Mill Cc.
(2)Address: 1000 Colorplace Apopka, 86 Clubhouse and New Smyrna 32168
(3)Phone: 880-0038, 904/427-8319
(4)Public Drinking Water ID #: 3641296
(5)Public Water System Name:
(6)Project #: 1801
(7)PO#: Blanket
(8)Public Water System Type: (x) Community ( ) Non-Community ( ) Special Non-Community

| | Preservative | | Plastic Containers | | | | | | Glass Containers | | | | | | NOTES: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | HNO3 | ZnOAC/NaOH | | 60ml | 125ml | 250ml | 500ml | 1L | Whirl Pac Bag | 40ml | 250ml | 500ml | 1L | 2L | 4L | (12)Turn Around Time:<br>10 Working Days:<br>5 Working Days :<br>3 Working Days :<br>1 Working Day :<br>Other : |
| (16) | | | | | | | | | | | | | | | | |

(17)Kit Relinquished: | (17)Date / (17)Time | (9)Kit Received | (9)Date / (9)Time

(10)Parameter Group(s) Analysed: Turbidity__; Inorganic__; Trihalomethane__; Volatile Organic X
Organic Chemical__; Secondary Chemical__; Radiological__; Unregulated C[illegible]ic Pur[illegible]ble__;
Unregulated Organic Pesticide__; Unregulated Base Neutral Extractable__; Unregulated [illegible]id Extractable__

| (18)Laboratory Number | | (11)Client Sample Identification |
|---|---|---|
| 18202 | #1 | Sugar Mill Cc well #1 |
| 18203 | #2 | #2 |
| 18204 | #3 | #3 |
| 18205 | #4 | #4 |
| | #5 | |
| | #6 | |
| | #7 | |
| | #8 | |
| | #9 | |
| | #10 | |

| | | Date | Time |
|---|---|---|---|
| (13)Collectors Signature: | [signature] | 11-6-91 | 3:00 |
| (14)Transporters Signature: | [signature] | 11-6-91 | 4:30 |
| (15)Lab Acceptance By: | [signature] | 11/6/91 | 15:07 |

Over for numbered instructions.

ORLANDO LABORATORIES INC

P.O. Box 149127 • Orlando, Florida 32814 • (407) 896-6645



# REPORT OF ANALYSIS

Southern States Utilities
Attn: Aaron Perlowich
1000 Color Place
Apopka, Florida 32703

Report #: 2403 (89-02-146)
Sample submitted by: Client(Bret) *
Date sampled: 02-16-89 @ 0800 hours *
Date received: 02-16-89
Date reported: 03-15-89
Page 1 of 12

PURPOSE: To analyze the samples for listed parameters
AUTHORIZATION: Chain of Custody Form received from client 02-16-89
SAMPLE IDENTIFICATION: Water samples submitted and identified by client as: Sugar Mill Country Club - Distribution System, Well #1, Well #2, Well #3, Well #4, Entry Point
PROCEDURE: EPA METHOD 624

## RESULTS, ug/l

| VOLATILE ORGANIC COMPOUNDS | DISTRIBUTION SYSTEM | METHOD BLANK |
|---|---|---|
| Benzene | ND(1) | ND(1) |
| Bromodichloromethane | 2 | ND(1) |
| Bromoform | 25 | ND(1) |
| Bromomethane | ND(1) | ND(1) |
| Dibromomethane | ND(1) | ND(1) |
| Chlorobenzene | ND(1) | ND(1) |
| Chloroethane | ND(1) | ND(1) |
| Chloroform | 2 | ND(1) |
| Chloromethane | ND(1) | ND(1) |
| Dibromochloromethane | 5 | ND(1) |
| 1,1-Dichloroethane | ND(1) | ND(1) |
| Dichlorobenzene | ND(1) | ND(1) |
| 1,1-Dichloroethene | ND(1) | ND(1) |
| trans-1,2-Dichloroethene | ND(1) | ND(1) |
| 1,2-Dichloropropane | ND(1) | ND(1) |
| cis-1,3-Dichloropropene | ND(1) | ND(1) |
| trans-1,3-Dichloropropene | ND(1) | ND(1) |
| Ethylbenzene | ND(1) | ND(1) |
| † Methylene Chloride | 3 | 4 |

< = Less Than
† = Found in method blank
* Sampling information based on data supplied by client.
ND = Not detected to the levels in parentheses.

Respectfully submitted,
ORLANDO LABORATORIES, INC.

for Laboratory Manager

Quality Control

OLI Florida Department of Health & Rehabilitative Service Identification Number is 83141.

*The Analytical Specialists*

PROCEDURE: EPA METHOD 624

RESULTS, ug/l

| VOLATILE ORGANIC COMPOUNDS | DISTRIBUTION SYSTEM | METHOD BLANK |
|---|---|---|
| Styrene | ND(1) | ND(1) |
| 1,1,1,2-Tetrachloroethane | ND(1) | ND(1) |
| Toluene | ND(1) | ND(1) |
| 1,1-Dichloropropene | ND(1) | ND(1) |
| 1,1,2-Trichloroethane | ND(1) | ND(1) |
| 2,2-Dichloropropane | ND(1) | ND(1) |
| Bromobenzene | ND(1) | ND(1) |
| meta - Xylene | ND(1) | ND(1) |
| ortho, para - Xylene | ND(1) | ND(1) |
| 1,2-Dibromo-3-chloropropane | ND(1) | ND(1) |
| 2,2-Dichloropropane | ND(1) | ND(1) |
| 1,1,1,2-Tetrachloroethane | ND(1) | ND(1) |
| 1,2,3-Trichloropropane | ND(1) | ND(1) |
| 1,3-Dichlorobenzene | ND(1) | ND(1) |
| 1,4-Dichlorobenzene | ND(1) | ND(1) |
| Trichloroethylene | ND(1) | ND(1) |
| Tetrachloroethylene | ND(1) | ND(1) |
| Carbon Tetrachloride | ND(1) | ND(1) |
| Vinyl Chloride | ND(1) | ND(1) |
| 1,1,1-Trichloroethane | ND(1) | ND(1) |
| 1,2-Dichloroethane | ND(1) | ND(1) |
| Chlorotoluenes | ND(1) | ND(1) |

PROCEDURE: EPA METHOD 900.0

RESULTS, pCi/l

| DETERMINATION | DISTRIBUTION SYSTEM |
|---|---|
| Gross Alpha (Storet #01501) | <0.5 |
| Counting error (Storet #01502) | ± 2.4 |

RESULTS

| DETERMINATION | ENTRY POINT | UNITS | PROCEDURE |
|---|---|---|---|
| Sodium, Na | 67.2 | mg/l | EPA 273.1 |
| Turbidity | <1 | NTU | EPA 180.1 |
| Corrosivity | -0.4 | units | Calculation |

PROCEDURE: EPA METHOD 625

RESULTS, ug/l

| ACID EXTRACTABLE ORGANICS BY GC/MS | DIST. SYSTEM | METHOD BLANK |
|---|---|---|
| 4-Chloro-3-methyl phenol | ND(10) | ND(10) |
| 2-Chlorophenol | 26 | ND(10) |
| 2,4-Dichlorophenol | ND(10) | ND(10) |
| 2,4-Dimethylphenol | ND(10) | ND(10) |
| 2,4-Dinitrophenol | ND(50) | ND(50) |
| 2-Methyl-4,6-dinitrophenol | ND(50) | ND(50) |
| 2-Nitrophenol | ND(10) | ND(10) |
| 4-Nitrophenol | ND(50) | ND(50) |
| Pentachlorophenol | ND(50) | ND(50) |
| Phenol | ND(10) | ND(10) |
| 2,4,6-Trichlorophenol | ND(10) | ND(10) |

PROCEDURE: EPA METHOD 625

RESULTS, ug/l

| BASE/NEUTRAL EXTRACTABLES BY GC/MS | DIST. SYSTEM | METHOD BLANK |
|---|---|---|
| Acenapthene | ND(10) | ND(10) |
| Acenapthylene | ND(10) | ND(10) |
| Anthracene | ND(10) | ND(10) |
| Benzidine | ND(50) | ND(50) |
| Benzo(a)anthracene | ND(10) | ND(10) |
| Benzo(b)fluoranthene | ND(10) | ND(10) |
| Benzo(k)fluoranthene | ND(10) | ND(10) |
| Benzo(a)pyrene | ND(10) | ND(10) |
| Benzo(g,h,i)perylene | ND(10) | ND(10) |
| Benzyl-butyl phthalate | ND(10) | ND(10) |
| bis(2-Chloroethyl)ether | ND(10) | ND(10) |
| bis(2-Chloroethoxy)methane | ND(10) | ND(10) |
| bis(2-Ethylhexyl)pnthalate | ND(10) | ND(10) |
| bis(2-Chloroisopropyl)ether | ND(10) | ND(10) |
| 4-Bromophenyl phenyl ether | ND(10) | ND(10) |
| 2-Chloronaphthalene | ND(10) | ND(10) |
| o-Chlorotoluene | ND(10) | ND(10) |
| p-Chlorotoluene | ND(10) | ND(10) |
| 4-Chlorophenyl phenyl ether | ND(10) | ND(10) |
| Chrysene | ND(10) | ND(10) |
| Dibenzo(a,h)anthracene | ND(10) | ND(10) |
| Di-n-butyl-phthalate | ND(10) | ND(10) |
| 1,2-Dichlorobenzene | ND(10) | ND(10) |
| 1,3-Dichlorobenzene | ND(10) | ND(10) |

PROCEDURE: EPA METHOD 625

RESULTS, ug/l

| BASE/NEUTRAL EXTRACTABLES BY GC/MS | DIST. SYSTEM | METHOD BLANK |
|---|---|---|
| 1,4-Dichlorobenzene | ND(10) | ND(10) |
| 3,3-Dichlorobenzidine | ND(20) | ND(20) |
| Diethyl phthalate | ND(10) | ND(10) |
| Dimethyl phthalate | ND(10) | ND(10) |
| 2,4-Dinitrotoluene | ND(10) | ND(10) |
| 2,6-Dinitrotoluene | ND(10) | ND(10) |
| Di-n-octyl-phthalate | ND(10) | ND(10) |
| Fluoranthene | ND(10) | ND(10) |
| Fluorene | ND(10) | ND(10) |
| Hexachlorobenzene | ND(10) | ND(10) |
| Hexachlorobutadiene | ND(10) | ND(10) |
| Hexachlorocyclopentadiene | ND(10) | ND(10) |
| Hexachloroethane | ND(10) | ND(10) |
| Indeno(1,2,3-c,d)pyrene | ND(10) | ND(10) |
| Isophorone | ND(10) | ND(10) |
| Naphthalene | ND(10) | ND(10) |
| Nitrobenzene | ND(10) | ND(10) |
| n-Nitrosodimethylamine | ND(10) | ND(10) |
| n-Nitrosodi-n-propylamine | ND(10) | ND(10) |
| n-Nitrosodiphenylamine | ND(10) | ND(10) |
| Phenanthrene | ND(10) | ND(10) |
| Pyrene | ND(10) | ND(10) |
| 1,2,4-Trichlorobenzene | ND(10) | ND(10) |
| 2-methyl naphthalene | ND(10) | ND(10) |
| Aniline | ND(10) | ND(10) |
| Benzyl alcohol | ND(10) | ND(10) |
| 2-methylphenol | ND(10) | ND(10) |
| 4-methylphenol | ND(10) | ND(10) |
| 4-chloroaniline | ND(10) | ND(10) |
| dibenzofuran | ND(10) | ND(10) |
| Benzoic acid | ND(50) | ND(50) |
| 2,4,5-trichlorophenol | ND(50) | ND(50) |
| 2-nitroaniline | ND(50) | ND(50) |
| 3-nitroaniline | ND(50) | ND(50) |
| 4-nitroaniline | ND(50) | ND(50) |

PROCEDURE: EPA METHOD 608

RESULTS, ug/l

| ORGANOCHLORINE PESTICIDES | DIST. SYSTEM | METHOD BLANK |
|---|---|---|
| Alpha-BHC | ND(0.05) | ND(0.05) |
| Beta-BHC | ND(0.05) | ND(0.05) |
| Delta-BHC | ND(0.05) | ND(0.05) |
| Gamma-BHC | ND(0.05) | ND(0.05) |
| Heptachlor | ND(0.05) | ND(0.05) |
| Aldrin | ND(0.05) | ND(0.05) |
| Heptachlor epoxide | ND(0.05) | ND(0.05) |
| Endosulfan I | ND(0.05) | ND(0.05) |
| Dieldrin | ND(0.10) | ND(0.10) |
| 4,4'-DDE | ND(0.10) | ND(0.10) |
| Endrin | ND(0.10) | ND(0.10) |
| Endosulfan II | ND(0.10) | ND(0.10) |
| 4,4'-DDD | ND(0.10) | ND(0.10) |
| Endosulfan sulfate | ND(0.10) | ND(0.10) |
| 4,4'-DDT | ND(0.10) | ND(0.10) |
| Methoxychlor | ND(0.50) | ND(0.50) |
| Endrin ketone | ND(0.10) | ND(0.10) |
| Alpha-Chlordane | ND(0.50) | ND(0.50) |
| Gamma-Chlordane | ND(0.50) | ND(0.50) |
| Toxaphene | ND(1.00) | ND(1.00) |

PROCEDURE: EPA METHOD 608

RESULTS, ug/l

| POLYCHLORINATED BIPHENYLS, PCB's | DIST. SYSTEM | METHOD BLANK |
|---|---|---|
| Arochlor 1016 | ND(0.50) | ND(0.50) |
| Arochlor 1221 | ND(0.50) | ND(0.50) |
| Arochlor 1232 | ND(0.50) | ND(0.50) |
| Arochlor 1242 | ND(0.50) | ND(0.50) |
| Arochlor 1248 | ND(0.50) | ND(0.50) |
| Arochlor 1254 | ND(1.00) | ND(1.00) |
| Arochlor 1260 | ND(1.00) | ND(1.00) |

PROCEDURE: EPA METHOD 622

RESULTS, ug/l

| ORGANOPHOSPHORUS PESTICIDES | DIST. SYSTEM | METHOD BLANK |
|---|---|---|
| Dichlorvous | ND(1.0) | ND(1.0) |
| Demeton | ND(1.0) | ND(1.0) |
| Phorate | ND(1.0) | ND(1.0) |
| Disulfoton | ND(1.0) | ND(1.0) |
| Mevinphos | ND(1.0) | ND(1.0) |
| Trichloronate | ND(1.0) | ND(1.0) |
| Ethoprop | ND(1.0) | ND(1.0) |
| Fenthion | ND(1.0) | ND(1.0) |
| Naled | ND(1.0) | ND(1.0) |
| Parathion methyl | ND(1.0) | ND(1.0) |
| Tokuthion (prothiofos) | ND(1.0) | ND(1.0) |
| Bolstar | ND(1.0) | ND(1.0) |
| Ronnel | ND(1.0) | ND(1.0) |
| Chlorpyrifos | ND(1.0) | ND(1.0) |
| Fensulfothion | ND(1.0) | ND(1.0) |
| Azinphos methyl | ND(1.0) | ND(1.0) |
| Merphos | ND(1.0) | ND(1.0) |
| Diazinon | ND(1.0) | ND(1.0) |
| Stirophos (tetrachlorvinphos) | ND(1.0) | ND(1.0) |
| Coumaphos | ND(1.0) | ND(1.0) |

PROCEDURE: EPA METHOD 531

RESULTS, ug/l

| DETERMINATION | DIST. SYSTEM | METHOD BLANK |
|---|---|---|
| Temik (Aldicarb) | ND(1.0) | ND(1.0) |

PROCEDURE: EPA METHOD 504

RESULTS, ug/l

| SAMPLES | ETHYLENE DIBROMIDE |
|---|---|
| Well #1 | ND(0.02) |
| Well #2 | ND(0.02) |
| Well #3 | ND(0.02) |
| Well #4 | ND(0.02) |
| METHOD BLANK | ND(0.02) |

PROCEDURE: In accordance with Federal Register-Vol. 40, No. 248, Part IV-Wednesday, December 24, 1975. U.S. Environmental Protection Agency, National Interim Primary Drinking Water Regulations.

RESULTS, mg/l

| INORGANIC | MCL | DIST. SYSTEM |
|---|---|---|
| Arsenic, As | 0.05 | <0.010 |
| Barium, Ba | 1.0 | <0.100 |
| Cadmium, Cd | 0.010 | <0.005 |
| Chromium, Cr | 0.05 | <0.010 |
| Lead, Pb | 0.05 | <0.010 |
| Mercury, Hg | 0.002 | <0.0005 |
| Selenium, Se | 0.01 | <0.005 |
| Silver, Ag | 0.05 | <0.010 |
| Sodium, Na | 160 | 84.8 |
| Nitrate Nitrogen, $NO_3$-N | 10 | 0.08 |
| Turbidity, NTU | 1 NTU | <1 |
| Fluoride, F | 4.0 | 0.17 |

"ORGANIC ANALYSES BY GAS CHROMATOGRAPHIC SCREENING"

| ORGANIC | MCL | DIST. SYSTEM |
|---|---|---|
| Endrin | 0.0002 | ND(0.0001) |
| Lindane | 0.004 | ND(0.001) |
| Methoxychlor | 0.1 | ND(0.01) |
| Toxaphene | 0.005 | ND(0.005) |
| 2,4-D | 0.1 | ND(0.002) |
| 2,4,5-TP (Silvex) | 0.01 | ND(0.001) |

PROCEDURE: This water was analyzed according to "Standard Methods for the Examination of Water and Wastewater", 16th Edition, APHA, AWWA, and WPCF (1985).

## RESULTS

| DETERMINATION | (MCL) | DIST. SYSTEM | UNITS |
|---|---|---|---|
| Chloride, Cl | (250) | 180 | mg/l |
| Color | (15) | <5 | PCU |
| Foaming Agents, (MBAS) | (0.5) | <0.1 | mg/l |
| Sulfate, $SO_4$ | (250) | <1 | mg/l |
| Total Dissolved Solids | (500) | 600 | mg/l |
| pH (Laboratory) | (6.5-8.5) | 7.2 | units |
| Odor Threshold | (3) | 2 | ---- |
| Corrosivity | (-0.2 to +0.2) | -0.4 | ---- |
| Fluoride, F | (2) | 0.17 | mg/l |
| Copper, Cu | (1.0) | 0.034 | mg/l |
| Iron, Fe | (0.3) | <0.100 | mg/l |
| Manganese, Mn | (0.05) | <0.050 | mg/l |
| Zinc, Zn | (5) | 0.079 | mg/l |
| Phenolphthalein Alkalinity, $CaCO_3$ | | 0 | mg/l |
| Total Alkalinity, $CaCO_3$ | | 130 | mg/l |
| Carbonate Alkalinity, $CaCO_3$ | | 0 | mg/l |
| Bicarbonate Alkalinity, $CaCO_3$ | | 130 | mg/l |
| Carbonates, $CaCO_3$ | | 0 | mg/l |
| Bicarbonates, $HCO_3$ | | 160 | mg/l |
| Hydroxides, as OH | | 0 | mg/l |
| Carbon Dioxide, $CO_2$ | | 15 | mg/l |
| pHs | | 7.6 | ---- |
| Stability Index | | 8.0 | ---- |
| Specific Conductance | | 770 | umnos |
| Hydrogen Sulfide, $H_2S$ | | <0.1 | mg/l |
| Nitrate Nitrogen, $NO_3$-N | | 0.08 | mg/l |
| Sodium, Na | | 84.8 | mg/l |
| Turbidity | | <1 | NTU |
| Total Hardness, $CaCO_3$ | | 222 | mg/l |
| Magnesium Hardness, $CaCO_3$ | | 58.9 | mg/l |
| Calcium Hardness, $CaCO_3$ | | 163 | mg/l |
| Calcium, Ca | | 65.2 | mg/l |
| Magnesium, Mg | | 14.3 | mg/l |

## QUALITY CONTROL DATA SHEET

DUPLICATES:

| PARAMETER | % DIFFERENCE | DATE | ANALYST |
|---|---|---|---|
| Phenol | 2 | 02-27-89 | J.B. |
| 2-Chlorophenol | 8 | 02-27-89 | J.B. |
| 1,4-Dichlorobenzene | 10 | 02-27-89 | J.B. |
| N-Nitroso-Di-n-Propylamine | 17 | 02-27-89 | J.B. |
| 1,2,4-Trichlorobenzene | 4 | 02-27-89 | J.B. |
| 4-Chloro-3-Methylphenol | <1 | 02-27-89 | J.B. |
| Acenaphthene | 7 | 02-27-89 | J.B. |
| 4-Nitrophenol | 9 | 02-27-89 | J.B. |
| 2,4-Dinitrotoluene | 10 | 02-27-89 | J.B. |
| Pentachlorophenol | 22 | 02-27-89 | J.B. |
| Pyrene | 17 | 02-27-89 | J.B. |
| 1,1-Dichloroethene | 2 | 02-17-89 | D.C. |
| Trichloroethene | 10 | 02-17-89 | D.C. |
| Chlorobenzene | <1 | 02-17-89 | D.C |
| Toluene | 2 | 02-17-89 | D.C. |
| Benzene | 6 | 02-17-89 | D.C. |
| Gamma-BHC | 9 | 02-27-89 | J.B. |
| Endrin | 1 | 02-27-89 | J.B. |
| 4,4'-DDT | 28 | 02-27-89 | J.B. |
| Diazinon | 13 | 03-01-89 | J.B. |
| Ethylene Dibromide | 2 | 02-18-89 | J.B. |
| Temik | 8 | 03-06-89 | J.B. |
| Selenium | <1 | 02-22-89 | J.C. |
| Mercury | <1 | 02-21-89 | J.C. |
| Arsenic | <1 | 02-23-89 | J.C. |
| Lead | <1 | 02-21-89 | A.H. |
| Calcium | 3 | 02-23-89 | A.H. |
| Mercury | 2 | 02-23-89 | A.H. |
| Barium | <1 | 02-23-89 | A.H. |
| Chromium | <1 | 02-24-89 | C.G. |
| Silver | 1 | 02-25-89 | C.G. |
| Sodium | <1 | 03-01-89 | J.C. |

## QUALITY CONTROL DATA SHEET

DUPLICATES:

| PARAMETER | % DIFFERENCE | DATE | ANALYST |
|---|---|---|---|
| Color | <1 | 02-17-89 | D.A. |
| Odor | <1 | 02-18-89 | D.A. |
| Turbidity | <1 | 02-18-89 | D.A. |
| Total Alkalinity | <1 | 02-18-89 | D.A. |
| pH | <1 | 02-18-89 | D.A. |
| MBAS | 2 | 02-19-89 | D.A. |
| Chloride | <1 | 02-20-89 | C.G. |
| Nitrate Nitrogen | <1 | 02-17-89 | C.F. |
| Nitrite Nitrogen | <1 | 02-17-89 | C.F. |
| Hydrogen Sulfide | <1 | 02-20-89 | P.S. |
| Sulfate | 4 | 02-20-89 | C.G. |
| Specific Conductance | 2 | 02-20-89 | D.A. |
| TDS | 2 | 02-20-89 | P.S. |
| Fluoride | <1 | 02-21-89 | P.S. |
| Gross Alpha | <1 | 02-23-89 | G.T./J.B. |
| Copper | <1 | 02-23-89 | A.H. |
| Iron | 2 | 02-23-89 | A.H. |
| Manganese | <1 | 02-23-89 | A.H. |
| Zinc | <1 | 02-23-89 | A.H. |

## QUALITY CONTROL DATA SHEET

SPIKES:

| PARAMETER | % RECOVERY | DATE | ANALYST |
|---|---|---|---|
| Phenol | 44/45 | 02-27-89 | J.B. |
| 2-Chlorophenol | 41/44 | 02-27-89 | J.B. |
| 1,4-Dichlorobenzene | 39/43 | 02-27-89 | J.B. |
| N-Nitroso-Di-n-Propylamine | 49/58 | 02-27-89 | J.B. |
| 1,2,4-Trichlorobenzene | 54/52 | 02-27-89 | J.B. |
| 4-Chloro-3-Methylphenol | 49/49 | 02-27-89 | J.B. |
| Acenaphthene | 43/46 | 02-27-89 | J.B. |
| 4-Nitrophenol | 33/36 | 02-27-89 | J.B. |
| 2,4-Dinitrotoluene | 50/55 | 02-27-89 | J.B. |
| Pentachlorophenol | 41/51 | 02-27-89 | J.B. |
| Pyrene | 50/59 | 02-27-89 | J.B. |
| 1,1-Dichloroethene | 80/82 | 02-17-89 | D.C. |
| Trichloroethene | 98/108 | 02-17-89 | D.C. |
| Chlorobenzene | 102/102 | 02-17-89 | D.C |
| Toluene | 98/96 | 02-17-89 | D.C. |
| Benzene | 104/98 | 02-17-89 | D.C. |
| Gamma-BHC | 93/102 | 02-27-89 | J.B. |
| Endrin | 72/71 | 02-27-89 | J.B. |
| 4,4'-DDT | 101/134 | 02-27-89 | J.B. |
| Diazinon | 80/91 | 03-01-89 | J.B. |
| Ethylene Dibromide | 99/101 | 02-18-89 | J.B. |
| Temik | 78/85 | 03-06-89 | J.B. |
| Selenium | 105 | 02-22-89 | J.C. |
| Mercury | 103 | 02-21-89 | J.C. |
| Arsenic | 97 | 02-23-89 | J.C. |
| Lead | 102 | 02-21-89 | A.H. |
| Mercury | 95 | 02-23-89 | A.H. |
| Calcium | 96 | 02-23-89 | A.H. |
| Barium | 103 | 02-23-89 | A.H. |
| Chromium | 103 | 02-24-89 | C.G. |
| Silver | 107 | 02-25-89 | C.G. |
| Sodium | 105 | 03-01-89 | J.C. |

## QUALITY CONTROL DATA SHEET

**SPIKES:**

| PARAMETER | % RECOVERY | DATE | ANALYST |
|---|---|---|---|
| Color | N/A | | |
| Odor | N/A | | |
| Turbidity | N/A | | |
| Total Alkalinity | 93/93 | 02-18-89 | D.A. |
| pH | N/A | | |
| MBAS | 102/100 | 02-19-89 | D.A. |
| Chloride | 99/99 | 02-20-89 | C.G. |
| Nitrate Nitrogen | 98/98 | 02-17-89 | C.F. |
| Nitrite Nitrogen | 96/96 | 02-17-89 | C.F. |
| Hydrogen Sulfide | 100/100 | 02-20-89 | P.S. |
| Sulfate | 101/98 | 02-20-89 | C.G. |
| Specific Conductance | 95/95 | 02-20-89 | D.A. |
| TDS | 111/111 | 02-20-89 | P.S. |
| Fluoride | 98 | 02-21-89 | P.S. |
| Gross Alpha | 88 | 02-23-89 | G.T./J.B. |
| Copper | 100 | 02-23-89 | A.H. |
| Iron | 104 | 02-23-89 | A.H. |
| Manganese | 107 | 02-23-89 | A.H. |
| Zinc | 104 | 02-23-89 | A.H. |

HRS

State of Florida
Department of Health and Rehabilitative Services
Office of Laboratory Services
P.O. Box 210
Jacksonville, Florida 32231

FOR LAB USE ONLY
DEC 4 2 18 PM '91
BY:
12/5

# DRINKING WATER
# BACTERIOLOGICAL ANALYSIS

SYSTEM NAME: Sugar Mill CC SYSTEM I.D. NO: 3641296 SYSTEM PHONE #: 904-427-83[illegible]

ADDRESS: Rte Clubhouse Blvd New Smyrna Fl. 32168 COUNTY: Volusia DER DISTRICT: _____

COLLECTOR: Pratt COLLECTOR PHONE #: 904-423-8315

SAMPLE SITE (Locality or Subdivision): Sand

DATE AND TIME COLLECTED: 12-4-91 @ 7:45 AM

TYPE OF SUPPLY(Circle one): (Community water system) Noncommunity water system Nontransient - noncommunity water system
Private well Swimming pool Bottled water Other public water system

TYPE OF SAMPLE(Circle one): (Compliance) Repeat Replacement Main clearance Well survey Other _____ (Specify)
(Check Box)
[ ] Distribution
[ ] Raw
(Check Box)
[ ] TNTC or C
[ ] Turbid
[ ]

REMARKS:

| TO BE COMPLETED BY COLLECTOR OF SAMPLE | | | | TO BE COMPLETED BY LAB | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | ANALYSIS METHOD: | MF | MTF | MMO-MUG | PA |
| COLL. NO. | SAMPLE POINT (Specific Address) | Cl RES* | pH | SAMPLE NUMBER | NON COLIFORM | *TOTAL | CONFIRM TOTAL | CONFIRM FECAL |
| #1 | Well #1 | 0 | 7.6 | 051878 | | A | | |
| 2 | Well #2 | 0 | 7.6 | 051879 | | A | | (A) |
| 3 | Well #3 | 0 | 7.6 | 051880 | | A | | |
| 4 | Well #4 | 0 | 7.6 | 051881 | | A | | |
| 5 | Ground Storage | 0.3 | 8.0 | 051882 | | A | | |
| 6 | Hydro Tank | 1.0 | 8.4 | 051883 | | A | | |
| | | | | | | | | |

* Results in this column are preliminary. Fecal coliform confirmation on community and noncommunity water systems and total coliform confirmation on all types of water systems will follow in 24-48 hours.

P - Coliforms are present C - Confluent growth TA - Turbid, Absence of gas or acid
A - Coliforms are absent TNTC - Too numerous to count

IMPORTANT: SEE REMARKS BY PROGRAM REVIEWER.

RECEIVED
DEC 9 1991
VOL. CO. HEALTH DEPT.

NAME AND MAILING ADDRESS OF PERSON/FIRM TO RECEIVE REPORT

Southern States
355 Enterprise Rd
Deltona Fl 32725

( )
(✓) SATISFACTORY
( ) INCOMPLETE COLLECTION INFORMATION
( ) REPEAT SAMPLES
( ) REPLACEMENT SAMPLES

REVIEWING OFFICIAL: Clifford Pratt

TITLE: Environmental Specialist

HRS Form 868, Jan 91 (Obsolete previous editions which may not be used) [State Number: 3710-000-0868-1]

State of Florida
Department of Health and Rehabilitative Services
Office of Laboratory Services
P.O. Box 210
Jacksonville, Florida 32231

FOR LAB USE ONLY
DEC 4 2 18 PM '91
BY D. PAPANIS
12/5

# DRINKING WATER BACTERIOLOGICAL ANALYSIS

SYSTEM NAME: Lugo Mill. C.C. SYSTEM I.D. NO: 3641296 SYSTEM PHONE #: 427-8719
ADDRESS: 8e Clubhouse Blvd N.S.B. 32168 COUNTY: Volusia DER DISTRICT: _____
COLLECTOR: Rest COLLECTOR PHONE #: 427-8719
SAMPLE SITE (Locality or Subdivision): Pine Valley Pool St Andrews
DATE AND TIME COLLECTED: 12-4-91 @ 7:45 Am

TYPE OF SUPPLY(Circle one): (Community water system) Noncommunity water system Nontransient - noncommunity water system
Private well Swimming pool Bottled water Other public water system

TYPE OF SAMPLE(Circle one): (Compliance) Repeat Replacement Main clearance Well survey Other _____ (Specify)
(Check Box) (Check Box)
[X] Distribution [ ] TNTC or C
[ ] Raw [ ] Turbid
[ ]

REMARKS:

| TO BE COMPLETED BY COLLECTOR OF SAMPLE | | | | TO BE COMPLETED BY LAB | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | ANALYSIS METHOD: MF | | MTF | MMO-MUG | PA |
| COLL. NO. | SAMPLE POINT (Specific Address) | Cl RES'D | pH | SAMPLE NUMBER | NON COLIFORM | *TOTAL | CONFIRM TOTAL | CONFIRM FECAL |
| #7 | Pine Valley pool top | 1.0 | 8.4 | 0[illegible] | | A | | |
| #8 | St Andrew pool top | 1.0 | 8.4 | G[illegible]76 | | A | | |
| #9 | 112 Lock Lenode. | " | 8. | 0[illegible]77 | | A | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

* Results in this column are preliminary. Fecal coliform confirmation on community and noncommunity water systems and total coliform confirmation on all types of water systems will follow in 24-48 hours.

P - Coliforms are present C - Confluent growth TA - Turbid, Absence of gas or acid
A - Coliforms are absent TNTC - Too numerous to count

RECOMMENDATIONS/REMARKS BY PROGRAM REVIEWER

RECEIVED
DEC 9 1991
VOL. CO. HEALTH DEPT.

NAME AND MAILING ADDRESS OF PERSON/FIRM TO RECEIVE REPORT -
Southern States
255 Enterprise Rd
Deltona Fl. 32725

( )
(X) SATISFACTORY
( ) INCOMPLETE COLLECTION INFORMATION
( ) REPEAT SAMPLES
( ) REPLACEMENT SAMPLES

REVIEWING OFFICIAL: [signature]
TITLE: Environmental Specialist

HRS Form 665, Jan 91 (Obsolete previous editions which may not be used) (Stock Number: 5160-001-0665-4)

# Sugar Mill Woods - 989

**Citrus County (SSU)**

**Water**

## - 1992 FPSC Filing -

# Sugar Mill Woods

## Chemical Analyses

The most recent chemical analyses for the water system conducted by a certified laboratory covering the inorganic, organic, turbidity, microbiological, radionuclide, secondary and unregulated contaminants.

| Chemical Analysis | Date Taken |
|---|---|
| Inorganic | 12/89 |
| Organic | 12/89 |
| Volatile Organic Chemicals | 2/90 |
| | 5/90 |
| | 9/90 |
| | 12/90 |
| Turbidity | 12/89 |
| Microbiological | 12/91 |
| Radionuclide | 12/89 |
| Secondary Contaminants | 12/89 |
| Unregulated Contaminants | 12/89 |

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.

Ph. (407) 339-5984
Fax (407) 260-6110

# FLOWERS CHEMICAL LABORATORIES, INC.

## ANALYTICAL & CONSULTING CHEMISTS

Received From:
Southern States Util
1000 Color Pl.
Apopka,FL 32703

Date Reported: Dec 8 1989

DHRS Lab# : 83139
DER Lab# : E83018

For: COMP. 1,2,5,6
Date Received: Nov16 1989 Lab Number : 14523

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 14523 |
|---|---|---|---|---|---|
| Turbidity | NTU | 0.05 | - | 1.62 | 0.15 |
| Arsenic | mg/L | 0.0005 | 98.3 | 1.97 | <0.00050 |
| Barium | mg/L | 0.01 | 104 | 2.15 | 0.01 |
| Cadmium | mg/L | 0.001 | 101 | 3.50 | <0.0010 |
| Chromium | mg/L | 0.005 | 101 | 2.22 | <0.0050 |
| Fluoride | mg/L | 0.005 | 97.4 | 2.40 | 0.098 |
| Lead | mg/L | 0.01 | 99.8 | 3.91 | 0.05 |
| Mercury | mg/L | 0.0002 | 97.5 | 4.42 | <0.00020 |
| Nitrate (as N) | mg/L | 0.013 | 98.1 | 1.90 | 2.50 |
| Selenium | mg/L | 0.0005 | 103 | 4.42 | <0.00050 |
| Silver | mg/L | 0.005 | 106 | 1.31 | <0.0050 |
| Sodium | mg/L | 0.002 | 109 | 3.33 | 3.46 |
| TTHM | mg/L | 0.001 | 104 | 3.54 | <0.0010 |
| Ethylene dibromide | mg/L | - | 98.5 | 0.37 | - |
| Para-dichlorobenzene | mg/L | 0.001 | 104 | 3.62 | <0.0010 |
| Vinyl chloride | mg/L | 0.001 | 102 | 3.48 | <0.0010 |
| 1,1,-dichloroethene | mg/L | 0.001 | 95.9 | 5.95 | <0.0010 |
| 1,2,-dichloroethane | mg/L | 0.001 | 99.3 | 0.97 | <0.0010 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 101 | 2.08 | <0.0010 |
| Carbon tetrachloride | mg/L | 0.001 | 99.1 | 2.78 | <0.0010 |
| Trichloroethene | mg/L | 0.001 | 105 | 5.11 | <0.0010 |
| Tetrachloroethene | mg/L | 0.001 | 101 | 4.21 | <0.0010 |
| Benzene | mg/L | 0.001 | 101 | 0.54 | <0.0010 |
| Endrin | mg/L | 0.000001 | 97.1 | 1.75 | <0.0000010 |
| Lindane | mg/L | 0.000001 | 100 | 1.71 | <0.0000010 |
| Methoxychlor | mg/L | 0.00001 | 98.3 | 1.60 | <0.000010 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



NEWBURYPORT & 2nd ST., P.O. BOX 150597, ALTAMONTE SPRINGS, FLA. 32715-0597

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.

Ph. (407) 339-5984
Fax (407) 260-6110

# FLOWERS CHEMICAL LABORATORIES, INC.

## ANALYTICAL & CONSULTING CHEMISTS

Received From:
Southern States Util
1000 Color Pl.
Apopka,FL 32703

Date Reported: Dec 8 1989

DHRS Lab# : 83139
DER Lab# : E83018

For: COMP. 1,2,5,6
Date Received: Nov16 1989 Lab Number : 14523

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 14523 |
|---|---|---|---|---|---|
| Toxaphene | mg/L | 0.0001 | 104 | 2.96 | <0.00010 |
| 2,4-D | mg/L | 0.00005 | 98.8 | 2.01 | <0.000050 |
| 2,4,5-TP (Silvex) | mg/L | 0.00002 | 95.0 | 1.62 | <0.000020 |
| Calcium | mg/L | 0.1 | 105 | 1.96 | 35.3 |
| Chloride | mg/L | 0.015 | 99.7 | 6.50 | 7.2 |
| Carbonate_CaCO3 | mg/L | 0.1 | | | 108.2 |
| Hydroxide_CaCO3 | mg/L | 0.1 | | | - |
| Copper | mg/L | 0.005 | 95.6 | 1.78 | <0.0050 |
| Bicarbonate _CaCO3 | mg/L | 0.1 | | | 107.7 |
| Carbonate_Alkalinity | mg/L | 0.1 | | | 0.6 |
| Hydrogen_Sulfide | mg/L | 0.5 | | | - |
| Iron | mg/L | 0.01 | 97.5 | 2.35 | <0.010 |
| Magnesium | mg/L | 0.01 | 96.3 | 1.44 | 6.4 |
| Manganese | mg/L | 0.005 | 97.5 | 1.05 | <0.0050 |
| Sulfate | mg/L | 0.2 | 94.0 | 1.00 | 10.6 |
| Zinc | mg/L | 0.001 | 102 | 0.82 | <0.0010 |
| Carbon_Dioxide | mg/L | 0.1 | | | 3.7 |
| Color | mg/L | 5 | - | - | <5 |
| Total_Hardness | mg/L | 0.1 | | | 114.5 |
| NCH_as_CaCO3 | mg/L | 0.1 | | | 6.2 |
| Odor(TON) | TON | 1 | - | - | <1 |
| Field_pH | pH | 0.01 | | | - |
| Lab_pH | pH | 0.01 | 100 | 0.75 | 7.7 |
| Alkalinity | mg/L | 0.1 | - | 9.50 | 108.2 |
| TDS | mg/L | 2.5 | 101 | 2.20 | 114.7 |
| Temperature | oC | 1 | | | 25 |

Data Release Authorization

Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



NEWBURYPORT & 2nd ST., P.O. BOX 150597, ALTAMONTE SPRINGS, FLA 32715-0597

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.

Ph. (407) 339-5984
Fax (407) 260-6110

# FLOWERS CHEMICAL LABORATORIES, INC.

## ANALYTICAL & CONSULTING CHEMISTS

Received From:
Southern States Util
1000 Color Pl.
Apopka,FL 32703

Date Reported: Dec 8 1989

DHRS Lab# : 83139
DER Lab# : E83018

For: COMP. 1,2,5,6
Date Received: Nov16 1989 Lab Number : 14523

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 14523 |
|---|---|---|---|---|---|
| Langelier_Index | LX | 0.01 | | | -0.09 |
| Saturation_Index | pHs | 0.01 | | | 7.85 |
| Stability_Index | pH | 0.01 | | | 7.95 |
| Foaming_Agents | mg/L | 0.1 | - | - | 0.1 |
| Field Chlorine | mg/L | 0.1 | | | - |
| Gross alpha incl. Ra | pCi/L | 1 | | | <1 |
| Chloromethane | mg/L | 0.001 | 102 | 3.48 | <0.0010 |
| Dichlorodifluorometh | mg/L | 0.001 | 102 | 3.48 | <0.0010 |
| Bromomethane | mg/L | 0.001 | 102 | 3.48 | <0.0010 |
| Chloroethane | mg/L | 0.001 | 102 | 1.62 | <0.0010 |
| Trichlorofluorometha | mg/L | 0.001 | 106 | 4.48 | <0.0010 |
| trans-1,3,-dichlorop | mg/L | 0.001 | 103 | 3.62 | <0.0010 |
| cis-1,3-dichloroprop | mg/L | 0.001 | 104 | 3.14 | <0.0010 |
| Methyl-tert-butyleth | mg/L | 0.001 | 97.8 | 1.40 | <0.0010 |
| cis-1,2-dichloroethe | mg/L | 0.001 | 102 | 3.48 | <0.0010 |
| Dibromomethane | mg/L | 0.001 | 102 | 3.48 | <0.0010 |
| 1,1-dichloropropene | mg/L | 0.001 | 102 | 3.48 | <0.0010 |
| 1,3-dichloropropane | mg/L | 0.001 | 102 | 3.48 | <0.0010 |
| 1,2,3-trichloropropa | mg/L | 0.001 | 102 | 3.48 | <0.0010 |
| 2,2-dichloropropane | mg/L | 0.001 | 102 | 3.48 | <0.0010 |
| 1,2-dibromo-3-chloro | mg/L | 0.001 | 107 | 4.20 | <0.0010 |
| Chloroform | mg/L | 0.001 | 108 | 6.24 | <0.0010 |
| Bromoform | mg/L | 0.001 | 104 | 3.14 | <0.0010 |
| Bromodichloromethane | mg/L | 0.001 | 102 | 1.45 | <0.0010 |
| Dibromochloromethane | mg/L | 0.001 | 103 | 3.32 | <0.0010 |
| p-xylene | mg/L | 0.001 | 106 | 5.45 | <0.0010 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



NEWBURYPORT & 2nd ST., P.O. BOX 150597, ALTAMONTE SPRINGS, FLA. 32715-0597

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.

Ph. (407) 339-5984
Fax (407) 260-6110

# FLOWERS CHEMICAL LABORATORIES, INC.

## ANALYTICAL & CONSULTING CHEMISTS

Received From:
Southern States Util
1000 Color Pl.
Apopka,FL 32703

Date Reported: Dec 8 1989

DHRS Lab# : 83139
DER Lab# : EB3018

For: COMP. 1,2,5,6
Date Received: Nov16 1989 Lab Number : 14523

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 14523 |
|---|---|---|---|---|---|
| Methylene chloride | mg/L | 0.001 | 94.2 | 3.55 | <0.0010 |
| o-chlorotoluene | mg/L | 0.001 | 102 | 3.48 | <0.0010 |
| p-chlorotoluene | mg/L | 0.001 | 102 | 3.48 | <0.0010 |
| m-dichlorobenzene | mg/L | 0.001 | 102 | 1.54 | <0.0010 |
| o-dichlorobenzene | mg/L | 0.001 | 106 | 3.27 | <0.0010 |
| 1,1-dichloroethane | mg/L | 0.001 | 102 | 2.20 | <0.0010 |
| trans-1,2-dichloroet | mg/L | 0.001 | 94.6 | 3.94 | <0.0010 |
| 1,2-dichloropropane | mg/L | 0.001 | 104 | 2.47 | <0.0010 |
| 1,1,2-trichloroethan | mg/L | 0.001 | 105 | 3.11 | <0.0010 |
| 1,1,1,2-tetrachloroe | mg/L | 0.001 | 102 | 3.48 | <0.0010 |
| 1,1,2,2-tetrachloroe | mg/L | 0.001 | 101 | ### | <0.0010 |
| Chlorobenzene | mg/L | 0.001 | 101 | 1.37 | <0.0010 |
| Toluene | mg/L | 0.001 | 101 | 0.80 | <0.0010 |
| Ethylbenzene | mg/L | 0.001 | 97.4 | 1.54 | <0.0010 |
| Bromobenzene | mg/L | 0.001 | 102 | 3.48 | <0.0010 |
| m-xylene | mg/L | 0.001 | 103 | 4.10 | <0.0010 |
| Styrene | mg/L | 0.001 | 102 | 3.48 | <0.0010 |
| o-xylene | mg/L | 0.001 | 106 | 5.45 | <0.0010 |
| Dalapon | mg/L | 0.000001 | 95.9 | 4.92 | <0.0000010 |
| Oxamyl (Vydate) | mg/L | 0.002 | 93.5 | 5.94 | <0.0020 |
| Simazine | mg/L | 0.007 | 102 | 2.33 | <0.0070 |
| Picloram | mg/L | 0.00007 | 97.3 | 2.84 | <0.000070 |
| Dinoseb | mg/L | 0.00001 | 104 | 5.10 | <0.000010 |
| Aldicarb sulfoxide | mg/L | 0.002 | 98.3 | 1.50 | <0.0020 |
| Aldicarb sulfone | mg/L | 0.002 | 103 | 2.59 | <0.0020 |
| Metolachlor | mg/L | 0.0005 | 104 | 3.82 | <0.00050 |

Data Release Authorization

Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



NEWBURYPORT & 2nd ST., P.O. BOX 150597, ALTAMONTE SPRINGS, FLA. 32715-0597

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.

Ph. (407) 339-5984
Fax (407) 260-6110

# FLOWERS CHEMICAL LABORATORIES, INC.

## ANALYTICAL & CONSULTING CHEMISTS

Received From:
Southern States Util
1000 Color Pl.
Apopka,FL 32703

Date Reported: Dec 8 1989

DHRS Lab# : 83139
DER Lab# : E83018

For: COMP. 1,2,5,6
Date Received: Nov16 1989 Lab Number : 14523

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 14523 |
|---|---|---|---|---|---|
| Carbofuran | mg/L | 0.001 | 102 | 1.35 | <0.0010 |
| Aldicarb | mg/L | 0.002 | 101 | 1.19 | <0.0020 |
| Atrazine | mg/L | 0.002 | 98.3 | 1.33 | <0.0020 |
| Alachlor (Lasso) | mg/L | 0.0002 | 95.8 | 3.66 | <0.00020 |
| Heptachlor | mg/L | 0.000005 | 101 | 1.08 | <0.0000050 |
| Aldrin | mg/L | 0.00007 | 98.8 | 1.18 | <0.000070 |
| Dieldrin | mg/L | 0.00001 | 98.4 | 2.96 | <0.000010 |
| Dicamba | mg/L | 0.00001 | 100 | 3.26 | <0.000010 |
| Chlordane | mg/L | 0.00001 | 102 | 2.06 | <0.000010 |
| Pentachlorophenol | mg/L | 0.005 | 103 | 2.69 | <0.0050 |
| Hexachlorocyclopenta | mg/L | 0.005 | 97.5 | 2.05 | <0.0050 |
| Dioxin | mg/L | 0.00001 | 103 | 2.83 | <0.000010 |
| Isophorone | mg/L | 0.005 | 97.5 | 2.05 | <0.0050 |
| 2,4-dinitrotoluene | mg/L | 0.005 | 97.5 | 2.05 | <0.0050 |
| Dimethylphthalate | mg/L | 0.005 | 97.5 | 2.05 | <0.0050 |
| Diethylphthalate | mg/L | 0.005 | 97.5 | 2.05 | <0.0050 |
| Di-n-butylphthalate | mg/L | 0.005 | 97.5 | 2.05 | <0.0050 |
| Butyl benzyl phthala | mg/L | 0.005 | 97.5 | 2.05 | <0.0050 |
| Bis(2-ethylhexyl)pht | mg/L | 0.005 | 97.5 | 2.05 | <0.0050 |
| 1,2,4-trichlorobenze | mg/L | 0.005 | 97.5 | 2.05 | <0.0050 |
| PCB-1016 | mg/L | 0.0001 | 102 | 2.63 | <0.00010 |
| PCB-1221 | mg/L | 0.0001 | 102 | 2.63 | <0.00010 |
| PCB-1232 | mg/L | 0.0001 | 102 | 2.63 | <0.00010 |
| PCB-1242 | mg/L | 0.0001 | 102 | 2.63 | <0.00010 |
| PCB-1248 | mg/L | 0.0001 | 102 | 2.63 | <0.00010 |
| PCB-1254 | mg/L | 0.0001 | 102 | 2.63 | <0.00010 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



NEWBURYPORT & 2nd ST., P.O. BOX 150597, ALTAMONTE SPRINGS, FLA. 32715-0597

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.

Ph. (407) 339-5984
Fax (407) 260-6110

# FLOWERS CHEMICAL LABORATORIES, INC.

## ANALYTICAL & CONSULTING CHEMISTS

Received From:
Southern States Util
1000 Color Pl.
Apopka,FL 32703

Date Reported: Dec 8 1989

DHRS Lab# : 83139
DER Lab# : E83018

For: COMP. 1,2,5,6
Date Received: Nov16 1989 Lab Number : 14523

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 14523 |
|---|---|---|---|---|---|
| PCB-1260 | mg/L | 0.0001 | 102 | 2.63 | <0.00010 |
| Dioctylphthalate | mg/L | 0.005 | 97.5 | 2.05 | <0.0050 |
| 2-chlorophenol | mg/L | 0.005 | 94.1 | 1.31 | <0.0050 |
| 2-methyl-4,6-dinitop | mg/L | 0.005 | 94.1 | 1.31 | <0.0050 |
| Phenol | mg/L | 0.005 | 94.1 | 1.31 | <0.0050 |
| 2,4,6-trichloropheno | mg/L | 0.005 | 94.1 | 1.31 | <0.0050 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



NEWBURYPORT & 2nd ST., P.O. BOX 150597, ALTAMONTE SPRINGS, FLA. 32715-0597

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 6091735
Public Water System Name: Southern States Utilities
Public Water System Type (check one):
(X)Community ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyzed: Turbidity_X_;Inorganic_X_; Trihalomethane _X_;
Volatile Organic_X_; Organic Chemical_X_; Secondary Chemical_X_; Radiological_X_;
Unregulated Organic Purgeable_X_; Unregulated Organic Pesticide_X_;
Unregulated Base Neutral Extractable_X_;Unregulated Acid Extractable__X_;
Subcontracted Lab Certification Number (if any For Radiological PArameters: HRS13186

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number: 14523
Sample Location (be specific): Sugar Mill Woods Citrus County
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composite
( )Clearance ( )Maximum Residence Time ( )Plant Tap
( )Raw ( )Well ( )Resample
(X)Special Toxic Drinking Water
Sampler Name, Title Phone: John Laverone Dist. Supervisor
904 382 4442

**ANALYSIS INFORMATION**
Extraction Date 12/6/89
Laboratory Contact Dr. J.S. Flowers
Resample Requested? (check one)( )Yes (X) No
ANALYSIS SUBMITTED: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature: _____

Name Dr Jefferson S Flowers

Title Technical Director

Laboratory Flowers Chemical Laboratories,Inc.

Date 12/7/89

Mail Results to the Appropriate DER or ACPHU Office:

_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01
Effective 06/01/89

Sample Interpretation (check one):
() Satisfactory () Unsatisfactory

| | | | | | | |
|---|---|---|---|---|---|---|
| 2390 | PCB-1221 | 14523 | <0.0001 | EPA505 | 0.0001 | 12/6/89 |
| 2392 | PCB-1232 | 14523 | <0.0001 | EPA505 | 0.0001 | 12/6/89 |
| 2394 | PCB-1242 | 14523 | <0.0001 | EPA505 | 0.0001 | 12/6/89 |
| 2396 | PCB-1248 | 14523 | <0.0001 | EPA505 | 0.0001 | 12/6/89 |
| 2398 | PCB-1254 | 14523 | <0.0001 | EPA505 | 0.0001 | 12/6/89 |
| 2400 | PCB-1260 | 14523 | <0.0001 | EPA505 | 0.0001 | 12/6/89 |
| 9089 | Dioctylphthalate | 14523 | <0.005 | EPA606 | 0.005 | 12/6/89 |

Comments:

**Unregulated Acid Extractable Analysis**
**17-550.410(4)**
**(PWS037)**

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L) | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 9108 | 2-chlorophenol | 14523 | | <0.005 | EPA604 | 0.005 | 12/6/89 |
| 9112 | 2-methyl-4,6-dinitophenol | 14523 | | <0.005 | EPA604 | 0.005 | 12/6/89 |
| 9115 | Phenol | 14523 | | <0.005 | EPA604 | 0.005 | 12/6/89 |
| 9116 | 2,4,6-trichlorophenol | 14523 | | <0.005 | EPA604 | 0.005 | 12/6/89 |

Comments:

| | | | | | | |
|---|---|---|---|---|---|---|
| 2991 | Toluene | 14523 | | <0.001 | EPA502.2 | 0.001 | 11/18/89 |
| 2992 | Ethylbenzene | 14523 | | <0.001 | EPA502.2 | 0.001 | 11/18/89 |
| 2993 | Bromobenzene | 14523 | | <0.001 | EPA502.2 | 0.001 | 11/18/89 |
| 2995 | m-xylene | 14523 | | <0.001 | EPA502.2 | 0.001 | 11/18/89 |
| 2996 | Styrene | 14523 | | <0.001 | EPA502.2 | 0.001 | 11/18/89 |
| 2997 | o-xylene | 14523 | | <0.001 | EPA502.2 | 0.001 | 11/18/89 |

Comments:

**Unregulated Organic Pesticide Analysis**
**17-550.410(2)**
**(PWS035)**

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L) | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2031 | Dalapon | 14523 | | <.000001 | EPA515 | .000001 | 12/6/89 |
| 2036 | Oxamyl (Vydate) | 14523 | | <0.002 | EPA531 | 0.002 | 11/28/89 |
| 2037 | Simazine | 14523 | | <0.007 | EPA505 | 0.007 | 12/6/89 |
| 2040 | Picloram | 14523 | | <0.00007 | EPA515 | 0.00007 | 12/6/89 |
| 2041 | Dinoseb | 14523 | | <0.00001 | EPA515 | 0.00001 | 12/6/89 |
| 2043 | Aldicarb sulfoxide | 14523 | | <0.002 | EPA531 | 0.002 | 11/28/89 |
| 2044 | Aldicarb sulfone | 14523 | | <0.002 | EPA531 | 0.002 | 11/28/89 |
| 2045 | Metolachlor | 14523 | | <0.0005 | EPA505 | 0.0005 | 12/6/89 |
| 2046 | Carbofuran | 14523 | | <0.001 | EPA531 | 0.001 | 11/28/89 |
| 2047 | Aldicarb | 14523 | | <0.002 | EPA531 | 0.002 | 11/28/89 |
| 2050 | Atrazine | 14523 | | <0.002 | EPA505 | 0.002 | 12/6/89 |
| 2051 | Alachlor (Lasso) | 14523 | | <0.0002 | EPA505 | 0.0002 | 12/6/89 |
| 2065 | Heptachlor | 14523 | | <.000005 | EPA508 | .000005 | 12/6/89 |
| 2356 | Aldrin | 14523 | | <0.00007 | EPA508 | 0.00007 | 12/6/89 |
| 2364 | Dieldrin | 14523 | | <0.00001 | EPA508 | 0.00001 | 12/6/89 |
| 2440 | Dicamba | 14523 | | <0.00001 | EPA515 | 0.00001 | 12/6/89 |
| 2959 | Chlordane | 14523 | | <0.00001 | EPA508 | 0.00001 | 12/6/89 |
| 9114 | Pentachlorophenol | 14523 | | <0.005 | EPA515 | 0.005 | 12/6/89 |

Comments:

**Unregulated Base Neutral Extractable Analysis**
**17-550.410(3)**
**(PWS036)**

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L) | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2042 | Hexachlorocyclopentadiene | 14523 | | <0.005 | EPA612 | 0.005 | 12/6/89 |
| 2063 | Dioxin | 14523 | | <0.00001 | EPA613 | 0.00001 | 12/6/89 |
| 2262 | Isophorone | 14523 | | <0.005 | EPA609 | 0.005 | 12/6/89 |
| 2270 | 2,4-dinitrotoluene | 14523 | | <0.005 | EPA609 | 0.005 | 12/6/89 |
| 2282 | Dimethylphthalate | 14523 | | <0.005 | EPA606 | 0.005 | 12/6/89 |
| 2284 | Diethylphthalate | 14523 | | <0.005 | EPA606 | 0.005 | 12/6/89 |
| 2290 | Di-n-butylphthalate | 14523 | | <0.005 | EPA606 | 0.005 | 12/6/89 |
| 2294 | Butyl benzyl phthalate | 14523 | | <0.005 | EPA606 | 0.005 | 12/6/89 |
| 2298 | Bis(2-ethylhexyl)phthalate | 14523 | | <0.005 | EPA606 | 0.005 | 12/6/89 |
| 2378 | 1,2,4-trichlorobenzene | 14523 | | <0.005 | EPA612 | 0.005 | 12/6/89 |
| 2388 | PCB-1016 | 14523 | | <0.0001 | EPA505 | 0.0001 | 12/6/89 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 2909 | Foaming Agents | 14523 | 0.5 | 0.1 | EPA425.1 | 0.1 | 12/1/89 |
| | Field Chlorine | 14523 | | - | - | 0.1 | |

Comments:

Radiological Analysis
17-550.310(5)
(PWS033)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(pCi/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 4000 | Gross alpha incl. Ra & U | 14523 | 5 | <1 | EPA900 | 1 | 12/4/89 |

Comments:

Unregulated Organic Purgeable Analysis
17-550.410(1)
(PWS034)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L) | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2210 | Chloromethane | 14523 | | <0.001 | EPA502.2 | 0.001 | 11/18/89 |
| 2212 | Dichlorodifluoromethane | 14523 | | <0.001 | EPA502.2 | 0.001 | 11/18/89 |
| 2214 | Bromomethane | 14523 | | <0.001 | EPA502.2 | 0.001 | 11/18/89 |
| 2216 | Chloroethane | 14523 | | <0.001 | EPA502.2 | 0.001 | 11/18/89 |
| 2218 | Trichlorofluoromethane | 14523 | | <0.001 | EPA502.2 | 0.001 | 11/18/89 |
| 2224 | trans-1,3,-dichloropropene | 14523 | | <0.001 | EPA502.2 | 0.001 | 11/18/89 |
| 2228 | cis-1,3-dichloropropene | 14523 | | <0.001 | EPA502.2 | 0.001 | 11/18/89 |
| 2251 | Methyl-tert-butylether | 14523 | | <0.001 | EPA502.2 | 0.001 | 11/18/89 |
| 2380 | cis-1,2-dichloroethene | 14523 | | <0.001 | EPA502.2 | 0.001 | 11/18/89 |
| 2408 | Dibromomethane | 14523 | | <0.001 | EPA502.2 | 0.001 | 11/18/89 |
| 2410 | 1,1-dichloropropene | 14523 | | <0.001 | EPA502.2 | 0.001 | 11/18/89 |
| 2412 | 1,3-dichloropropane | 14523 | | <0.001 | EPA502.2 | 0.001 | 11/18/89 |
| 2414 | 1,2,3-trichloropropane | 14523 | | <0.001 | EPA502.2 | 0.001 | 11/18/89 |
| 2416 | 2,2-dichloropropane | 14523 | | <0.001 | EPA502.2 | 0.001 | 11/18/89 |
| 2931 | 1,2-dibromo-3-chloropropan | 14523 | | <0.001 | EPA502.2 | 0.001 | 11/18/89 |
| 2941 | Chloroform | 14523 | | <0.001 | EPA502.2 | 0.001 | 11/18/89 |
| 2942 | Bromoform | 14523 | | <0.001 | EPA502.2 | 0.001 | 11/18/89 |
| 2943 | Bromodichloromethane | 14523 | | <0.001 | EPA502.2 | 0.001 | 11/18/89 |
| 2944 | Dibromochloromethane | 14523 | | <0.001 | EPA502.2 | 0.001 | 11/18/89 |
| 2962 | p-xylene | 14523 | | <0.001 | EPA502.2 | 0.001 | 11/18/89 |
| 2964 | Methylene chloride | 14523 | | <0.001 | EPA502.2 | 0.001 | 11/18/89 |
| 2965 | o-chlorotoluene | 14523 | | <0.001 | EPA502.2 | 0.001 | 11/18/89 |
| 2966 | p-chlorotoluene | 14523 | | <0.001 | EPA502.2 | 0.001 | 11/18/89 |
| 2967 | m-dichlorobenzene | 14523 | | <0.001 | EPA502.2 | 0.001 | 11/18/89 |
| 2968 | o-dichlorobenzene | 14523 | | <0.001 | EPA502.2 | 0.001 | 11/18/89 |
| 2978 | 1,1-dichloroethane | 14523 | | <0.001 | EPA502.2 | 0.001 | 11/18/89 |
| 2979 | trans-1,2-dichloroethylene | 14523 | | <0.001 | EPA502.2 | 0.001 | 11/18/89 |
| 2983 | 1,2-dichloropropane | 14523 | | <0.001 | EPA502.2 | 0.001 | 11/18/89 |
| 2985 | 1,1,2-trichloroethane | 14523 | | <0.001 | EPA502.2 | 0.001 | 11/18/89 |
| 2986 | 1,1,1,2-tetrachloroethane | 14523 | | <0.001 | EPA502.2 | 0.001 | 11/18/89 |
| 2988 | 1,1,2,2-tetrachloroethane | 14523 | | <0.001 | EPA502.2 | 0.001 | 11/18/89 |
| 2989 | Chlorobenzene | 14523 | | <0.001 | EPA502.2 | 0.001 | 11/18/89 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 2984 | Trichloroethene | 14523 | 0.003 | <0.001 | EPA502.2 | 0.001 | 11/18/89 |
| 2987 | Tetrachloroethene | 14523 | 0.003 | <0.001 | EPA502.2 | 0.001 | 11/18/89 |
| 2990 | Benzene | 14523 | 0.001 | <0.001 | EPA502.2 | 0.001 | 11/18/89 |

Comments:

**Organic Chemical Analysis**
**17-550.310(2)(a)(b)**
**(PWS029)**

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L) | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2005 | Endrin | 14523 | 0.0002 | <.000001 | EPA508 | .000001 | 12/6/89 |
| 2010 | Lindane | 14523 | 0.004 | <.000001 | EPA508 | .000001 | 12/6/89 |
| 2015 | Methoxychlor | 14523 | 0.1 | <0.00001 | EPA508 | 0.00001 | 12/6/89 |
| 2020 | Toxaphene | 14523 | 0.005 | <0.0001 | EPA508 | 0.0001 | 12/6/89 |
| 2105 | 2,4-D | 14523 | 0.1 | <0.00005 | EPA515 | 0.00005 | 12/6/89 |
| 2110 | 2,4,5-TP (Silvex) | 14523 | 0.01 | <0.00002 | EPA515 | 0.00002 | 12/6/89 |

Comments:

**Secondary Chemical Analysis**
**17-550.320**
**(PWS031)**

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L) | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1016 | Calcium | 14523 | | 35.4 | EPA215.1 | 0.1 | 11/21/89 |
| 1017 | Chloride | 14523 | 250 | 7.2 | EPA300.0 | 0.015 | 12/4/89 |
| 1019 | Carbonate_CaCO3 | 14523 | | 108.3 | SM314A | 0.1 | |
| 1021 | Hydroxide_CaCO3 | 14523 | | 0.0 | SM406C | 0.1 | |
| 1022 | Copper | 14523 | 1 | <0.005 | EPA220.1 | 0.005 | 11/20/89 |
| 1023 | Bicarbonate _CaCO3 | 14523 | | 107.7 | SM406C | 0.1 | |
| 1026 | Carbonate_Alkalinity | 14523 | | 0.6 | SM406C | 0.1 | |
| 1027 | Hydrogen_Sulfide | 14523 | | - | EPA376.1 | 0.5 | |
| 1028 | Iron | 14523 | 0.3 | <0.01 | EPA236.1 | 0.01 | 11/20/89 |
| 1031 | Magnesium | 14523 | | 6.4 | EPA242.1 | 0.01 | 11/21/89 |
| 1032 | Manganese | 14523 | 0.05 | <0.005 | EPA243.1 | 0.005 | 11/20/89 |
| 1055 | Sulfate | 14523 | 250 | 10.7 | EPA300.0 | 0.200 | 12/4/89 |
| 1095 | Zinc | 14523 | 5 | <0.001 | EPA289.1 | 0.001 | 11/17/89 |
| 1901 | Carbon_Dioxide | 14523 | | 3.7 | SM406C | 0.1 | |
| 1905 | Color | 14523 | 15 | <5 | EPA110.1 | 5 | 11/17/89 |
| 1915 | Total_Hardness | 14523 | | 114.5 | SM314A | 0.1 | |
| 1917 | NCH_as_CaCO3 | 14523 | | 6.2 | SM314A | 0.1 | |
| 1920 | Odor(TON) | 14523 | 3 | <1 | EPA140.1 | 1 | 11/17/89 |
| 1924 | Field_pH | 14523 | 6.5-8.5 | - | EPA150.1 | 0.01 | |
| 1925 | Lab_pH | 14523 | 6.5-8.5 | 7.8 | EPA150.1 | 0.01 | 11/24/89 |
| 1927 | Alkalinity | 14523 | | 108.3 | EPA310.1 | 0.1 | 11/24/89 |
| 1930 | TDS | 14523 | 500 | 114.8 | EPA160.1 | 2.5 | 12/1/89 |
| 1996 | Temperature | 14523 | | 25 - | | 1 | |
| 1997 | Langelier_Index | 14523 | -0.2:+0.2 | -0.09 | SM203 | 0.01 | |
| 1998 | Saturation_Index | 14523 | | 7.86 | SM203 | 0.01 | |
| 1999 | Stability_Index | 14523 | | 7.95 | SM203 | 0.01 | |

## Turbidity Analysis
17-550.310(3)
(PWS026)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(NTU) | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 0100 | Turbidity | 14523 | 1 | 0.15 | EPA180.1 | 0.05 | 11/17/89 |

Comments:

## Inorganic Analysis
17-550.310(1)
(PWS030)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L) | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1005 | Arsenic | 14523 | 0.05 | <0.0005 | EPA206.3 | 0.0005 | 11/21/89 |
| 1010 | Barium | 14523 | 1 | 0.01 | EPA208.1 | 0.01 | 11/22/89 |
| 1015 | Cadmium | 14523 | 0.01 | <0.001 | EPA213.1 | 0.001 | 11/20/89 |
| 1020 | Chromium | 14523 | 0.05 | <0.005 | EPA218.1 | 0.005 | 11/20/89 |
| 1025 | Fluoride | 14523 | 4 | 0.098 | EPA300.0 | 0.005 | 11/30/89 |
| 1030 | Lead | 14523 | 0.05 | 0.05 | EPA239.1 | 0.01 | 11/17/89 |
| 1035 | Mercury | 14523 | 0.002 | <0.0002 | EPA245.1 | 0.0002 | 11/24/89 |
| 1040 | Nitrate (as N) | 14523 | 10 | 2.510 | EPA300.0 | 0.013 | 12/4/89 |
| 1045 | Selenium | 14523 | 0.01 | <0.0005 | EPA270.3 | 0.0005 | 11/21/89 |
| 1050 | Silver | 14523 | 0.05 | <0.005 | EPA272.1 | 0.005 | 11/22/89 |
| 1052 | Sodium | 14523 | 160 | 3.470 | EPA273.1 | 0.002 | 11/17/89 |

Comments:

## Trihalomethane Analysis
17-550.310(2)(c)
(PWS027)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L) | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2950 | TTHM | 14523 | 0.10 | <0.001 | EPA502.2 | 0.001 | 11/18/89 |

Comments:

## Volatile Organic Analysis
17-550.310(2)(d)
(PWS029)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L) | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 14523 | .00002 | <.000005 | EPA504.1 | .000005 | 11/20/89 |
| 2969 | Para-dichlorobenzene | 14523 | .075 | <0.001 | EPA502.2 | 0.001 | 11/18/89 |
| 2976 | Vinyl chloride | 14523 | 0.001 | <0.001 | EPA502.2 | 0.001 | 11/18/89 |
| 2977 | 1,1,-dichloroethene | 14523 | 0.007 | <0.001 | EPA502.2 | 0.001 | 11/18/89 |
| 2980 | 1,2,-dichloroethane | 14523 | 0.003 | <0.001 | EPA502.2 | 0.001 | 11/18/89 |
| 2981 | 1,1,1-trichloroethane | 14523 | 0.2 | <0.001 | EPA502.2 | 0.001 | 11/18/89 |
| 2982 | Carbon tetrachloride | 14523 | 0.003 | <0.001 | EPA502.2 | 0.001 | 11/18/89 |

UPS

Jefferson L. Flowers, Ph. D.
Jefferson S. Flowers, Ph. D.

Bus: 407-339-5984
FAX: 407-260-8110

# FLOWERS CHEMICAL LABORATORIES, INC.

## ANALYTICAL & CONSULTING CHEMISTS

## CHAIN OF CUSTODY RECORD

John Levesque

32676

Unit 3 Hunters Pt

Page ___ of ___

| Client: SSOIL | Address: 7177 W. International Ct. | Phone: 904-382-4944 |
|---|---|---|
| Project Name: | Required: Urgent ☐ Routine ☒ Date 11-15-99 | |

| Sample Containers QTY | Preservative: HNO3 | H2SO4 | HCl | Na2S2O3 | Zn(C2H3O2)/NaOH | NaOH/AscAcid | | Plastic Containers: 60mL | 125mL | 250mL | 500mL | 1L | 2L | Whirl-Pak Bag | | Glass Containers: 40mL Vial | 250mL | 500mL | 1L | 2L | 4L | | NOTES: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | | | | | | X | | |
| 1 | X | | | | | | | | | | X | | | | | | | | | | | | |
| 1 | X | | | | | | | | | | | | | | | | | | X | | | | |
| 4 | | | | | | | | | | | | | | | | X | | | | | | | |
| 1 | | | | | | | | | | | | X | | | | | | | | | | | |

| Kit Relinquished: | Date: Time: | Kit Received: | Date: Time: |
|---|---|---|---|

Parameters: Full Drinking Water DW OC

| Laboratory Number | Client Identification/Description |
|---|---|
| | Well # 1 |
| 14523 | Well # 2 |
| | Well # 5 (Comp. all 4) |
| | Well # 6 |

| | | Date | Time |
|---|---|---|---|
| Sample Collection: | | | |
| Transportation: | | | |
| Lab Acceptance: | | 11-11-99 | |

481 NEWBURYPORT AVE., P.O. BOX 150-597, ALTAMONTE SPRINGS, FLA. 32715-0597

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.

Ph. (407) 339-5984
Fax (407) 260-6110

# FLOWERS CHEMICAL LABORATORIES, INC.

## ANALYTICAL & CONSULTING CHEMISTS

Received From:
Southern States
1000 Color Pl.
Apopka,FL 32703

Date Reported: Dec 8 1989

Proj Num Southern Stat
DHRS Lab# : 83139
DER Lab# : EB3018

For: WELLS 8&9 S.M.W
Date Received: Nov20 1989 Lab Number : 14551

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 14551 |
|---|---|---|---|---|---|
| Turbidity | NTU | 0.05 | - | 2.24 | 0.38 |
| Arsenic | mg/L | 0.0005 | 98.3 | 1.97 | <0.00050 |
| Barium | mg/L | 0.01 | 104 | 2.15 | 0.02 |
| Cadmium | mg/L | 0.001 | 96.3 | 1.44 | <0.0010 |
| Chromium | mg/L | 0.005 | 98.0 | 1.00 | <0.0050 |
| Fluoride | mg/L | 0.005 | 95.8 | 3.80 | 0.111 |
| Lead | mg/L | 0.01 | 104 | 1.57 | <0.010 |
| Mercury | mg/L | 0.0002 | 97.5 | 4.42 | <0.00020 |
| Nitrate (as N) | mg/L | 0.013 | 105 | 5.80 | 1.86 |
| Selenium | mg/L | 0.0005 | 103 | 4.42 | <0.00050 |
| Silver | mg/L | 0.005 | 106 | 1.31 | <0.0050 |
| Sodium | mg/L | 0.002 | 101 | 0.39 | 5.93 |
| TTHM | mg/L | 0.001 | 99.5 | 2.02 | <0.0010 |
| Ethylene dibromide | mg/L | 0.000005 | 98.7 | 1.18 | <0.0000050 |
| Para-dichlorobenzene | mg/L | 0.001 | 96.6 | 2.40 | <0.0010 |
| Vinyl chloride | mg/L | 0.001 | 97.2 | 3.63 | <0.0010 |
| 1,1,-dichloroethene | mg/L | 0.001 | 107 | 5.59 | <0.0010 |
| 1,2,-dichloroethane | mg/L | 0.001 | 98.7 | 1.16 | <0.0010 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 99.4 | 0.83 | <0.0010 |
| Carbon tetrachloride | mg/L | 0.001 | 98.1 | 1.42 | <0.0010 |
| Trichloroethene | mg/L | 0.001 | 100 | 3.43 | <0.0010 |
| Tetrachloroethene | mg/L | 0.001 | 96.0 | 3.02 | <0.0010 |
| Benzene | mg/L | 0.001 | 89.9 | 6.86 | <0.0010 |
| Endrin | mg/L | 0.000001 | 97.1 | 1.75 | <0.0000010 |
| Lindane | mg/L | 0.000001 | 100 | 1.71 | <0.0000010 |
| Methoxychlor | mg/L | 0.00001 | 98.3 | 1.60 | <0.000010 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director


NEWBURYPORT & 2nd ST., P.O. BOX 150597, ALTAMONTE SPRINGS, FLA. 32715-0597

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.

Ph. (407) 339-5984
Fax (407) 260-6110

# FLOWERS CHEMICAL LABORATORIES, INC.

## ANALYTICAL & CONSULTING CHEMISTS

Received From:
Southern States
1000 Color Pl.
Apopka,FL 32703

Date Reported: Dec 8 1989

Proj Num Southern Stat
DHRS Lab# : 83139
DER Lab# : EB3018

For: WELLS 8&9 S.M.W.
Date Received: Nov20 1989 Lab Number : 14551

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 14551 |
|---|---|---|---|---|---|
| Toxaphene | mg/L | 0.0001 | 104 | 2.96 | <0.00010 |
| 2,4-D | mg/L | 0.00005 | 98.8 | 2.01 | <0.000050 |
| 2,4,5-TP (Silvex) | mg/L | 0.00002 | 95.0 | 1.62 | <0.000020 |
| Calcium | mg/L | 0.1 | 105 | 1.96 | 43.3 |
| Chloride | mg/L | 0.015 | 101 | 7.60 | 7.0 |
| Carbonate_CaCO3 | mg/L | 0.1 | | | 122.5 |
| Hydroxide_CaCO3 | mg/L | 0.1 | | | - |
| Copper | mg/L | 0.005 | 97.3 | 1.31 | <0.0050 |
| Bicarbonate _CaCO3 | mg/L | 0.1 | | | 121.7 |
| Carbonate_Alkalinity | mg/L | 0.1 | | | 0.7 |
| Hydrogen_Sulfide | mg/L | 0.5 | | | - |
| Iron | mg/L | 0.01 | 97.0 | 1.96 | <0.010 |
| Magnesium | mg/L | 0.01 | 96.3 | 1.44 | 5.7 |
| Manganese | mg/L | 0.005 | 101 | 0.39 | <0.0050 |
| Sulfate | mg/L | 0.2 | 93.0 | 2.40 | 5.6 |
| Zinc | mg/L | 0.001 | 103 | 1.43 | 0.002 |
| Carbon_Dioxide | mg/L | 0.1 | | | 4 |
| Color | mg/L | 5 | - | - | 7.5 |
| Total_Hardness | mg/L | 0.1 | | | 132 |
| NCH_as_CaCO3 | mg/L | 0.1 | | | 9.5 |
| Odor(TON) | TON | 1 | - | - | <1 |
| Field_pH | pH | 0.01 | | | - |
| Lab_pH | pH | 0.01 | 100 | 0.75 | 7.7 |
| Alkalinity | mg/L | 0.1 | - | 9.50 | 122.5 |
| TDS | mg/L | 2.5 | 101 | 2.20 | 156.3 |
| Temperature | oC | 1 | | | 25 |

Data Release Authorization

Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director


NEWBURYPORT & 2nd ST., P.O. BOX 150597, ALTAMONTE SPRINGS, FLA 32715-0597

,an L. Flowers, Ph.D.
,eson S. Flowers, Ph.D.

Ph. (407) 339-5984
Fax (407) 260-6110

# FLOWERS CHEMICAL LABORATORIES, INC.

## ANALYTICAL & CONSULTING CHEMISTS

ceived From:
Southern States
1000 Color Pl.
Apopka,FL 32703

Date Reported: Dec 8 1989

Proj Num Southern Stat
DHRS Lab# : 83139
DER Lab# : E83018

r: WELLS 8&9 S.M.W.
te Received: Nov20 1989 Lab Number : 14551

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 14551 |
|---|---|---|---|---|---|
| Langelier_Index | LX | 0.01 | | | 0.07 |
| Saturation_Index | pHs | 0.01 | | | 7.71 |
| Stability_Index | pH | 0.01 | | | 7.65 |
| Foaming_Agents | mg/L | 0.1 | - | - | <0.10 |
| Field Chlorine | mg/L | 0.1 | | | - |
| oss alpha incl. Ra | pCi/L | 1 | | | <1 |
| Chloromethane | mg/L | 0.001 | 97.2 | 3.63 | <0.0010 |
| ichlorodifluorometh | mg/L | 0.001 | 97.2 | 3.63 | <0.0010 |
| Bromomethane | mg/L | 0.001 | 97.2 | 3.63 | <0.0010 |
| Chloroethane | mg/L | 0.001 | 93.1 | 5.79 | <0.0010 |
| ichlorofluorometha | mg/L | 0.001 | 93.2 | 7.28 | <0.0010 |
| ans-1,3,-dichlorop | mg/L | 0.001 | 96.1 | 3.22 | <0.0010 |
| is-1,3-dichloroprop | mg/L | 0.001 | 97.9 | 3.16 | <0.0010 |
| ethyl-tert-butyleth | mg/L | 0.001 | 93.7 | 4.29 | <0.0010 |
| is-1,2-dichloroethe | mg/L | 0.001 | 97.2 | 3.63 | <0.0010 |
| Dibromomethane | mg/L | 0.001 | 97.2 | 3.63 | <0.0010 |
| ,1-dichloropropene | mg/L | 0.001 | 97.2 | 3.63 | <0.0010 |
| 1,3-dichloropropane | mg/L | 0.001 | 97.2 | 3.63 | <0.0010 |
| ,2,3-trichloropropa | mg/L | 0.001 | 97.2 | 3.63 | <0.0010 |
| 2,2-dichloropropane | mg/L | 0.001 | 97.2 | 3.63 | <0.0010 |
| ,2-dibromo-3-chloro | mg/L | 0.001 | 91.0 | 8.60 | <0.0010 |
| Chloroform | mg/L | 0.001 | 104 | 2.38 | <0.0010 |
| Bromoform | mg/L | 0.001 | 97.9 | 3.16 | <0.0010 |
| romodichloromethane | mg/L | 0.001 | 98.6 | 0.85 | <0.0010 |
| ibromochloromethane | mg/L | 0.001 | 97.4 | 1.68 | <0.0010 |
| p-xylene | mg/L | 0.001 | 93.3 | 4.85 | <0.0010 |

Data Release Authorization
ample integrity and reliability certified by Lab personnel prior to analysis.
ethods of analysis in accordance with FCL QA and EPA approved methodology.

Jeffamson St Flowers, Ph.D.
Technical Director


NEWBURYPORT & 2nd ST., P.O. BOX 150597, ALTAMONTE SPRINGS, FLA. 32715-0597

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.

Ph. (407) 339-5984
Fax (407) 260-6110

# FLOWERS CHEMICAL LABORATORIES, INC.

## ANALYTICAL & CONSULTING CHEMISTS

Received From:
Southern States
1000 Color Pl.
Apopka,FL 32703

Date Reported: Dec 8 1989

Proj Num Southern Stat
DHRS Lab# : 83139
DER Lab# : EB3018

For: WELLS 8&9 S.m.w.
Date Received: Nov20 1989 Lab Number : 14551

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 14551 |
|---|---|---|---|---|---|
| Methylene chloride | mg/L | 0.001 | 110 | 6.33 | <0.0010 |
| o-chlorotoluene | mg/L | 0.001 | 97.2 | 3.63 | <0.0010 |
| p-chlorotoluene | mg/L | 0.001 | 97.2 | 3.63 | <0.0010 |
| m-dichlorobenzene | mg/L | 0.001 | 94.7 | 3.19 | <0.0010 |
| o-dichlorobenzene | mg/L | 0.001 | 97.0 | 2.06 | <0.0010 |
| 1,1-dichloroethane | mg/L | 0.001 | 100 | 1.78 | <0.0010 |
| trans-1,2-dichloroet | mg/L | 0.001 | 98.9 | 1.64 | <0.0010 |
| 1,2-dichloropropane | mg/L | 0.001 | 97.5 | 1.65 | <0.0010 |
| 1,1,2-trichloroethan | mg/L | 0.001 | 98.6 | 0.97 | <0.0010 |
| 1,1,1,2-tetrachloroe | mg/L | 0.001 | 97.2 | 3.63 | <0.0010 |
| 1,1,2,2-tetrachloroe | mg/L | 0.001 | 91.0 | 6.41 | <0.0010 |
| Chlorobenzene | mg/L | 0.001 | 96.4 | 2.51 | <0.0010 |
| Toluene | mg/L | 0.001 | 91.2 | 6.11 | <0.0010 |
| Ethylbenzene | mg/L | 0.001 | 94.3 | 3.93 | <0.0010 |
| Bromobenzene | mg/L | 0.001 | 97.2 | 3.63 | <0.0010 |
| m-xylene | mg/L | 0.001 | 98.1 | 2.37 | <0.0010 |
| Styrene | mg/L | 0.001 | 97.2 | 3.63 | <0.0010 |
| o-xylene | mg/L | 0.001 | 93.3 | 4.85 | <0.0010 |
| Dalapon | mg/L | 0.000001 | 95.9 | 4.92 | <0.0000010 |
| Oxamyl (Vydate) | mg/L | 0.002 | 93.5 | 5.94 | <0.0020 |
| Simazine | mg/L | 0.007 | 102 | 2.33 | <0.0070 |
| Picloram | mg/L | 0.00007 | 97.3 | 2.86 | <0.000070 |
| Dinoseb | mg/L | 0.00001 | 104 | 5.10 | <0.000010 |
| Aldicarb sulfoxide | mg/L | 0.002 | 98.3 | 1.50 | <0.0020 |
| Aldicarb sulfone | mg/L | 0.002 | 103 | 2.59 | <0.0020 |
| Metolachlor | mg/L | 0.0005 | 104 | 3.82 | <0.00050 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director


NEWBURYPORT & 2nd ST., P.O. BOX 150597, ALTAMONTE SPRINGS, FLA. 32715-0597

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.

Ph. (407) 339-5984
Fax (407) 260-6110

# FLOWERS CHEMICAL LABORATORIES, INC.

## ANALYTICAL & CONSULTING CHEMISTS

Received From:
Southern States
1000 Color Pl.
Apopka,FL 32703

Date Reported: Dec 8 1989

Proj Num Southern Stat
DHRS Lab# : 83139
DER Lab# : E83018

For: WELLS 8&9 S.M.W.
Date Received: Nov20 1989 Lab Number : 14551

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 14551 |
|---|---|---|---|---|---|
| Carbofuran | mg/L | 0.001 | 102 | 1.35 | <0.0010 |
| Aldicarb | mg/L | 0.002 | 101 | 1.19 | <0.0020 |
| Atrazine | mg/L | 0.002 | 98.3 | 1.33 | <0.0020 |
| Alachlor (Lasso) | mg/L | 0.0002 | 95.8 | 3.66 | <0.00020 |
| Heptachlor | mg/L | 0.000005 | 101 | 1.08 | <0.0000050 |
| Aldrin | mg/L | 0.00007 | 98.8 | 1.18 | <0.000070 |
| Dieldrin | mg/L | 0.00001 | 98.4 | 2.96 | <0.000010 |
| Dicamba | mg/L | 0.00001 | 100 | 3.26 | <0.000010 |
| Chlordane | mg/L | 0.00001 | 102 | 2.06 | <0.000010 |
| Pentachlorophenol | mg/L | 0.005 | 103 | 2.69 | <0.0050 |
| Hexachlorocyclopenta | mg/L | 0.005 | 97.5 | 2.05 | <0.0050 |
| Dioxin | mg/L | 0.00001 | 103 | 2.83 | <0.000010 |
| Isophorone | mg/L | 0.005 | 97.5 | 2.05 | <0.0050 |
| 2,4-dinitrotoluene | mg/L | 0.005 | 97.5 | 2.05 | <0.0050 |
| Dimethylphthalate | mg/L | 0.005 | 97.5 | 2.05 | <0.0050 |
| Diethylphthalate | mg/L | 0.005 | 97.5 | 2.05 | <0.0050 |
| Di-n-butylphthalate | mg/L | 0.005 | 97.5 | 2.05 | <0.0050 |
| Butyl benzyl phthala | mg/L | 0.005 | 97.5 | 2.05 | <0.0050 |
| Bis(2-ethylhexyl)pht | mg/L | 0.005 | 97.5 | 2.05 | <0.0050 |
| 1,2,4-trichlorobenze | mg/L | 0.005 | 97.5 | 2.05 | <0.0050 |
| PCB-1016 | mg/L | 0.0001 | 102 | 2.63 | <0.00010 |
| PCB-1221 | mg/L | 0.0001 | 102 | 2.63 | <0.00010 |
| PCB-1232 | mg/L | 0.0001 | 102 | 2.63 | <0.00010 |
| PCB-1242 | mg/L | 0.0001 | 102 | 2.63 | <0.00010 |
| PCB-1248 | mg/L | 0.0001 | 102 | 2.63 | <0.00010 |
| PCB-1254 | mg/L | 0.0001 | 102 | 2.63 | <0.00010 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director


NEWBURYPORT & 2nd ST., P.O. BOX 150597, ALTAMONTE SPRINGS, FLA. 32715-0597

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.

Ph. (407) 339-5984
Fax (407) 260-6110

# FLOWERS CHEMICAL LABORATORIES, INC.

## ANALYTICAL & CONSULTING CHEMISTS

Received From:
Southern States
1000 Color Pl.
Apopka,FL 32703

Date Reported: Dec 8 1989

Proj Num Southern Stat
DHRS Lab# : 83139
DER Lab# : E83018

For: WELLS 8&9 S.M.W.
Date Received: Nov20 1989 Lab Number : 14551

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 14551 |
|---|---|---|---|---|---|
| PCB-1260 | mg/L | 0.0001 | 102 | 2.63 | <0.00010 |
| Dioctylphthalate | mg/L | 0.005 | 97.5 | 2.05 | <0.0050 |
| 2-chlorophenol | mg/L | 0.005 | 94.1 | 1.31 | <0.0050 |
| 2-methyl-4,6-dinitop | mg/L | 0.005 | 94.1 | 1.31 | <0.0050 |
| Phenol | mg/L | 0.005 | 94.1 | 1.31 | <0.0050 |
| 2,4,6-trichloropheno | mg/L | 0.005 | 94.1 | 1.31 | <0.0050 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



NEWBURYPORT & 2nd ST., P.O. BOX 150597, ALTAMONTE SPRINGS, FLA. 32715-0597

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

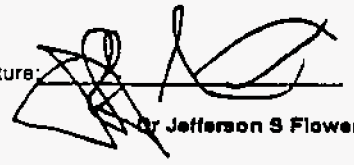
**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 6091735
Public Water System Name: Southern States utilities
Public Water System Type (check one): Sugar-Mill Woods
(X)Community ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyzed: Turbidity_X_; Inorganic_X_; Trihalomethane _X_;
Volatile Organic_X_; Organic Chemical_X_; Secondary Chemical_X_; Radiological_X_;
Unregulated Organic Purgeable_X_; Unregulated Organic Pesticide_X_;
Unregulated Base Neutral Extractable_X_; Unregulated Acid Extractable__X_;
Subcontracted Lab Certification Number (If any For Radiological PArameters: HRS13186

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number: 14551
Sample Location (be specific): Sugar Mill Woods Citrus County
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composite
( )Clearance ( )Maximum Residence Time ( )Plant Tap
( )Raw ( )Well ( )Resample
(X)Special Total Drinking Water Scan
Sampler Name, Title Phone: John Levesque Div. Supervisor 904-382-4442

**ANALYSIS INFORMATION**
Extraction Date 12/6/89
Laboratory Contact Dr. J.S. Flowers
Resample Requested? (check on ()Yes (X) No
ANALYSIS SUBMITTED: Turbidity___; Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___; Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature: 

Name Dr Jefferson S Flowers

Title Technical Director

Laboratory Flowers Chemical Laboratories,Inc.

Date 12/7/89

Mail Results to the Appropriate DER or ACPHU Office:

DER /ACPHU Reviewing Offical:

PWSA.01
Effective 06/01/89

Sample Interpretation (check one):
() Satisfactory () Unsatisfactory

## Turbidity Analysis
17-550.310(3)
(PWS026)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(NTU) | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 0100 | Turbidity | 14551 | 1 | 0.38 | EPA180.1 | 0.05 | 11/22/89 |

Comments:

## Inorganic Analysis
17-550.310(1)
(PWS030)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L) | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1005 | Arsenic | 14551 | 0.05 | <0.0005 | EPA206.3 | 0.0005 | 11/21/89 |
| 1010 | Barium | 14551 | 1 | 0.02 | EPA208.1 | 0.01 | 11/22/89 |
| 1015 | Cadmium | 14551 | 0.01 | <0.001 | EPA213.1 | 0.001 | 11/22/89 |
| 1020 | Chromium | 14551 | 0.05 | <0.005 | EPA218.1 | 0.005 | 11/22/89 |
| 1025 | Fluoride | 14551 | 4 | 0.111 | EPA300.0 | 0.005 | 12/5/89 |
| 1030 | Lead | 14551 | 0.05 | <0.01 | EPA239.1 | 0.01 | 11/22/89 |
| 1035 | Mercury | 14551 | 0.002 | <0.0002 | EPA245.1 | 0.0002 | 11/24/89 |
| 1040 | Nitrate (as N) | 14551 | 10 | 1.860 | EPA300.0 | 0.013 | 12/6/89 |
| 1045 | Selenium | 14551 | 0.01 | <0.0005 | EPA270.3 | 0.0005 | 11/21/89 |
| 1050 | Silver | 14551 | 0.05 | <0.005 | EPA272.1 | 0.005 | 11/22/89 |
| 1052 | Sodium | 14551 | 160 | 5.930 | EPA273.1 | 0.002 | 11/27/89 |

Comments:

## Trihalomethane Analysis
17-550.310(2)(c)
(PWS027)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L) | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2950 | TTHM | 14551 | 0.10 | <0.001 | EPA502.2 | 0.001 | 12/5/89 |

Comments:

## Volatile Organic Analysis
17-550.310(2)(d)
(PWS029)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L) | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 14551 | .00002 | <.000005 | EPA504.1 | .000005 | 12/5/89 |
| 2969 | Para-dichlorobenzene | 14551 | .075 | <0.001 | EPA502.2 | 0.001 | 12/5/89 |
| 2976 | Vinyl chloride | 14551 | 0.001 | <0.001 | EPA502.2 | 0.001 | 12/5/89 |
| 2977 | 1,1,-dichloroethene | 14551 | 0.007 | <0.001 | EPA502.2 | 0.001 | 12/5/89 |
| 2980 | 1,2,-dichloroethane | 14551 | 0.003 | <0.001 | EPA502.2 | 0.001 | 12/5/89 |
| 2981 | 1,1,1-trichloroethane | 14551 | 0.2 | <0.001 | EPA502.2 | 0.001 | 12/5/89 |
| 2982 | Carbon tetrachloride | 14551 | 0.003 | <0.001 | EPA502.2 | 0.001 | 12/5/89 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 2984 | Trichloroethene | 14551 | 0.003 | <0.001 | EPA502.2 | 0.001 | 12/5/89 |
| 2987 | Tetrachloroethene | 14551 | 0.003 | <0.001 | EPA502.2 | 0.001 | 12/5/89 |
| 2990 | Benzene | 14551 | 0.001 | <0.001 | EPA502.2 | 0.001 | 12/5/89 |

Comments:

**Organic Chemical Analysis**
**17-550.310(2)(a)(b)**
**(PWS029)**

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L) | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2005 | Endrin | 14551 | 0.0002 | <.000001 | EPA508 | .000001 | 12/6/89 |
| 2010 | Lindane | 14551 | 0.004 | <.000001 | EPA508 | .000001 | 12/6/89 |
| 2015 | Methoxychlor | 14551 | 0.1 | <0.00001 | EPA508 | 0.00001 | 12/6/89 |
| 2020 | Toxaphene | 14551 | 0.005 | <0.0001 | EPA508 | 0.0001 | 12/6/89 |
| 2105 | 2,4-D | 14551 | 0.1 | <0.00005 | EPA515 | 0.00005 | 12/6/89 |
| 2110 | 2,4,5-TP (Silvex) | 14551 | 0.01 | <0.00002 | EPA515 | 0.00002 | 12/6/89 |

Comments:

**Secondary Chemical Analysis**
**17-550.320**
**(PWS031)**

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L) | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1016 | Calcium | 14551 | | 43.4 | EPA215.1 | 0.1 | 11/21/89 |
| 1017 | Chloride | 14551 | 250 | 7.1 | EPA300.0 | 0.015 | 12/6/89 |
| 1019 | Carbonate_CaCO3 | 14551 | | 122.5 | SM314A | 0.1 | |
| 1021 | Hydroxide_CaCO3 | 14551 | | 0.0 | SM406C | 0.1 | |
| 1022 | Copper | 14551 | 1 | <0.005 | EPA220.1 | 0.005 | 11/24/89 |
| 1023 | Bicarbonate_CaCO3 | 14551 | | 121.8 | SM406C | 0.1 | |
| 1026 | Carbonate_Alkalinity | 14551 | | 0.7 | SM406C | 0.1 | |
| 1027 | Hydrogen_Sulfide | 14551 | | - | EPA376.1 | 0.5 | |
| 1028 | Iron | 14551 | 0.3 | <0.01 | EPA236.1 | 0.01 | 11/24/89 |
| 1031 | Magnesium | 14551 | | 5.7 | EPA242.1 | 0.01 | 11/21/89 |
| 1032 | Manganese | 14551 | 0.05 | <0.005 | EPA243.1 | 0.005 | 11/27/89 |
| 1055 | Sulfate | 14551 | 250 | 5.6 | EPA300.0 | 0.200 | 12/6/89 |
| 1095 | Zinc | 14551 | 5 | 0.002 | EPA289.1 | 0.001 | 11/21/89 |
| 1901 | Carbon_Dioxide | 14551 | | 4.0 | SM406C | 0.1 | |
| 1905 | Color | 14551 | 15 | 7.5 | EPA110.1 | 5 | 11/22/89 |
| 1915 | Total_Hardness | 14551 | | 132.0 | SM314A | 0.1 | |
| 1917 | NCH_as_CaCO3 | 14551 | | 9.5 | SM314A | 0.1 | |
| 1920 | Odor(TON) | 14551 | 3 | <1 | EPA140.1 | 1 | 11/22/89 |
| 1924 | Field_pH | 14551 | 6.5-8.5 | - | EPA150.1 | 0.01 | |
| 1925 | Lab_pH | 14551 | 6.5-8.5 | 7.8 | EPA150.1 | 0.01 | 11/24/89 |
| 1927 | Alkalinity | 14551 | | 122.5 | EPA310.1 | 0.1 | 11/24/89 |
| 1930 | TDS | 14551 | 500 | 156.3 | EPA160.1 | 2.5 | 12/1/89 |
| 1996 | Temperature | 14551 | | 25 - | | 1 | |
| 1997 | Langelier_Index | 14551 | -0.2:+0.2 | 0.07 | SM203 | 0.01 | |
| 1998 | Saturation_Index | 14551 | | 7.72 | SM203 | 0.01 | |
| 1999 | Stability_Index | 14551 | | 7.65 | SM203 | 0.01 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 2909 | Foaming_Agents | 14551 | 0.5 | <0.1 | EPA425.1 | 0.1 | 12/1/89 |
| | Field_Chlorine | 14551 | | - | - | 0.1 | |

Comments:

Radiological Analysis
17-550.310(5)
(PWS033)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(pCi/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 4000 | Gross alpha incl. Ra & U | 14551 | 5 | <1 | EPA900 | 1 | 12/4/89 |

Comments:

Unregulated Organic Purgeable Analysis
17-550.410(1)
(PWS034)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L) | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2210 | Chloromethane | 14551 | | <0.001 | EPA502.2 | 0.001 | 12/5/89 |
| 2212 | Dichlorodifluoromethane | 14551 | | <0.001 | EPA502.2 | 0.001 | 12/5/89 |
| 2214 | Bromomethane | 14551 | | <0.001 | EPA502.2 | 0.001 | 12/5/89 |
| 2216 | Chloroethane | 14551 | | <0.001 | EPA502.2 | 0.001 | 12/5/89 |
| 2218 | Trichlorofluoromethane | 14551 | | <0.001 | EPA502.2 | 0.001 | 12/5/89 |
| 2224 | trans-1,3,-dichloropropene | 14551 | | <0.001 | EPA502.2 | 0.001 | 12/5/89 |
| 2228 | cis-1,3-dichloropropene | 14551 | | <0.001 | EPA502.2 | 0.001 | 12/5/89 |
| 2251 | Methyl-tert-butylether | 14551 | | <0.001 | EPA502.2 | 0.001 | 12/5/89 |
| 2380 | cis-1,2-dichloroethene | 14551 | | <0.001 | EPA502.2 | 0.001 | 12/5/89 |
| 2408 | Dibromomethane | 14551 | | <0.001 | EPA502.2 | 0.001 | 12/5/89 |
| 2410 | 1,1-dichloropropene | 14551 | | <0.001 | EPA502.2 | 0.001 | 12/5/89 |
| 2412 | 1,3-dichloropropane | 14551 | | <0.001 | EPA502.2 | 0.001 | 12/5/89 |
| 2414 | 1,2,3-trichloropropane | 14551 | | <0.001 | EPA502.2 | 0.001 | 12/5/89 |
| 2416 | 2,2-dichloropropane | 14551 | | <0.001 | EPA502.2 | 0.001 | 12/5/89 |
| 2931 | 1,2-dibromo-3-chloropropan | 14551 | | <0.001 | EPA502.2 | 0.001 | 12/5/89 |
| 2941 | Chloroform | 14551 | | <0.001 | EPA502.2 | 0.001 | 12/5/89 |
| 2942 | Bromoform | 14551 | | <0.001 | EPA502.2 | 0.001 | 12/5/89 |
| 2943 | Bromodichloromethane | 14551 | | <0.001 | EPA502.2 | 0.001 | 12/5/89 |
| 2944 | Dibromochloromethane | 14551 | | <0.001 | EPA502.2 | 0.001 | 12/5/89 |
| 2962 | p-xylene | 14551 | | <0.001 | EPA502.2 | 0.001 | 12/5/89 |
| 2964 | Methylene chloride | 14551 | | <0.001 | EPA502.2 | 0.001 | 12/5/89 |
| 2965 | o-chlorotoluene | 14551 | | <0.001 | EPA502.2 | 0.001 | 12/5/89 |
| 2966 | p-chlorotoluene | 14551 | | <0.001 | EPA502.2 | 0.001 | 12/5/89 |
| 2967 | m-dichlorobenzene | 14551 | | <0.001 | EPA502.2 | 0.001 | 12/5/89 |
| 2968 | o-dichlorobenzene | 14551 | | <0.001 | EPA502.2 | 0.001 | 12/5/89 |
| 2978 | 1,1-dichloroethane | 14551 | | <0.001 | EPA502.2 | 0.001 | 12/5/89 |
| 2979 | trans-1,2-dichloroethylene | 14551 | | <0.001 | EPA502.2 | 0.001 | 12/5/89 |
| 2983 | 1,2-dichloropropane | 14551 | | <0.001 | EPA502.2 | 0.001 | 12/5/89 |
| 2985 | 1,1,2-trichloroethane | 14551 | | <0.001 | EPA502.2 | 0.001 | 12/5/89 |
| 2986 | 1,1,1,2-tetrachloroethane | 14551 | | <0.001 | EPA502.2 | 0.001 | 12/5/89 |
| 2988 | 1,1,2,2-tetrachloroethane | 14551 | | <0.001 | EPA502.2 | 0.001 | 12/5/89 |
| 2989 | Chlorobenzene | 14551 | | <0.001 | EPA502.2 | 0.001 | 12/5/89 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 2991 | Toluene | 14551 | | <0.001 | EPA502.2 | 0.001 | 12/5/89 |
| 2992 | Ethylbenzene | 14551 | | <0.001 | EPA502.2 | 0.001 | 12/5/89 |
| 2993 | Bromobenzene | 14551 | | <0.001 | EPA502.2 | 0.001 | 12/5/89 |
| 2995 | m-xylene | 14551 | | <0.001 | EPA502.2 | 0.001 | 12/5/89 |
| 2996 | Styrene | 14551 | | <0.001 | EPA502.2 | 0.001 | 12/5/89 |
| 2997 | o-xylene | 14551 | | <0.001 | EPA502.2 | 0.001 | 12/5/89 |

Comments:

Unregulated Organic Pesticide Analysis
17-550.410(2)
(PWS035)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L) | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2031 | Dalapon | 14551 | | <.000001 | EPA515 | .000001 | 12/6/89 |
| 2036 | Oxamyl (Vydate) | 14551 | | <0.002 | EPA531 | 0.002 | 11/28/89 |
| 2037 | Simazine | 14551 | | <0.007 | EPA505 | 0.007 | 12/6/89 |
| 2040 | Picloram | 14551 | | <0.00007 | EPA515 | 0.00007 | 12/6/89 |
| 2041 | Dinoseb | 14551 | | <0.00001 | EPA515 | 0.00001 | 12/6/89 |
| 2043 | Aldicarb sulfoxide | 14551 | | <0.002 | EPA531 | 0.002 | 11/28/89 |
| 2044 | Aldicarb sulfone | 14551 | | <0.002 | EPA531 | 0.002 | 11/28/89 |
| 2045 | Metolachlor | 14551 | | <0.0005 | EPA505 | 0.0005 | 12/6/89 |
| 2046 | Carbofuran | 14551 | | <0.001 | EPA531 | 0.001 | 11/28/89 |
| 2047 | Aldicarb | 14551 | | <0.002 | EPA531 | 0.002 | 11/28/89 |
| 2050 | Atrazine | 14551 | | <0.002 | EPA505 | 0.002 | 12/6/89 |
| 2051 | Alachlor (Lasso) | 14551 | | <0.0002 | EPA505 | 0.0002 | 12/6/89 |
| 2065 | Heptachlor | 14551 | | <.000005 | EPA508 | .000005 | 12/6/89 |
| 2356 | Aldrin | 14551 | | <0.00007 | EPA508 | 0.00007 | 12/6/89 |
| 2364 | Dieldrin | 14551 | | <0.00001 | EPA508 | 0.00001 | 12/6/89 |
| 2440 | Dicamba | 14551 | | <0.00001 | EPA515 | 0.00001 | 12/6/89 |
| 2959 | Chlordane | 14551 | | <0.00001 | EPA508 | 0.00001 | 12/6/89 |
| 9114 | Pentachlorophenol | 14551 | | <0.005 | EPA515 | 0.005 | 12/6/89 |

Comments:

Unregulated Base Neutral Extractable Analysis
17-550.410(3)
(PWS036)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L) | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2042 | Hexachlorocyclopentadiene | 14551 | | <0.005 | EPA612 | 0.005 | 12/6/89 |
| 2063 | Dioxin | 14551 | | <0.00001 | EPA613 | 0.00001 | 12/6/89 |
| 2262 | Isophorone | 14551 | | <0.005 | EPA609 | 0.005 | 12/6/89 |
| 2270 | 2,4-dinitrotoluene | 14551 | | <0.005 | EPA609 | 0.005 | 12/6/89 |
| 2282 | Dimethylphthalate | 14551 | | <0.005 | EPA606 | 0.005 | 12/6/89 |
| 2284 | Diethylphthalate | 14551 | | <0.005 | EPA606 | 0.005 | 12/6/89 |
| 2290 | Di-n-butylphthalate | 14551 | | <0.005 | EPA606 | 0.005 | 12/6/89 |
| 2294 | Butyl benzyl phthalate | 14551 | | <0.005 | EPA606 | 0.005 | 12/6/89 |
| 2298 | Bis(2-ethylhexyl)phthalate | 14551 | | <0.005 | EPA606 | 0.005 | 12/6/89 |
| 2378 | 1,2,4-trichlorobenzene | 14551 | | <0.005 | EPA612 | 0.005 | 12/6/89 |
| 2388 | PCB-1016 | 14551 | | <0.0001 | EPA505 | 0.0001 | 12/6/89 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 2390 | PCB-1221 | 14551 | <0.0001 | EPA505 | 0.0001 | 12/6/89 |
| 2392 | PCB-1232 | 14551 | <0.0001 | EPA505 | 0.0001 | 12/6/89 |
| 2394 | PCB-1242 | 14551 | <0.0001 | EPA505 | 0.0001 | 12/6/89 |
| 2396 | PCB-1248 | 14551 | <0.0001 | EPA505 | 0.0001 | 12/6/89 |
| 2398 | PCB-1254 | 14551 | <0.0001 | EPA505 | 0.0001 | 12/6/89 |
| 2400 | PCB-1260 | 14551 | <0.0001 | EPA505 | 0.0001 | 12/6/89 |
| 9089 | Dioctylphthalate | 14551 | <0.005 | EPA606 | 0.005 | 12/6/89 |

Comments:

**Unregulated Acid Extractable Analysis**
**17-550.410(4)**
**(PWS037)**

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L) | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 9108 | 2-chlorophenol | 14551 | | <0.005 | EPA604 | 0.005 | 12/6/89 |
| 9112 | 2-methyl-4,6-dinitophenol | 14551 | | <0.005 | EPA604 | 0.005 | 12/6/89 |
| 9115 | Phenol | 14551 | | <0.005 | EPA604 | 0.005 | 12/6/89 |
| 9116 | 2,4,6-trichlorophenol | 14551 | | <0.005 | EPA604 | 0.005 | 12/6/89 |

Comments:

Jefferson L. Flowers, Ph. D.
Jefferson S. Flowers, Ph. D.

Bus: 407-339-5984
FAX: 407-260-6110

# FLOWERS CHEMICAL LABORATORIES, INC.

## ANALYTICAL & CONSULTING CHEMISTS

## CHAIN OF CUSTODY RECORD

Page ___ of ___

| Client: | Address: | Phone: |
|---|---|---|
| Project Name: | Required: Urgent ☐ Routine ☐ Date ___ | |

| Sample Containers QTY | Preservative: HNO3 | H2SO4 | HCl | Na2S2O3 | Zn(C2H3O2)/NaOH | NaOH/AscAcid | | Plastic Containers: 60mL | 125mL | 250mL | 500mL | 1L | 2L | Whirl-Pak Bag | | Glass Containers: 40mL Vial | 250mL | 500mL | 1L | 2L | 4L | | NOTES: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | 1 | | | | | | | | | | | | |
| | 1 | | | | | | | | | | | | | | | | | | 1 | | | | |
| | | | | | | | | | | | | 1 | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |

| Kit Relinquished: | Date: Time: | Kit Received: | Date: Time: |
|---|---|---|---|
| | | | |

**Parameters:** Fl D. Key 1. . . + 6α

| Laboratory Number | Client Identification/Description |
|---|---|
| 14551 | Well #8 Composite |
| | Well #9 |

| | | Date | Time |
|---|---|---|---|
| Sample Collection: | | | |
| Transportation: | | 4/20 | 12:30 |
| Lab Acceptance: | | 4/20/17 | 2:50 |

481 NEWBURYPORT AVE., P.O. BOX 150-597, ALTAMONTE SPRINGS, FLA. 32715-0597

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.

Ph. (407) 339-5984
Fax (407) 260-6110

# FLOWERS CHEMICAL LABORATORIES, INC.

## ANALYTICAL & CONSULTING CHEMISTS

Received From:
Southern States Util
7177 Int.Ct.,Unit#3
Homosassa,FL 32646

Date Reported: Mar 6 1990

Proj Num So. States
DHRS Lab# : 83139
DER Lab# : E83018

Sugarmill Woods

For: WELL 1,2&5
Date Received: Feb20 1990 Lab Number : 14799

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 14799 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 105 | 4.50 | <0.0000050 |
| Para-dichlorobenzene | mg/L | 0.001 | 96.0 | 5.02 | <0.0010 |
| Vinyl chloride | mg/L | 0.001 | 107 | 4.99 | <0.0010 |
| 1,1,-dichloroethene | mg/L | 0.001 | 103 | 3.76 | <0.0010 |
| 1,2,-dichloroethane | mg/L | 0.001 | 105 | 2.73 | <0.0010 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 105 | 2.79 | <0.0010 |
| Carbon tetrachloride | mg/L | 0.001 | 104 | 2.28 | <0.0010 |
| Trichloroethene | mg/L | 0.001 | 107 | 4.37 | <0.0010 |
| Tetrachloroethene | mg/L | 0.001 | 105 | 2.95 | <0.0010 |
| Benzene | mg/L | 0.001 | 96.8 | 3.66 | <0.0010 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Andrew Harrison
Laboratory Manager



NEWBURYPORT & 2nd ST., P.O. BOX 150597, ALTAMONTE SPRINGS, FLA. 32715-0597

Volatile Organic Analysis
17-550.310(2)(d)
(PWS029)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L) | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 14799 | .00002 | <.000005 | EPA504.1 | .000005 | 3/5/90 |
| 2969 | Para-dichlorobenzene | 14799 | .075 | <0.001 | EPA502.2 | 0.001 | 3/4/90 |
| 2976 | Vinyl chloride | 14799 | 0.001 | <0.001 | EPA502.2 | 0.001 | 3/4/90 |
| 2977 | 1,1,-dichloroethene | 14799 | 0.007 | <0.001 | EPA502.2 | 0.001 | 3/4/90 |
| 2980 | 1,2,-dichloroethane | 14799 | 0.003 | <0.001 | EPA502.2 | 0.001 | 3/4/90 |
| 2981 | 1,1,1-trichloroethane | 14799 | 0.2 | <0.001 | EPA502.2 | 0.001 | 3/4/90 |
| 2982 | Carbon tetrachloride | 14799 | 0.003 | <0.001 | EPA502.2 | 0.001 | 3/4/90 |
| 2984 | Trichloroethene | 14799 | 0.003 | <0.001 | EPA502.2 | 0.001 | 3/4/90 |
| 2987 | Tetrachloroethene | 14799 | 0.003 | <0.001 | EPA502.2 | 0.001 | 3/4/90 |
| 2990 | Benzene | 14799 | 0.001 | <0.001 | EPA502.2 | 0.001 | 3/4/90 |

Comments:

## PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 6091735
Public Water System Name: Sugarmill Woods
Public Water System Type (check one):
(X) Community ( ) Non-community ( ) Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyzed: Turbidity___; Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___; Unregulated Acid Extractable____;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY): 2-20-90
Laboratory Sample Number: 14799
Sample Location (be specific): Wells 1, 2 & 5
Sample Type (check all applicable):
( ) Check ( ) Regular Distribution (X) Composite
( ) Clearance ( ) Maximum Residence Time ( ) Plant Tap
(X) Raw (X) Well ( ) Resample
( ) Special_____
Sampler Name, Title Phone: Tom Seager Operator II
904-382-4441

**ANALYSIS INFORMATION**
Extraction D: ___/___/___
Laboratory C Dr. J.S. Flowers
Resample Requested? (check one): ( )Yes (X) No
ANALYSIS SUBMITTED: Turbidity___; Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___; Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature:_____

Name Andrew B. Harrison

Title Laboratory Manager

Laboratory Flowers Chemical Laboratories,Inc.

Date 3/6/90

Mail Results to the Appropriate DER or ACPHU Office:

_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 06/ ( ) Satisfactory ( ) Unsatisfactory

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.

Ph. (407) 339-5984
Fax (407) 260-6110

# FLOWERS CHEMICAL LABORATORIES, INC.

## ANALYTICAL & CONSULTING CHEMISTS

Received From:
Southern States Util
7177 Int.Ct.Unit#3
Homosassa,FL 32646

Date Reported: Mar 6 1990

Proj Num So. States
DHRS Lab# : 83139
DER Lab# : E83018

Sugar Mill Woods

For: WELL 6,8&9
Date Received: Feb20 1990 Lab Number : 14800

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 14800 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 105 | 4.50 | <0.0000050 |
| Para-dichlorobenzene | mg/L | 0.001 | 96.0 | 5.02 | <0.0010 |
| Vinyl chloride | mg/L | 0.001 | 107 | 4.99 | <0.0010 |
| 1,1,-dichloroethene | mg/L | 0.001 | 103 | 3.76 | <0.0010 |
| 1,2,-dichloroethane | mg/L | 0.001 | 105 | 2.73 | <0.0010 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 105 | 2.79 | <0.0010 |
| Carbon tetrachloride | mg/L | 0.001 | 104 | 2.28 | <0.0010 |
| Trichloroethene | mg/L | 0.001 | 107 | 4.37 | <0.0010 |
| Tetrachloroethene | mg/L | 0.001 | 105 | 2.95 | <0.0010 |
| Benzene | mg/L | 0.001 | 96.8 | 3.66 | <0.0010 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Andrew Harrison
Laboratory Manager



NEWBURYPORT & 2nd ST., P.O. BOX 150597, ALTAMONTE SPRINGS, FLA. 32715-0597

Volatile Organic Analysis
17-550.310(2)(d)
(PWS029)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L) | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 14800 | .00002 | <.000005 | EPA504.1 | .000005 | 3/5/90 |
| 2969 | Para-dichlorobenzene | 14800 | .075 | <0.001 | EPA502.2 | 0.001 | 3/4/90 |
| 2976 | Vinyl chloride | 14800 | 0.001 | <0.001 | EPA502.2 | 0.001 | 3/4/90 |
| 2977 | 1,1,-dichloroethene | 14800 | 0.007 | <0.001 | EPA502.2 | 0.001 | 3/4/90 |
| 2980 | 1,2,-dichloroethane | 14800 | 0.003 | <0.001 | EPA502.2 | 0.001 | 3/4/90 |
| 2981 | 1,1,1-trichloroethane | 14800 | 0.2 | <0.001 | EPA502.2 | 0.001 | 3/4/90 |
| 2982 | Carbon tetrachloride | 14800 | 0.003 | <0.001 | EPA502.2 | 0.001 | 3/4/90 |
| 2984 | Trichloroethene | 14800 | 0.003 | <0.001 | EPA502.2 | 0.001 | 3/4/90 |
| 2987 | Tetrachloroethene | 14800 | 0.003 | <0.001 | EPA502.2 | 0.001 | 3/4/90 |
| 2990 | Benzene | 14800 | 0.001 | <0.001 | EPA502.2 | 0.001 | 3/4/90 |

Comments:

## PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 6091735
Public Water System Name: Sugar Mill Woods
Public Water System Type (check one):
(X) Community ( ) Non-community ( ) Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyzed: Turbidity___; Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___; Unregulated Acid Extractable____;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY): 2-20-90
Laboratory Sample Number: 14800
Sample Location (be specific): wells 6, 8 + 9
Sample Type (check all applicable):
( ) Check ( ) Regular Distribution (X) Composite
( ) Clearance ( ) Maximum Residence Time ( ) Plant Tap
(X) Raw (X) Well ( ) Resample
( ) Special_____
Sampler Name, Title Phone: Tom Seago Operator II
904-382-4441

**ANALYSIS INFORMATION**
Extraction D: ___/___/____
Laboratory C Dr. J.S. Flowers
Resample Requested? (check one): ()Yes (X) No
ANALYSIS SUBMITTED: Turbidity___; Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___; Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature: _____

Name **Andrew B. Harrison**

Title **Laboratory Manager**

Laboratory **Flowers Chemical Laboratories,Inc.**

Date 3/6/90

Mail Results to the Appropriate DER or ACPHU Office:

_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 06/ () Satisfactory () Unsatisfactory

2-20-90

# FLOWERS CHEMICAL LABORATORIES, INC.

ANALYTICAL & CONSULTING CHEMISTS

## CHAIN OF CUSTODY RECORD

Page ___ of ___

Attn: John Lauch — Homosassa, FL 32646

Client: Southern States Utilities | Address: 7177 Interna... Ct. Unit 3 | Phone: (904) 787-0441

Project Name: Sugar Mill Woods | Required: Urgent ☐ Routine ☐ Date ___

| Sample Containers QTY | Preservative: HNO3 | H2SO4 | HCl | Na2S2O3 | Zn(C2H3O2)2/NaOH | NaOH/AsAcid | Plastic Containers: 60ml | 125ml | 250ml | 500ml | 1L | 2L | Whirl Pak bag | Glass Containers: 40ml Vial | 250ml | 500ml | 1L | 2L | 4L | NOTES: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12 | | | | | | | | | | | | | | X | | | | | | |
| 12 | | | | | | | | | | | | | | X | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |

Kit Relinquished: _____ Date: _____ Time: _____ | Kit Received: _____ Date: _____ Time: _____

Parameters: ~~Dash~~ TCL List EDB

VOC

| Laboratory Number | Client Identification/Description |
|---|---|
| 14799 | Well #1, Well #23 (Composite), Well #5 |
| 14800 | Well #6, Well #83 (Composite), Well #9 |

| | | Date | Time |
|---|---|---|---|
| Sample Collection: | | | |
| Transportation: | ✓ John E Lauch | 2/20/90 | 1:25 PM |
| Lab Acceptance: | | 2/20/90 | 1125 |

481 NEWBURYPORT AVE., P.O. BOX 150-587, ALTAMONTE SPRINGS, FLA. 32715-0587

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
S.States Util.
7177 InternationalCt
Homasassa,FL 32646

Date Reported: Jun14 1990
PO Number: Sugar Mill Woods
PO Number
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WELL 6,8&9
Date Received: May 31, 1990

Lab Number : 15056

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 15056 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 107 | 5.55 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 106 | 4.18 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 106 | 9.29 | <0.001 |
| 1,1,-dichloroethene | mg/L | 0.001 | 99.3 | 0.68 | <0.001 |
| 1,2,-dichloroethane | mg/L | 0.001 | 94.3 | 5.87 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 95.5 | 4.28 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 95.2 | 4.30 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 96.9 | 3.35 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 97.3 | 4.34 | <0.001 |
| Benzene | mg/L | 0.001 | 106 | 4.50 | <0.301 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P.O. BOX 950597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 239-5984
FAX (407) 260-6112

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
S.States Util.
7177 InternationalCt
Homasassa,FL 32646

Date Reported: Jun14 1990
PO Number: Sugar Mill Woods
PO Number
FDHRS Lab# : 83139
FDER Lab# : EB3018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WELL 1,2&5
Date Received:May 31, 1990

Lab Number : 15055

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 15055 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 107 | 5.55 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 106 | 4.18 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 106 | 9.29 | <0.001 |
| 1,1,-dichloroethene | mg/L | 0.001 | 99.3 | 0.68 | <0.001 |
| 1,2,-dichloroethane | mg/L | 0.001 | 94.3 | 5.87 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 95.5 | 4.28 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 95.2 | 4.30 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 96.9 | 3.35 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 97.3 | 4.34 | <0.001 |
| Benzene | mg/L | 0.001 | 106 | 4.50 | <0.001 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



Jefferson L. Flowers, Ph.D
Jefferson S. Flowers, Ph.D
481 NEWBURYPORT
P O BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
(407) 339-5984
FAX (407) 260-6116

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.

Ph. (407) 339-5984
Fax (407) 260-6110

# FLOWERS CHEMICAL LABORATORIES, INC.

## ANALYTICAL & CONSULTING CHEMISTS

Received From:
S.S.U.
7177 W. International
Homosassa, FL 32646

Date Reported: Oct11 1990
PO Number: n/a
PO Number Sugarmill Woo
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WELL 1,2,5
Date Received: Sep27 1990 Lab Number : 15596

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 15596 |
|---|---|---|---|---|---|
| Dilution_Factor | | 1 | - | - | 1 |
| Para-dichlorobenzene | ug/L | 0.5 | 105 | 6.62 | <0.50 |
| Vinyl chloride | ug/L | 1 | 95.8 | 5.00 | <1 |
| 1,1-dichloroethene | ug/L | 1 | 91.9 | 5.87 | <1 |
| 1,2-dichloroethane | ug/L | 1 | 104 | 3.86 | <1 |
| 1,1,1-trichloroethan | ug/L | 1 | 101 | 5.24 | <1 |
| Carbon tetrachloride | ug/L | 1 | 99.8 | 5.04 | <1 |
| Trichloroethene | ug/L | 1 | 101 | 5.32 | <1 |
| Tetrachloroethene | ug/L | 1 | 99.0 | 6.09 | <1 |
| Benzene | ug/L | 0.5 | 96.3 | 3.37 | <0.50 |
| | | | | | |
| Dilution_Factor | | 1 | - | - | 1 |
| Chloromethane | ug/L | 1 | 95.3 | 5.00 | <1 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



NEWBURYPORT & 2nd ST. P.O. BOX 150597, ALTAMONTE SPRINGS, FLA. 32715-0597

Jefferson L. Flowers, Ph.D.
-Jefferson S. Flowers, Ph.D.

Ph. (407) 339-5984
Fax (407) 260-6110

# FLOWERS CHEMICAL LABORATORIES, INC.

## ANALYTICAL & CONSULTING CHEMISTS

Received From: S.S.U.
7177 U.International
Homosassa,FL 32646

Date Reported: Oct11 1990
PO Number: n/a
PO Number Sugarmill Woo
FDHRS Lab# : 83139
FDER Lab# : EB3018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WELL 6,8,9
Date Received: Sep27 1990 Lab Number : 15597

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 15597 |
|---|---|---|---|---|---|
| Dilution_Factor | | 1 | - | - | 1 |
| Para-dichlorobenzene | ug/L | 0.5 | 105 | 6.62 | <0.50 |
| Vinyl chloride | ug/L | 1 | 95.8 | 5.00 | <1 |
| 1,1-dichloroethene | ug/L | 1 | 91.9 | 5.87 | <1 |
| 1,2-dichloroethane | ug/L | 1 | 104 | 3.86 | <1 |
| 1,1,1-trichloroethan | ug/L | 1 | 101 | 5.24 | <1 |
| Carbon tetrachloride | ug/L | 1 | 99.8 | 5.04 | <1 |
| Trichloroethene | ug/L | 1 | 101 | 5.32 | <1 |
| Tetrachloroethene | ug/L | 1 | 99.0 | 6.09 | <1 |
| Benzene | ug/L | 0.5 | 96.3 | 3.37 | <0.50 |
| - | | - | | | - |
| Dilution_Factor | | 1 | - | - | 1 |
| Chloromethane | ug/L | | 95.8 | 5.00 | <1 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



NEWBURYPORT & 2nd ST., P.O. BOX 150597, ALTAMONTE SPRINGS, FLA. 32715-0597

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.

Ph. (407) 339-5984
Fax (407) 260-6110

# FLOWERS CHEMICAL LABORATORIES, INC.

## ANALYTICAL & CONSULTING CHEMISTS

Received From:
S.S.U.
7177 W. International
Homosassa,FL 32646

Date Reported: Oct11 1990
PO Number: n/a
PO Number Sugarmill Woo
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WELL 1.2.5
Date Received: Sep27 1990 Lab Number : 15596

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 15596 |
|---|---|---|---|---|---|
| Dichlorodifluorometh | ug/L | 1 | 94.7 | 6.45 | <1 |
| Bromomethane | ug/L | 1 | 95.8 | 5.00 | <1 |
| Chloroethane | ug/L | 1 | 95.8 | 5.00 | <1 |
| Trichlorofluorometha | ug/L | 1 | 94.7 | 6.45 | <1 |
| trans-1,3,-dichlorop | ug/L | 1 | 99.0 | 2.86 | <1 |
| cis-1,3-dichloroprop | ug/L | 1 | 98.9 | 4.27 | <1 |
| Methyl-tert-butyleth | ug/L | 1 | 99.4 | 2.66 | <1 |
| cis-1,2-dichloroethe | ug/L | 1 | 99.9 | 4.36 | <1 |
| Dibromomethane | ug/L | 1 | 102 | 4.56 | <1 |
| 1,1-dichloropropene | ug/L | 1 | 101 | 5.24 | <1 |
| 1,3-dichloropropane | ug/L | 3 | 99.0 | 6.09 | <3 |
| 1,2,3-trichloropropa | ug/L | 3 | 104 | 3.79 | <3 |
| 2,2-dichloropropane | ug/L | 0.5 | 101 | 3.80 | <0.50 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



NEWBURYPORT & 2nd ST., P.O. BOX 150597, ALTAMONTE SPRINGS, FLA. 32715-0597

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.

Ph. (407) 339-5982
Fax (407) 260-6110

# FLOWERS CHEMICAL LABORATORIES, INC.

## ANALYTICAL & CONSULTING CHEMISTS

Received From S.S.U. International
Homosassa, FL 32646

Date Reported: Oct11 1990
PO Number: n/a
PO Number Sugarmill Woo
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WELL 6,8,9
Date Received: Sep27 1990 Lab Number : 15597

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 15597 |
|---|---|---|---|---|---|
| Dichlorodifluorometh | ug/L | 1 | 94.7 | 6.45 | <1 |
| Bromomethane | ug/L | 1 | 95.8 | 5.00 | <1 |
| Chloroethane | ug/L | 1 | 95.8 | 5.00 | <1 |
| Trichlorofluorometha | ug/L | 1 | 94.7 | 6.45 | <1 |
| trans-1,3,-dichlorop | ug/L | 1 | 99.0 | 2.86 | <1 |
| cis-1,3-dichloroprop | ug/L | 1 | 98.9 | 4.27 | <1 |
| Methyl-tert-butyleth | ug/L | 1 | 99.4 | 2.66 | <1 |
| cis-1,2-dichloroethe | ug/L | 1 | 99.9 | 4.36 | <1 |
| Dibromomethane | ug/L | 1 | 102 | 4.56 | <1 |
| 1,1-dichloropropene | ug/L | 1 | 101 | 5.24 | <1 |
| 1,3-dichloropropane | ug/L | 3 | 9.0 | 6.09 | <3 |
| 1,2,3-trichloropropa | ug/L | 3 | 104 | 3.79 | <3 |
| 2,2-dichloropropane | ug/L | 0.5 | 101 | 3.80 | <0.50 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



NEWBURYPORT & 2nd ST., P.O. BOX 150597, ALTAMONTE SPRINGS, FLA. 32715-0597

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.

Ph. (407) 339-5984
Fax (407) 260-6110

# FLOWERS CHEMICAL LABORATORIES, INC.

## ANALYTICAL & CONSULTING CHEMISTS

Received From: S.S.U.
7177 W.International
Homosassa,FL 32646

Date Reported: Oct11 1990
PO Number: n/a
PO Number Sugarmill Woo
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WELL 1,2,5
Date Received: Sep27 1990 Lab Number : 15596

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 15596 |
|---|---|---|---|---|---|
| 1,2-dibromo-3-chloro | ug/L | 3 | 106 | 4.83 | <3 |
| Chloroform | ug/L | 5 | 99.9 | 4.36 | <5 |
| Bromoform | ug/L | 0.5 | 103 | 4.23 | <0.50 |
| Bromodichloromethane | ug/L | 0.5 | 102 | 4.56 | <0.50 |
| Dibromochloromethane | ug/L | 0.5 | 103 | 4.44 | <0.50 |
| p-xylene | ug/L | 0.5 | 96.6 | 2.18 | <0.50 |
| Methylene chloride | ug/L | 0.5 | 98.4 | 5.42 | <0.50 |
| o-chlorotoluene | ug/L | 0.5 | 98.5 | 1.88 | <0.50 |
| p-chlorotoluene | ug/L | 0.5 | 98.5 | 1.88 | <0.50 |
| m-dichlorobenzene | ug/L | 1 | 97.4 | 2.45 | <1 |
| o-dichlorobenzene | ug/L | 1 | 98.5 | 1.88 | <1 |
| 1,1-dichloroethane | ug/L | 1 | 101 | 3.80 | <1 |
| trans-1,2-dichloroet | ug/L | 2 | 94.4 | 5.49 | <2 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



NEWBURYPORT & 2nd ST., P.O. BOX 150597, ALTAMONTE SPRINGS, FLA. 32715-0597

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.

Ph. (407) 339-5984
Fax (407) 260-6110

# FLOWERS CHEMICAL LABORATORIES, INC.

## ANALYTICAL & CONSULTING CHEMISTS

Received From:
S.S.U.
2177 W. International
Homosassa, FL 32646

Date Reported: Oct11 1990
PO Number: n/a
PO Number Sugarmill Woo
FDHRS Lab# : 83139
FDER Lab# : EB3018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WELL 6,8,9
Date Received: Sep27 1990 Lab Number : 15597

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 15597 |
|---|---|---|---|---|---|
| 1,2-dibromo-3-chloro | ug/L | 3 | 106 | 4.83 | <3 |
| Chloroform | ug/L | 5 | 99.9 | 4.36 | <5 |
| Bromoform | ug/L | 0.5 | 103 | 4.23 | <0.50 |
| Bromodichloromethane | ug/L | 0.5 | 102 | 4.56 | <0.50 |
| Dibromochloromethane | ug/L | 0.5 | 103 | 4.44 | <0.50 |
| p-xylene | ug/L | 0.5 | 96.6 | 2.18 | <0.50 |
| Methylene chloride | ug/L | 0.5 | 98.4 | 5.42 | <0.50 |
| o-chlorotoluene | ug/L | 0.5 | 98.5 | 1.88 | <0.50 |
| p-chlorotoluene | ug/L | 0.5 | 98.5 | 1.88 | <0.50 |
| m-dichlorobenzene | ug/L | 1 | 97.4 | 2.45 | <1 |
| o-dichlorobenzene | ug/L | 1 | 98.5 | 1.88 | <1 |
| 1,1-dichloroethane | ug/L | 1 | 101 | 3.80 | <1 |
| trans-1,2-dichloroet | ug/L | 2 | 94.4 | 5.49 | <2 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



NEWBURYPORT & 2nd ST., P.O. BOX 150597, ALTAMONTE SPRINGS, FLA. 32715-0597

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.

Ph. (407) 339-5984
Fax (407) 260-6110

# FLOWERS CHEMICAL LABORATORIES, INC.

## ANALYTICAL & CONSULTING CHEMISTS

Received From: S.S.U.
717 W. International
Homosassa, FL 32646

Date Reported: Oct11 1990
PO Number: n/a
PO Number Sugarmill Woo
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WELL 1,2,5
Date Received: Sep27 1990 Lab Number : 15596

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 15596 |
|---|---|---|---|---|---|
| 1,2-dichloropropane | ug/L | 1 | 102 | 4.24 | <1 |
| 1,1,2-trichloroethan | ug/L | 1 | 105 | 4.94 | <1 |
| 1,1,1,2-tetrachloroe | ug/L | 1 | 94.8 | 3.15 | <1 |
| 1,1,2,2-tetrachloroe | ug/L | 1 | 104 | 3.79 | <1 |
| Chlorobenzene | ug/L | 1 | 94.8 | 3.15 | <1 |
| Toluene | ug/L | 1 | 95.2 | 3.11 | <1 |
| Ethylbenzene | ug/L | 1 | 99.1 | 3.78 | <1 |
| Bromobenzene | ug/L | 1 | 94.8 | 3.15 | <1 |
| m-xylene | ug/L | 1 | 96.9 | 3.52 | <1 |
| Styrene | ug/L | 0.5 | 96.9 | 3.52 | <0.50 |
| o-xylene | ug/L | 0.5 | 96.9 | 2.18 | <0.50 |
| - | | - | | | - |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



NEWBURYPORT & 2nd ST., P.O. BOX 150597, ALTAMONTE SPRINGS, FLA. 32715-0597

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.

Ph. (407) 339-5984
Fax (407) 260-6110

# FLOWERS CHEMICAL LABORATORIES, INC.

## ANALYTICAL & CONSULTING CHEMISTS

Received From: S.S.U.
7177 W.International
Homosassa,FL 32646

Date Reported: Oct11 1990
PO Number: n/a
PO Number Sugarmill Woo
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WELL 6,8,9
Date Received: Sep27 1990 Lab Number : 15597

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 15597 |
|---|---|---|---|---|---|
| 1,2-dichloropropane | ug/L | 1 | 102 | 4.24 | <1 |
| 1,1,2-trichloroethan | ug/L | 1 | 105 | 4.94 | <1 |
| 1,1,1,2-tetrachloroe | ug/L | 1 | 94.8 | 3.15 | <1 |
| 1,1,2,2-tetrachloroe | ug/L | 1 | 104 | 3.79 | <1 |
| Chlorobenzene | ug/L | 1 | 94.8 | 3.15 | <1 |
| Toluene | ug/L | 1 | 95.2 | 3.11 | <1 |
| Ethylbenzene | ug/L | 1 | 99.1 | 3.78 | <1 |
| Bromobenzene | ug/L | 1 | 94.8 | 3.15 | <1 |
| m-xylene | ug/L | 1 | 96.9 | 3.52 | <1 |
| Styrene | ug/L | 0.5 | 96.9 | 3.52 | <0.50 |
| o-xylene | ug/L | 0.5 | 96.6 | 2.18 | <0.50 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



NEWBURYPORT & 2nd ST.. P.O. BOX 50597. ALTAMONTE SPRINGS. FLA. 32715-0597

## Volatile Organic Analysis
## 17-550.310(2)(d)
## (PWS029)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 15596 | .00002 | <0.005 | EPA504.1 | 0.005 | 10/9/90 |
| 2969 | Para-dichlorobenzene | 15596 | .075 | <0.5 | EPA502.2 | 0.5 | 10/9/90 |
| 2976 | Vinyl chloride | 15596 | 0.001 | <1 | EPA502.2 | 1 | 10/9/90 |
| 2977 | 1,1-dichloroethene | 15596 | 0.007 | <1 | EPA502.2 | 1 | 10/9/90 |
| 2980 | 1,2-dichloroethane | 15596 | 0.003 | <1 | EPA502.2 | 1 | 10/9/90 |
| 2981 | 1,1,1-trichloroethane | 15596 | 0.2 | <1 | EPA502.2 | 1 | 10/9/90 |
| 2982 | Carbon tetrachloride | 15596 | 0.003 | <1 | EPA502.2 | 1 | 10/9/90 |
| 2984 | Trichloroethene | 15596 | 0.003 | <1 | EPA502.2 | 1 | 10/9/90 |
| 2987 | Tetrachloroethene | 15596 | 0.003 | <1 | EPA502.2 | 1 | 10/9/90 |
| 2990 | Benzene | 15596 | 0.001 | <1 | EPA502.2 | 1 | 10/9/90 |

Comments:

## Unregulated Organic Purgeable Analysis
## 17-550.410(1)
## (PWS034)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2210 | Chloromethane | 15596 | | <1 | EPA502.2 | 1 | 10/9/90 |
| 2212 | Dichlorodifluoromethane | 15596 | | <1 | EPA502.2 | 1 | 10/9/90 |
| 2214 | Bromomethane | 15596 | | <1 | EPA502.2 | 1 | 10/9/90 |
| 2216 | Chloroethane | 15596 | | <1 | EPA502.2 | 1 | 10/9/90 |
| 2218 | Trichlorofluoromethane | 15596 | | <1 | EPA502.2 | 1 | 10/9/90 |
| 2224 | trans-1,2-dichloroethene | 15596 | | <1 | EPA502.2 | 1 | 10/9/90 |
| 2228 | cis-1,2-dichloroethene | 15596 | | <1 | EPA502.2 | 1 | 10/9/90 |
| 2251 | Methyl-tert-butylether | 15596 | | <1 | EPA502.2 | 1 | 10/9/90 |
| 2380 | cis-1,2-dichloroethene | 15596 | | <1 | EPA502.2 | 1 | 10/9/90 |
| 2408 | Dibromomethane | 15596 | | <1 | EPA502.2 | 1 | 10/9/90 |
| 2410 | 1,1-dichloropropene | 15596 | | <1 | EPA502.2 | 1 | 10/9/90 |
| 2412 | 1,3-dichloropropane | 15596 | | <3 | EPA502.2 | 3 | 10/9/90 |
| 2414 | 1,2,3-trichloropropane | 15596 | | <3 | EPA502.2 | 3 | 10/9/90 |
| 2416 | 2,2-dichloropropane | 15596 | | <0.5 | EPA502.2 | 0.5 | 10/9/90 |
| 2931 | 1,2-dibromo-3-chloropr | 15596 | | <3 | EPA502.2 | 3 | 10/9/90 |
| 2941 | Chloroform | 15596 | | <5 | EPA502.2 | 5 | 10/9/90 |
| 2942 | Bromoform | 15596 | | <0.5 | EPA502.2 | 1 | 10/9/90 |
| 2943 | Bromodichloromethane | 15596 | | <0.5 | EPA502.2 | 1 | 10/9/90 |
| 2944 | Dibromochloromethane | 15596 | | <0.5 | EPA502.2 | 0.5 | 10/9/90 |
| 2962 | p-xylene | 15596 | | <0.5 | EPA502.2 | 0.5 | 10/9/90 |
| 2964 | Methylene chloride | 15596 | | <0.5 | EPA502.2 | 0.5 | 10/9/90 |
| 2965 | o-chlorotoluene | 15596 | | <0.5 | EPA502.2 | 0.5 | 10/9/90 |
| 2966 | p-chlorotoluene | 15596 | | <0.5 | EPA502.2 | 0.5 | 10/9/90 |
| 2967 | m-dichlorobenzene | 15596 | | <1 | EPA502.2 | 1 | 10/9/90 |
| 2968 | o-dichlorobenzene | 15596 | | <1 | EPA502.2 | 1 | 10/9/90 |
| 2978 | 1,1-dichloroethane | 15596 | | <1 | EPA502.2 | 1 | 10/9/90 |
| 2979 | trans-1,2-dichloroethyl | 15596 | | <2 | EPA502.2 | 2 | 10/9/90 |
| 2983 | 1,2-dichloropropane | 15596 | | <1 | EPA502.2 | 1 | 10/9/90 |
| 2985 | 1,1,2-trichloroethane | 15596 | | <1 | EPA502.2 | 1 | 10/9/90 |
| 2986 | 1,1,1,2-tetrachloroetha | 15596 | | <1 | EPA502.2 | 1 | 10/9/90 |
| 2988 | 1,1,2,2-tetrachloroetha | 15596 | | <1 | EPA502.2 | 1 | 10/9/90 |
| 2989 | Chlorobenzene | 15596 | | <1 | EPA502.2 | 1 | 10/9/90 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 2991 | Toluene | 15596 | <1 | EPA502.2 | 1 | 10/9/90 |
| 2992 | Ethylbenzene | 15596 | <1 | EPA502.2 | 1 | 10/9/90 |
| 2993 | Bromobenzene | 15596 | <1 | EPA502.2 | 1 | 10/9/90 |
| 2995 | m-xylene | 15596 | <1 | EPA502.2 | 1 | 10/9/90 |
| 2996 | Styrene | 15596 | <0.5 | EPA502.2 | 0.50 | 10/9/90 |
| 2997 | o-xylene | 15596 | <0.5 | EPA502.2 | 0.50 | 10/9/90 |

Comments:

## Volatile Organic Analysis
17-[illegible]
(PWS028)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 15597 | .00002 | <0.005 | EPA504.1 | 0.005 | 10/9/90 |
| 2969 | Para-dichlorobenzene | 15597 | .075 | <0.5 | EPA502.2 | 0.5 | 10/9/90 |
| 2976 | Vinyl chloride | 15597 | 0.001 | <1 | EPA502.2 | 1 | 10/9/90 |
| 2977 | 1,1-dichloroethene | 15597 | 0.007 | <1 | EPA502.2 | 1 | 10/9/90 |
| 2980 | 1,2-dichloroethane | 15597 | 0.003 | <1 | EPA502.2 | 1 | 10/9/90 |
| 2981 | 1,1,1-trichloroethane | 15597 | 0.2 | <1 | EPA502.2 | 1 | 10/9/90 |
| 2982 | Carbon tetrachloride | 15597 | 0.003 | <1 | EPA502.2 | 1 | 10/9/90 |
| 2984 | Trichloroethene | 15597 | 0.003 | <1 | EPA502.2 | 1 | 10/9/90 |
| 2987 | Tetrachloroethene | 15597 | 0.003 | <1 | EPA502.2 | 1 | 10/9/90 |
| 2990 | Benzene | 15597 | 0.001 | <1 | EPA502.2 | 1 | 10/9/90 |

Comments:

## Unregulated Organic Purgeable Analysis
17-550.410(1)
(PWS034)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2210 | [illegible] | 15597 | | <1 | EPA502.2 | 1 | 10/9/90 |
| 2212 | [illegible] | 15597 | | <1 | EPA502.2 | 1 | 10/9/90 |
| 2214 | [illegible] | 15597 | | <1 | EPA502.2 | 1 | 10/9/90 |
| 2216 | [illegible] | 15597 | | <1 | EPA502.2 | 1 | 10/9/90 |
| 2218 | [illegible] | 15597 | | <1 | EPA502.2 | 1 | 10/9/90 |
| 2224 | [illegible] | 15597 | | <1 | EPA502.2 | 1 | 10/9/90 |
| 2228 | [illegible] | 15597 | | <1 | EPA502.2 | 1 | 10/9/90 |
| 2251 | [illegible] | 15597 | | <1 | EPA502.2 | 1 | 10/9/90 |
| 2380 | [illegible] | 15597 | | <1 | EPA502.2 | 1 | 10/9/90 |
| 2408 | Dibromomethane | 15597 | | <1 | EPA502.2 | 1 | 10/9/90 |
| 2410 | 1,1-dichloropropene | 15597 | | <1 | EPA502.2 | 1 | 10/9/90 |
| 2412 | 1,3-dichloropropane | 15597 | | <3 | EPA502.2 | 3 | 10/9/90 |
| 2414 | 1,2,3-trichloropropane | 15597 | | <3 | EPA502.2 | 3 | 10/9/90 |
| 2416 | 2,2-dichloropropane | 15597 | | <0.5 | EPA502.2 | 0.5 | 10/9/90 |
| 2931 | 1,2-dibromo-3-chloropr | 15597 | | <3 | EPA502.2 | 3 | 10/9/90 |
| 2941 | Chloroform | 15597 | | <5 | EPA502.2 | 5 | 10/9/90 |
| 2942 | Bromoform | 15597 | | <0.5 | EPA502.2 | 1 | 10/9/90 |
| 2943 | Bromodichloromethane | 15597 | | <0.5 | EPA502.2 | 1 | 10/9/90 |
| 2944 | Dibromochloromethane | 15597 | | <0.5 | EPA502.2 | 0.5 | 10/9/90 |
| 2962 | p-xylene | 15597 | | <0.5 | EPA502.2 | 0.5 | 10/9/90 |
| 2964 | Methylene chloride | 15597 | | <0.5 | EPA502.2 | 0.5 | 10/9/90 |
| 2965 | o-chlorotoluene | 15597 | | <0.5 | EPA502.2 | 0.5 | 10/9/90 |
| 2966 | p-chlorotoluene | 15597 | | <0.5 | EPA502.2 | 0.5 | 10/9/90 |
| 2967 | m-dichlorobenzene | 15597 | | <1 | EPA502.2 | 1 | 10/9/90 |
| 2968 | o-dichlorobenzene | 15597 | | <1 | EPA502.2 | 1 | 10/9/90 |
| 2978 | 1,1-dichloroethane | 15597 | | <1 | EPA502.2 | 1 | 10/9/90 |
| 2979 | trans-1,2-dichloroethyl | 15597 | | <2 | EPA502.2 | 2 | 10/9/90 |
| 2983 | 1,2-dichloropropane | 15597 | | <1 | EPA502.2 | 1 | 10/9/90 |
| 2985 | 1,1,2-trichloroethane | 15597 | | <1 | EPA502.2 | 1 | 10/9/90 |
| 2986 | 1,1,1,2-tetrachloroetha | 15597 | | <1 | EPA502.2 | 1 | 10/9/90 |
| 2988 | 1,1,2,2-tetrachloroetha | 15597 | | <1 | EPA502.2 | 1 | 10/9/90 |
| 2989 | Chlorobenzene | 15597 | | <1 | EPA502.2 | 1 | 10/9/90 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 2991 | Toluene | 15597 | <1 | EPA502.2 | 1 | 10/9/90 |
| 2992 | Ethylbenzene | 15597 | <1 | EPA502.2 | 1 | 10/9/90 |
| 2993 | Bromobenzene | 15597 | <1 | EPA502.2 | 1 | 10/9/90 |
| 2995 | m-xylene | 15597 | <1 | EPA502.2 | 1 | 10/9/90 |
| 2996 | Styrene | 15597 | <0.5 | EPA502.2 | 0.50 | 10/9/90 |
| 2997 | o-xylene | 15597 | <0.5 | EPA502.2 | 0.50 | 10/9/90 |

Comments:

FLOWERS CHEMICAL LABORATORIES INCORPORATED

ANALYTICAL & CONSULTING CHEMISTS
CHAIN OF CUSTODY RECORD

John Levesque

CLIENT: S.S.U. Services
ADDRESS: 717 W. International Pkwy Unit 5 Lake Mary FL 32746
PHONE: 904-382-4442
PROJECT NAME: Sugarmill Woods
REQUIRED: ☐ Urgent ☐ Routine
DATE:

| Sample Containers QTY | Preservative: HNO3 | H2SO4 | HCl | Na2S2O3 | Zn(C2H3O2)/NaOH | NaOH/AscAcid | Plastic Containers: 60mL | 125mL | 250mL | 500mL | 1L | 2L | Whirl-Pak Bag | Glass Containers: 40mL Vial | 250mL | 500mL | 1L | 2L | 4L | NOTES: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 19 | | | | | | | | | | | | | | X | | | | | | |

Relinquished: Date: 9/27/90 Time: 12:40
Received: Kit Received: Date: Time:

each Well (composite into 2 samples)
Kit 1 Kit 2 Preservation

| | | | |
|---|---|---|---|
| 15596 | Well #1 | A, B, + C | Composite |
| | Well #2 | A, B, + C | |
| | Well #5 | A, B, + C | |
| 15597 | Well #6 | A, B, + C | Composite |
| | Well #8 | A, B, + C | |
| | Well #9 | A, B, C | |

| | | Date | Time |
|---|---|---|---|
| Sample Collection | Sugar Mill Woods | 9-26-90 | 10:00 |
| Transportation | | | |
| Lab Acceptance | Pam Peers | 9/27 | 12:50 |

Page 1 of 1

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
Southern States
7177 W.International
Homosassa,FL 32646

Date Reported: Dec24 1990
PO Number: Sugar Mill No
PO Number So. States
FDHRS Lab# : 88139
FDER Lab# : EB3018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: Well 1,2&5
Date Received: Dec12 1990 Lab Number : 15823

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 15823 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.0000050 | 94.5 | 4.99 | <.00000500 |
| Para-dichlorobenzene | mg/L | 0.0010 | 102 | 0.80 | <0.00100 |
| Vinyl chloride | mg/L | 0.0010 | 111 | 1.94 | <0.00100 |
| 1,1-dichloroethene | mg/L | 0.0010 | 111 | 1.94 | <0.00100 |
| 1,2-dichloroethane | mg/L | 0.0010 | 111 | 1.94 | <0.00100 |
| 1,1,1-trichloroethan | mg/L | 0.0010 | 102 | 0.20 | <0.00100 |
| Carbon tetrachloride | mg/L | 0.0010 | 102 | 1.46 | <0.00100 |
| Trichloroethene | mg/L | 0.0010 | 107 | 6.70 | <0.00100 |
| Tetrachloroethene | mg/L | 0.0010 | 101 | 3.52 | <0.00100 |
| Benzene | mg/L | 0.0010 | 93.5 | 2.76 | <0.00100 |

Date Release Authorization

Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984
FAX (407) 260-6910

Volatile Organic Analysis
17-550.310(2)(d)
(PWS029)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 15823 | .00002 | <.000005 | EPA504.1 | .000005 | 12/20/90 |
| 2969 | Para-dichlorobenzene | 15823 | .075 | <0.001 | EPA502.2 | 0.001 | 12/20/90 |
| 2976 | Vinyl chloride | 15823 | 0.001 | <0.001 | EPA502.2 | 0.001 | 12/20/90 |
| 2977 | 1,1-dichloroethene | 15823 | 0.007 | <0.001 | EPA502.2 | 0.001 | 12/20/90 |
| 2980 | 1,2-dichloroethane | 15823 | 0.003 | <0.001 | EPA502.2 | 0.001 | 12/20/90 |
| 2981 | 1,1,1-trichloroethane | 15823 | 0.2 | <0.001 | EPA502.2 | 0.001 | 12/20/90 |
| 2982 | Carbon tetrachloride | 15823 | 0.003 | <0.001 | EPA502.2 | 0.001 | 12/20/90 |
| 2984 | Trichloroethene | 15823 | 0.003 | <0.001 | EPA502.2 | 0.001 | 12/20/90 |
| 2987 | Tetrachloroethene | 15823 | 0.003 | <0.001 | EPA502.2 | 0.001 | 12/20/90 |
| 2990 | Benzene | 15823 | 0.001 | <0.001 | EPA502.2 | 0.001 | 12/20/90 |

Comments:

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 6091735
Public Water System Name S.S.U. Services (Sugarmill Woods)
Public Water System Type (check one):
(X)Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyz: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY): 12-12-90
Laboratory Sample Number 15823
Sample Location (be specific): Wells 1,2&5 Sugarmill Woods
Sample Type (check all applicable):
( )Check ( )Regular Distribution (X)Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
(X)Raw (X)Well ( )Resample
( )Special Tom Senger Oper. II
Sampler Name, Title Phone: 904 - 362-4491

**ANALYSIS INFORMATION**
Extraction Date __/__/____
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTED Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature: _____

Name Dr Jefferson S Flowers

Title Technical Director

Laboratory Flowers Chemical Laboratories,Inc.

Date 12/21/90

Mail Results to the
Appropriate DER or ACPHU Office:

_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 06/01/8 () Satisfactory () Unsatisfactory

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:
Southern States
7177 W.International
Homossassa,FL 32646

Date Reported: Dec24 1990
PO Number: Sugar Mill Wo
PO Number So. States
FDHRS Lab# : 83139
FDER Lab# : ES3018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: Well 6,8&9
Date Received: Dec12 1990 Lab Number : 15824

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 15824 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.0000050 | 94.5 | 4.99 | <.00000500 |
| Para-dichlorobenzene | mg/L | 0.0010 | 102 | 0.80 | <0.00100 |
| Vinyl chloride | mg/L | 0.0010 | 111 | 1.94 | <0.00100 |
| 1,1-dichloroethene | mg/L | 0.0010 | 111 | 1.94 | <0.00100 |
| 1,2-dichloroethane | mg/L | 0.0010 | 111 | 1.94 | <0.00100 |
| 1,1,1-trichloroethan | mg/L | 0.0010 | 102 | 0.20 | <0.00100 |
| Carbon tetrachloride | mg/L | 0.0010 | 102 | 1.46 | <0.00100 |
| Trichloroethene | mg/L | 0.0010 | 107 | 6.70 | <0.00100 |
| Tetrachloroethene | mg/L | 0.0010 | 101 | 3.52 | <0.00100 |
| Benzene | mg/L | 0.0010 | 93.5 | 2.76 | <0.00100 |

Data Release Authorization

Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director

Page 2 of 4

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P O BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984
FAX (407) 260-0110

Volatile Organic Analysis
17-550.310(2)(d)
(PWS029)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 15824 | .00002 | <.000005 | EPA504.1 | .000005 | 12/20/90 |
| 2969 | Para-dichlorobenzene | 15824 | .075 | <0.001 | EPA502.2 | 0.001 | 12/20/90 |
| 2976 | Vinyl chloride | 15824 | 0.001 | <0.001 | EPA502.2 | 0.001 | 12/20/90 |
| 2977 | 1,1-dichloroethene | 15824 | 0.007 | <0.001 | EPA502.2 | 0.001 | 12/20/90 |
| 2980 | 1,2-dichloroethane | 15824 | 0.003 | <0.001 | EPA502.2 | 0.001 | 12/20/90 |
| 2981 | 1,1,1-trichloroethane | 15824 | 0.2 | <0.001 | EPA502.2 | 0.001 | 12/20/90 |
| 2982 | Carbon tetrachloride | 15824 | 0.003 | <0.001 | EPA502.2 | 0.001 | 12/20/90 |
| 2984 | Trichloroethene | 15824 | 0.003 | <0.001 | EPA502.2 | 0.001 | 12/20/90 |
| 2987 | Tetrachloroethene | 15824 | 0.003 | <0.001 | EPA502.2 | 0.001 | 12/20/90 |
| 2990 | Benzene | 15824 | 0.001 | <0.001 | EPA502.2 | 0.001 | 12/20/90 |

Comments:

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 6091735
Public Water System Name S.S.U. Services (Sugar M.H. Woods)
Public Water System Type (check one):
(X)Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyz: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY): 12-12-90
Laboratory Sample Number 15824
Sample Location (be specific): Wells 6, 3 & 9 (Sugar M.H. Woods)
Sample Type (check all applicable):
( )Check ( )Regular Distribution (X)Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
(X)Raw (X)Well ( )Resample
( )Special_____
Sampler Name, Title Phone: Tom Seager Operator II
904-382-4441

**ANALYSIS INFORMATION**
Extraction Date ___/___/___
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTEC Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature:_____

Name Dr. Jefferson S Flowers

Title Technical Director

Laboratory Flowers Chemical Laboratories,Inc.

Date 12/21/90

Mail Results to the
Appropriate DER or ACPHU Office:

_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 06/01/9 () Satisfactory () Unsatisfactory

FLOWERS CHEMICAL LABORATORIES INCORPORATED

ANALYTICAL & CONSULTING CHEMISTS

# CHAIN OF CUSTODY RECORD

| CLIENT | ADDRESS | PHONE |
|---|---|---|
| Southern States | 7177 W. International Ct Homosassa, 32646 #3 | 904-382-4441 |
| PROJECT NAME: Sugarmill Woods | REQUIRED: ☐ Urgent ☒ Routine | DATE 12-12-90 |

| Sample Containers QTY | Preservative: HNO3 | H2SO4 | HCl | Na2S2O3 | Zn(C2H3O2)/NaOH | NaOH/AscAcid | Plastic Containers: 60mL | 125mL | 250mL | 500mL | 1L | 2L | Whirl-Pak Bag | Glass Containers: 40mL Vial | 250mL | 500mL | 1L | 2L | 4L | NOTES: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | | | | | | | | | | | | | | X | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |

| Kit Relinquished: | Date: Time: | Kit Received: | Date: Time: |
|---|---|---|---|
| | | | |

Parameters: volatile organics

| Laboratory Number | Client Identification/Description |
|---|---|
| 15823 | Well # 1, Well # 2, Well # 5 — Composite |
| 15824 | Well # 6, Well # 8, Well # 9 — Composite |
| | Att: Mike Lane |

| | | Date | Time |
|---|---|---|---|
| Sample Collection: | Tom Senger | 12-12-90 | 9:00 AM |
| Transportation: | Tom Senger | 12-12-90 | |
| Lab Acceptance: | | 12/14/90 | 10:40 |

Page 1 of 1

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D

HRS

State of Florida
Department of Health and Rehabilitative Services
Office of Laboratory Services
P.O. Box 210
Jacksonville, Florida 32231

FOR LAB USE ONLY
Gulf Coast Water & WW Lab
5356 Hwy 19 S.
Homosassa, Fl 32646
Lab ID# 82349 John Rankin
12/5/91 11:45 Hrs

# DRINKING WATER BACTERIOLOGICAL ANALYSIS

SYSTEM NAME: S.S.U. Sugarmill Woods SYSTEM I.D. NO: 6091735 SYSTEM PHONE #: 726-4441

ADDRESS: 7177 W International Ct. U-3 COUNTY: Citrus DER DISTRICT: SW

COLLECTOR: Tom Seger COLLECTOR PHONE #: same

SAMPLE SITE (Locality or Subdivision): Sugarmill Woods

DATE AND TIME COLLECTED: 8AM-10AM 12-5-91

TYPE OF SUPPLY(Circle one): (Community water system) Noncommunity water system Nontransient - noncommunity water system
Private well Swimming pool Bottled water Other public water system

TYPE OF SAMPLE(Circle one): (Compliance) Repeat Replacement Main clearance Well survey Other _____ (Specify)
(Check Box)
[x] Distribution
[x] Raw

Replacement (Check Box)
[ ] TNTC or C
[ ] Turbid
[ ]

REMARKS:

| TO BE COMPLETED BY COLLECTOR OF SAMPLE | | | | TO BE COMPLETED BY LAB | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | ANALYSIS METHOD: (MF) MTF MMO-MUG PA | | | | |
| COL.. NO. | SAMPLE POINT (Specific Address) | Cl RES'D | pH | SAMPLE NUMBER | NON COLIFORM | *TOTAL | CONFIRM TOTAL | CONFIRM FECAL |
| 1 | Well #1 | | | 2695 A | | A | | |
| 2 | Well #2 | | | 2695 B | | A | | |
| 3 | WP Tank #1 | .7 | | 2695 C | | A | | |
| 4 | Well #5 | | | 2695 D | | A | | |
| 5 | Well #6 | | | 2695 E | | A | | |
| 6 | WP #2 Tank | 1.0 | | 2695 F | | A | | |
| 7 | Well #8 | | | 2695 G | | A | | |

* Results in this column are preliminary. Fecal coliform confirmation on community and noncommunity water systems and total coliform confirmation on all types of water systems will follow in 24-48 hours.

+ - Coliforms are present C - Confluent growth TA - Turbid, Absence of gas or acid
- - Coliforms are absent TNTC - Too numerous to count

INTERPRETATIONS-REMARKS BY PROGRAM REVIEWER

( )
(X) SATISFACTORY
( ) INCOMPLETE COLLECTION INFORMATION
( ) REPEAT SAMPLES
( ) REPLACEMENT SAMPLES

REVIEWING OFFICIAL: Brenda Ball

TITLE: EA

NAME AND MAILING ADDRESS OF PERSON/FIRM TO RECEIVE REPORT

S.S.U. Services, Inc
7177 W. International Ct. U-3
Homosassa, FL 32646
Att John + Tom

HRS Form 4058, Jan 91 (Obsoletes previous editions which may not be used.) (Stock Number 6160-002-4058-4)

HRS

State of Florida
Department of Health and Rehabilitative Services
Office of Laboratory Services
P.O. Box 210
Jacksonville, Florida 32231

FOR LAB USE ONLY
Gulf Coast Water & WW Lab
5356 Hwy. 19 S.
Homosassa, FL 32646
LAB ID # 82319

# DRINKING WATER BACTERIOLOGICAL ANALYSIS

SYSTEM NAME: SSU Sugarmill Woods SYSTEM I.D. NO: 6091775 SYSTEM PHONE #: 726-4411

ADDRESS: 7177 W. International Ct. U.3 Homosassa COUNTY: Citrus DER DISTRICT: SW

COLLECTOR: Tom Seeger COLLECTOR PHONE #: Same

SAMPLE SITE (Locality or Subdivision): Sugarmill Woods

DATE AND TIME COLLECTED: 7-15-91 AM 7-17-91

TYPE OF SUPPLY(Circle one): (Community water system) Noncommunity water system Nontransient - noncommunity water system
Private well Swimming pool Bottled water Other public water system

TYPE OF SAMPLE(Circle one): (Compliance) Repeat Replacement Rain clearance Well survey Other _____ (Specify)
(Check Box)
(Check Box)
[ ] Distribution [ ] TNTC [ ] Turbid
[ ] Raw

REMARKS:

| TO BE COMPLETED BY COLLECTOR OF SAMPLE | | | | TO BE COMPLETED BY LAB | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | ANALYSIS METHOD: | MF | MTF | MMO-MUG | P/A |
| COLL. NO. | SAMPLE POINT (Specific Address) | Cl RES'D | pH | SAMPLE NUMBER | NON COLIFORM | *TOTAL | CONFIRM TOTAL | CONFIRM FECA. |
| 10 | Maintenance Shop | .4 | | 2711 | | | | |
| 11 | Tennis Swim Center | .4 | | 2712 | | | | |
| 12 | Hosp. Mid. Center | .3 | | 2713 | | | | |
| 13 | 4 Glendye Ct. | .3 | | 2714 | | | | |
| 14 | 7 Calla Ct. | .3 | | 2715 | | | | |
| 15 | 8 Carnation Ct. E. | .3 | | 2716 | | | | |
| 16 | 65 Lone Pine St. | .4 | | 2717 | | | | |

* Results in this column are preliminary. Fecal coliform confirmation on community and noncommunity water systems and total coliform confirmation on all types of water systems will follow in 24-48 hours.

P - Coliforms are present TNTC - Too numerous to count TA - Turbid; Absence of gas or acid
A - Coliforms are absent Confluent growth

INTERPRETATIONS-REMARKS BY PROGRAM REVIEWER

NAME AND MAILING ADDRESS OF PERSON/FIRM TO RECEIVE REPORT

S.S.U. Services, Inc.
7177 W. International Ct. U.3
Homosassa, FL 32646
Att John & Tom

( )
(X) SATISFACTORY
( ) INCOMPLETE COLLECTION INFORMATION
( ) REPEAT SAMPLES
( ) REPLACEMENT SAMPLES

REVIEWING OFFICIAL: _____

TITLE: ED I

State of Florida
Department of Health and Rehabilitative Services
Office of Laboratory Services
P.O. Box 210
Jacksonville, Florida 32231

FOR LAB USE ONLY
Gulfcoast Water Testing
5356 Hwy 19
Hudson, Fla 34669
Lab ID# 82349 John Rundle
12/5/91 11:45 AM

# DRINKING WATER BACTERIOLOGICAL ANALYSIS

SYSTEM NAME: S.S.U. Sugarmill Woods SYSTEM I.D. NO: 6091735 SYSTEM PHONE #: 382-4441

ADDRESS: 7177 W. Tatum Rd Cl Homosassa COUNTY: Citrus DER DISTRICT: SWD

COLLECTOR: Tom Feagan COLLECTOR PHONE #: same

SAMPLE SITE (Locality or Subdivision): Sugarmill Woods

DATE AND TIME COLLECTED: 12/4/91 1:45 PM

TYPE OF SUPPLY(Circle one): (Community water system) Noncommunity water system Nontransient - noncommunity water system
Private well Swimming pool Bottled water Other public water system

TYPE OF SAMPLE(Circle one): (Compliance) Repeat Replacement Main clearance Well survey Other _____ (Specify)
(Check Box) (Check Box)
[x] Distribution [ ] TNTC or Cloudy/Turbid
[x] Raw

REMARKS:

| TO BE COMPLETED BY COLLECTOR OF SAMPLE | | | | TO BE COMPLETED BY LAB | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | ANALYSIS METHOD: (MF) MTF NMO-MUG PA | | | | |
| COLL. NO. | SAMPLE POINT (Specific Address) | Cl2 Residual | pH | SAMPLE NUMBER | NON COLIFORM | *TOTAL | CONFIRM TOTAL | CONFIRM FECAL |
| 3 | well # 9 | | | 26[illegible] H | | A | | |
| 9 | W.P. # 3 Tank | | | 26[illegible] F | | A | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

* Results in this column are preliminary. Fecal coliform confirmation on community and noncommunity water systems and total coliform confirmation on all types of water systems will follow in 24-48 hours.

+ - Coliforms are present C - Confluent growth TA - Turbid/Absence of gas or acid
- - Coliforms are absent TNTC - Too numerous to count

INTERPRETATIONS-REMARKS BY PROGRAM REVIEWER

HRS Form 665, Jan 91 (Obsolete previous editions which may be used) (Stock Number 5760-000-0665-1)

NAME AND MAILING ADDRESS OF PERSON/FIRM TO RECEIVE REPORT

S.S.U. Services, Inc.
7177 W Tatum Rd Cl. U-3
Homosassa, FL 34446
Att: John + Tom

( )
(X) SATISFACTORY
( ) INCOMPLETE COLLECTION INFORMATION
( ) REPEAT SAMPLES
( ) REPLACEMENT SAMPLES

REVIEWING OFFICIAL: Brenda Ball

TITLE: E&I

State of Florida
Department of Health and Rehabilitative Services
Office of Laboratory Services
P.O. Box 210
Jacksonville, Florida 32231

FOR LAB USE ONLY
Gulf Coast Wtr. + WW Lab
5356 Hwy 19 S.
Homosassa, Fl 32646
Lab ID# 82349 John Purdin
12/5/91 11:45 AM

# DRINKING WATER BACTERIOLOGICAL ANALYSIS

SYSTEM NAME: S.S.U. Sugar-mill Woods SYSTEM I.D. NO: 6091735 SYSTEM PHONE #: 726-4441

ADDRESS: 7177 W International Ct. U-3 COUNTY: Citrus DER DISTRICT: SWD

COLLECTOR: Tom Seager COLLECTOR PHONE #: [illegible]

SAMPLE SITE (Locality or Subdivision): Sugar-mill Woods

DATE AND TIME COLLECTED: 8 AM - 10 AM 12-5-91

TYPE OF SUPPLY(Circle one): (Community water system) Noncommunity water system Nontransient - noncommunity water system
Private well Swimming pool Bottled water Other public water system

TYPE OF SAMPLE(Circle one): (Compliance) Repeat Replacement Main clearance Well survey Other _____ (Specify)
(Check Box)
[X] Distribution
[X] Raw

(Check Box)
[ ] TNTC or C
[ ] Turbid
[ ]

REMARKS:

| TO BE COMPLETED BY COLLECTOR OF SAMPLE | | | | TO BE COMPLETED BY LAB | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | ANALYSIS METHOD: (MF) MTF MMO-MUG PA | | | | |
| COLL. NO. | SAMPLE POINT (Specific Address) | Cl RES'D | pH | SAMPLE NUMBER | NON COLIFORM | *TOTAL | CONFIRM TOTAL | CONFIRM FECAL |
| 1 | Well #1 | | | 2695 A | | A | | |
| 2 | Well #2 | | | 2695 B | | A | | |
| 3 | WP Tank #1 | .7 | | 2695 C | | A | | |
| 4 | Well #5 | | | 2695 D | | A | | |
| 5 | Well #6 | | | 2695 E | | A | | |
| 6 | WP #2 Tank | 1.0 | | 2695 F | | A | | |
| 7 | Well #8 | | | 2695 G | | A | | |

* Results in this column are preliminary. Fecal coliform confirmation on community and noncommunity water systems and total coliform confirmation on all types of water systems will follow in 24-48 hours.

+ - Coliforms are present C - Confluent growth TA - Turbid, Absence of gas or acid
- - Coliforms are absent TNTC - Too numerous to count

INTERPRETATIONS-REMARKS BY PROGRAM REVIEWER

NAME AND MAILING ADDRESS OF PERSON/FIRM TO RECEIVE REPORT

S.S.U. Services, Inc.
7177 W. International Ct. U-3
Hernando, FL 32644
Att Jake + Tom

( )
(X) SATISFACTORY
( ) INCOMPLETE COLLECTION INFORMATION
( ) REPEAT SAMPLES
( ) REPLACEMENT SAMPLES

REVIEWING OFFICIAL: Brenda Ball

TITLE: EA II

HRS Form 645, Jan 81 (Obsoletes previous editions which may not be used.) [Stock Number: 0160-000-0645-5]

HRS

State of Florida
Department of Health and Rehabilitative Services
Office of Laboratory Services
P.O. Box 210
Jacksonville, Florida 32231

FOR LAB USE ONLY
Gulf Coast Water & WW Lab
5356 Hwy. 19 S.
Homosassa, FL 32646
ID # 823419 John Purdy

# DRINKING WATER BACTERIOLOGICAL ANALYSIS

SYSTEM NAME: SSU Sugarmill Woods SYSTEM I.D. NO: 6091775 SYSTEM PHONE #: 382-4441

ADDRESS: 7177 W. International Ct. U-3 Homosassa COUNTY: Citrus DER DISTRICT: SW

COLLECTOR: Tom Seeger COLLECTOR PHONE #: Same

SAMPLE SITE (Locality or Subdivision): Sugarmill Woods

DATE AND TIME COLLECTED: 7-15-91 AM 7-16-91 PM

TYPE OF SUPPLY(Circle one): (Community water system) Private Well / Swimming pool / Noncommunity water system / Bottled water / Nontransient - noncommunity water system / Other public water system

TYPE OF SAMPLE(Circle one): (Compliance) (Check Box) / Repeat / Replacement (Check Box) / Main clearance / Well survey / Other _____ (Specify)

(.) Distribution (.) Raw

REMARKS:

| TO BE COMPLETED BY COLLECTOR OF SAMPLE | | | | TO BE COMPLETED BY LAB | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ANALYSIS METHOD: | MF | MTF | MMO-MUG | P/A | |
| COLL. NO. | SAMPLE POINT (Specific Address) | CL RES'D | pH | SAMPLE NUMBER | NON COLIFORM | *TOTAL | CONFIRM TOTAL | CONFIRM FECAL | |
| 10 | Maintenance Shop | .4 | | 2711 | | | | | |
| 11 | Tennis Swim Complex | .4 | | 2712 | | | | | |
| 12 | Hom. Med. Center | .3 | | 2713 | | | | | |
| 13 | 4 Glenridge Ct. | .3 | | 2714 | | | | | |
| 14 | 7 Catalpa Ct. | .3 | | 2715 | | | | | |
| 15 | 8 Carnation Ct. E | .3 | | 2716 | | | | | |
| 16 | 65 Lone Pine St. | .4 | | 2717 | | | | | |

* Results in this column are preliminary; fecal coliform confirmation on community and noncommunity water systems and total coliform confirmation on all types of water systems will follow in 24-48 hours.

P - Coliforms are present; fecal coliform confirmation to follow
A - Coliforms are absent
TNTC - Too numerous to count

INTERPRETATIONS-REMARKS BY PROGRAM REVIEWER

NAME AND MAILING ADDRESS OF PERSON/FIRM TO RECEIVE REPORT

S.S.U. Services, Inc.
7177 W. International Ct. U-3
Homosassa, FL 32646
Att: John & Tom

( )
(X) SATISFACTORY
( ) INCOMPLETE COLLECTION INFORMATION
( ) REPEAT SAMPLES
( ) REPLACEMENT SAMPLES

REVIEWING OFFICIAL: _____

TITLE: ED I

State of Florida
Department of Health and Rehabilitative Services
Office of Laboratory Services
P.O. Box 210
Jacksonville, Florida 32231

FOR LAB USE ONLY
Gulf Coast Water Testing
5356 Hwy 19
Homosassa, Fla 32646
Lab ID# 82399 John Zachary
12/5/91 11:45Am

# DRINKING WATER BACTERIOLOGICAL ANALYSIS

SYSTEM NAME: SSU Sugarmill Woods SYSTEM I.D. NO: 6291735 SYSTEM PHONE #: 382-4441

ADDRESS: 7177 W. Interandinal Ct. Homosassa COUNTY: Citrus DER DISTRICT: SWD

COLLECTOR: Tom Cooper COLLECTOR PHONE #: same

SAMPLE SITE (Locality or Subdivision): Sugarmill Woods

DATE AND TIME COLLECTED: 12/4/91 11:45 AM

TYPE OF SUPPLY(Circle one): (Community water system) Noncommunity water system Nontransient - noncommunity water system
Private Well Swimming pool Bottled water Other public water system

TYPE OF SAMPLE(Circle one): (Compliance) Repeat Replacement Main clearance Well survey Other _____
(Check Box) (Check Box) (Specify)
[x] Distribution [ ] TNTC or Turbid
[ ] Raw

REMARKS:

| TO BE COMPLETED BY COLLECTOR OF SAMPLE | | | | TO BE COMPLETED BY LAB | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ANALYSIS METHOD: | MF | MTF | MMO-MUG | | PA |
| COLL. NO. | SAMPLE POINT (Specific Address) | CL RESID | TEMP | SAMPLE NUMBER | NON COLIFORM | *TOTAL | CONFIRM TOTAL | CONFIRM FECAL | |
| 8 | well # 9 | | | 26P, H | | A | | | |
| 9 | W.P. # 3 Tank | | | 26Q, H | | A | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

* Results in this column are preliminary. Fecal coliform confirmation on community and noncommunity water systems and total coliform confirmation on all types of water systems will follow in 24-48 hours.

P - Coliforms are present C - Confluent Growth Ars - Turbid/Absence of gas or acid
A - Coliforms are absent TNTC - Too numerous to count

INTERPRETATIONS-REMARKS BY PROGRAM REVIEWER

HRS Form 618, Jan. 91 (Obsoletes previous editions which may not be used) (Stock Number 0810-000-0818)

NAME AND MAILING ADDRESS OF PERSON/FIRM TO RECEIVE REPORT

SSU Services, Inc.
7177 W. Interandinal Ct. U-3
Homosassa, FL 32646
Att Jake - Tom

( ).
(X) SATISFACTORY
( ) INCOMPLETE COLLECTION INFORMATION
( ) REPEAT SAMPLES
( ) REPLACEMENT SAMPLES

REVIEWING OFFICIAL: Brenda Ball

TITLE: EHT

# Sunny Hills Utilities - 28001

**Washington County (UFU)**

**Water**

**- 1992 FPSC Filing -**

# Sunny Hill

## Chemical Analyses

The most recent chemical analyses for the water system conducted by a certified laboratory covering the inorganic, organic, turbidity, microbiological, radionuclide, secondary and unregulated contaminants.

| Chemical Analysis | Date Taken |
|---|---|
| Inorganic | 3/90 |
| Organic | 3/90 |
| Volatile Organic Chemicals | 1/91 |
| | 4/91 |
| | 7/91 |
| | 10/91 |
| Turbidity | 3/90 |
| Microbiological | 12/91 |
| Radionuclide | 3/90 |
| Secondary Contaminants | 3/90 |
| Unregulated Contaminants | 1/91 |

Pioneer LABORATORY, INC
A division of Analytical Technologies, Inc.
11 EAST OLIVE ROAD • PENSACOLA, FLORIDA 32514 • (904) 474-1001

Client: SUNNY HILLS UTILITIES
18098 ATTN: HAROLD REGISTER
716 SUNNY HILLS BLVD.
SUNNY HILLS, FL 32428-0000

Project Number: P.O.# 61048
Project Name: N/S
Sample Site: SUNNY HILLS
Sample Type: DRINKING WATER

Lab I.D.#: 90-1381R
Order Number: P28148
Order Date: 03/15/90
Sampled By: H. REGISTER
Sample Date: 03/15/90
Sample Time: A.M.

N/S = Not Submitted

| Lab ID | Sample ID | Parameter | Units | Results |
|---|---|---|---|---|
| 90-1381R-1 | SUNNY HILLS | GROSS ALPHA | pCi/l | <2 |

Note: This analysis was performed by Controls for Environmental Pollution, Inc., Santa Fe, New Mexico. Florida Certification Number 87239.

Approved By: John V Hawkins

Effective 06/01/89

## TURBIDITY ANALYSIS
17-550.310(3)
(PWS026)

| Parameter I.D. | Parameter Name | Sample Number | Location Code | Analysis Result (NTU) | Analytical Method | Analysis Date |
|---|---|---|---|---|---|---|
| 0100 | Turbidity | 90-1381-1 | WELL 1 | 0.3 | 180.1 | 03/15/90 |

Comments:

## INORGANIC ANALYSIS
17-550-310(1)
(PWS030)

| Parameter I.D. | Parameter Name | Sample Number | Location Code | Analysis Result (mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1005 | Arsenic | 90-1381-1 | WELL 1 | BDL | 206.2 | 0.001 | 03/15/90 |
| 1010 | Barium | 90-1381-1 | WELL 1 | BDL | 200.7 | 0.1 | 03/15/90 |
| 1015 | Cadmium | 90-1381-1 | WELL 1 | BDL | 213.2 | 0.0001 | 03/15/90 |
| 1020 | Chromium | 90-1381-1 | WELL 1 | BDL | 200.7 | 0.01 | 03/15/90 |
| 1025 | Fluoride | 90-1381-1 | WELL 1 | 0.03 | 340.2 | 0.01 | 03/15/90 |
| 1030 | Lead | 90-1381-1 | WELL 1 | BDL | 239.2 | 0.001 | 03/15/90 |
| 1035 | Mercury | 90-1381-1 | WELL 1 | BDL | 245.1 | 0.0001 | 03/15/90 |
| 1040 | Nitrate (as N) | 90-1381-1 | WELL 1 | BDL | 353.2 | 0.10 | 03/15/90 |
| 1045 | Selenium | 90-1381-1 | WELL 1 | BDL | 270.2 | 0.003 | 03/15/90 |
| 1050 | Silver | 90-1381-1 | WELL 1 | BDL | 272.2 | 0.0001 | 03/15/90 |
| 1052 | Sodium | 90-1381-1 | WELL 1 | 1.5 | 200.7 | 0.2 | 03/15/90 |

Comments:

## SECONDARY CHEMICAL ANALYSIS
17-550.320
(PWS031)

| Parameter I.D. | Name | Sample Number | Location Code | Analysis Result (mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1924 | Field pH (units) | 90-1381-1 | WELL 1 | 7.02 | 150.1 | | 03/15/90 |
| 1925* | Lab pH (units) | | | | | | |
| 1926 | Field Conductivity | 90-1381-1 | WELL 1 | 309 | 120.1 | 0.1 | 03/15/90 |
| 1927 | Alkalinity As $CaCO_3$ | 90-1381-1 | WELL 1 | 152 | 310.1 | 1 | 03/15/90 |
| 1930 | TDS | 90-1381-1 | WELL 1 | 178 | 160.1 | 1 | 03/15/90 |
| 1931 | Phenolphtalein Alk. | | | | | | |
| 1996 | Methylene Blue Active Substances | 90-1381-1 | WELL 1 | BDL | 425.1 | 0.050 | 03/15/90 |
| 1997 | Langelier Index pHs | 90-1381-1 | WELL 1 | 7.10 | 2330B | 0.01 | 03/15/90 |
| 1998* | Saturation Index | 90-1381-1 | WELL-1 | -0.08 | 2330B | | 03/15/90 |
| 1999* | Stability Index | | | | | | |
| 2909 | Foaming Agents | | | | | | |
| 9996 | Field DO | | | | | | |
| 9997* | Field Chlorine | | | | | | |

Comments:

*OPTIONAL - NOT REQUIRED BY RULE

Effective 06/01/89

SECONDARY CHEMICAL ANALYSIS
17-550.320
(PWS031)

| Parameter I.D. | Parameter Name | Sample Number | Location Code | Analysis Result (mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1016* | Calcium | | | | | | |
| 1017 | Chloride | 90-1381-1 | WELL 1 | 11 ✓ | 325.3 | 0.5 | 03/15/90 |
| 1019* | Carbonate $CaCO_3$ | | | | | | |
| 1021* | Hydroxide $CaCO_3$ | | | | | | |
| 1022 | Copper | 90-1381-1 | WELL 1 | BDL | 200.7 | 0.02 | 03/15/90 |
| 1023* | Bicarbonate $CaCO_3$ | | | | | | |
| 1025 | Fluoride - PLEASE ENTER AS A PRIMARY ON SCREEN PWS030 | | | | | | |
| 1026* | Bicarbonate $HCO_3$ | | | | | | |
| 1027* | Hydrogen Sulfide | | | | | | |
| 028 | Iron | 90-1381-1 | WELL 1 | BDL | 200.7 | 0.02 | 03/15/90 |
| 1031* | Magnesium | | | | | | |
| 1032 | Manganese | 90-1381-1 | WELL 1 | BDL ✓ | 200.7 | 0.01 | 03/15/90 |
| 1055 | Sulfate | 90-1391-1 | WELL 1 | 1.3 ✓ | 375.4 | 1.0 | 03/15/90 |
| 1095 | Zinc | 90-1391-1 | WELL 1 | BDL | 200.7 | 0.01 | 03/15/90 |
| 1901 | Carbon Dioxide | | | | | | |
| 1905 | Color (color units) | 90-1391-1 | WELL 1 | 5 ✓ | 110.2 | 5 | 03/15/90 |
| 1915* | Total Hardness | | | | | | |
| 1917 | NCH as $CaCO_3$ | 90-1381-1 | WELL 1 | 179 | 130.2 | 1 | 03/15/90 |
| 1920 | Odor (Total odor number) | 90-1391-1 | WELL 1 | 4 | 140.1 | 1 | 03/15/90 |

Comments:

Effective 06/01/89

# ORGANIC CHEMICAL ANALYSIS
17-550.310(2)(a)(b)
(PWS029)

| Parameter I.D. | Name | Sample Number | Location Code | Analysis Result (mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2005 | Endrin | 90-1381-1 | WELL 1 | BDL | 608 | 0.00007 | 03/28/90 |
| 2010 | Lindane | 90-1381-1 | WELL 1 | BDL | 608 | 0.0002 | 03/28/90 |
| 2015 | Methoxychlor | 90-1381-1 | WELL 1 | BDL | 608 | 0.005 | 03/28/90 |
| 2020 | Toxaphene | 90-1381-1 | WELL 1 | BDL | 608 | 0.001 | 03/28/90 |
| 2105 | 2,4-D | 90-1381-1 | WELL-1 | BDL | 615 | 0.02 | 03/28/90 |
| 2110 | 2,4,5-TP (Silvex) | 90-1381-1 | WELL-1 | BDL | 615 | 0.002 | 03/28/90 |

Comments:

## TURBIDITY ANALYSIS
17-550.310(3)
(PWS026)

| Parameter I.D. | Parameter Name | Sample Number | Location Code | Analysis Result (NTU) | Analytical Method | Analysis Date |
|---|---|---|---|---|---|---|
| 0100 | Turbidity | 90-1381-2 | WELL 4 | 0.4 | 180.1 | 03/15/90 |

Comments:

## INORGANIC ANALYSIS
17-550-310(1)
(PWS030)

| Parameter I.D. | Parameter Name | Sample Number | Location Code | Analysis Result (mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1005 | Arsenic | 90-1381-2 | WELL 4 | BDL | 206.2 | 0.001 | 03/15/90 |
| 1010 | Barium | 90-1381-2 | WELL 4 | BDL | 200.7 | 0.1 | 03/15/90 |
| 1015 | Cadmium | 90-1381-2 | WELL 4 | 0.0002 | 213.2 | 0.0001 | 03/15/90 |
| 020 | Chromium | 90-1381-2 | WELL 4 | BDL | 200.7 | 0.01 | 03/15/90 |
| 1025 | Fluoride | 90-1381-2 | WELL 4 | BDL | 340.2 | 0.01 | 03/15/90 |
| 1030 | Lead | 90-1381-2 | WELL 4 | BDL | 239.2 | 0.001 | 03/15/90 |
| 1035 | Mercury | 90-1381-2 | WELL 4 | BDL | 245.1 | 0.0001 | 03/15/90 |
| 1040 | Nitrate (as N) | 90-1381-2 | WELL 4 | BDL | 353.2 | 0.10 | 03/15/90 |
| 1045 | Selenium | 90-1381-2 | WELL 4 | BDL | 270.2 | 0.003 | 03/15/90 |
| 1050 | Silver | 90-1381-2 | WELL 4 | BDL | 272.2 | 0.0001 | 03/15/90 |
| 1052 | Sodium | 90-1381-2 | WELL 4 | 1.9 | 200.7 | 0.2 | 03/15/90 |

Comments:

Effective 06/01/89

ORGANIC CHEMICAL ANALYSIS
17-550.310(2)(a)(b)
(PWS029)

| Parameter I.D. | Name | Sample Number | Location Code | Analysis Result (mg/l) | Analytical Method | Det. Lt. Used | Analysi Date |
|---|---|---|---|---|---|---|---|
| 2005 | Endrin | 90-1381-2 | WELL 4 | BDL | 608 | 0.00007 | 03/28/90 |
| 2010 | Lindane | 90-1381-2 | WELL 4 | BDL | 608 | 0.0002 | 03/28/90 |
| 2015 | Methoxychlor | 90-1381-2 | WELL 4 | BDL | 608 | 0.005 | 03/28/90 |
| 2020 | Toxaphene | 90-1381-2 | WELL 4 | BDL | 608 | 0.001 | 03/28/90 |
| 2105 | 2,4-D | 90-1381-2 | WELL-4 | BDL | 615 | 0.02 | 03/28/90 |
| 2110 | 2,4,5-TP (Silvex) | 90-1381-2 | WELL-4 | BDL | 615 | 0.002 | 03/28/90 |

Comments:

Effective 06/01/89

17-550.320
(PWS031)

| Parameter .D. | Name | Sample Number | Location Code | Analysis Result (mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1016* | Calcium | | | | | | |
| 1017 | Chloride | 90-1381-2 | WELL 4 | 41 | 325.3 | 0.5 | 03/15/90 |
| 1019* | Carbonate $CaCO_3$ | | | | | | |
| 1021* | Hydroxide $CaCO_3$ | | | | | | |
| 1022 | Copper | 90-1381-2 | WELL 4 | BDL | 200.7 | 0.02 | 03/15/90 |
| 1023* | Bicarbonate $CaCO_3$ | | | | | | |
| 1025 | Fluoride - PLEASE ENTER AS A PRIMARY ON SCREEN PWS030 | | | | | | |
| 1026* | Bicarbonate $HCO_3$ | | | | | | |
| 1027* | Hydrogen Sulfide | | | | | | |
| 1028 | Iron | 90-1381-2 | WELL 4 | BDL | 200.7 | 0.02 | 03/15/90 |
| 1031* | Magnesium | | | | | | |
| 1032 | Manganese | 90-1381-2 | WELL 4 | BDL | 200.7 | 0.01 | 03/15/90 |
| 1055 | Sulfate | 90-1381-2 | WELL 4 | 2.1 | 375.4 | 1.0 | 03/15/90 |
| 1095 | Zinc | 90-1381-2 | WELL 4 | BDL | 200.7 | 0.01 | 03/15/90 |
| 1901 | Carbon Dioxide | | | | | | |
| 1905 | Color (color units) | 90-1381-2 | WELL 4 | 5 | 110.2 | 5 | 03/15/90 |
| 1915* | Total Hardness | | | | | | |
| 1917 | NCH as $CaCO_3$ | 90-1381-2 | WELL 4 | 116 | 130.2 | 1 | 03/15/90 |
| 1920 | Odor (Total odor number) | 90-1381-2 | WELL 4 | 2 | 140.1 | 1 | 03/15/90 |

Comments:

## SECONDARY CHEMICAL ANALYSIS
17-550.320
(PWS031)

| Parameter I.D. | Name | Sample Number | Location Code | Analysis Result (mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1924 | Field pH (units) | 90-1381-2 | WELL 4 | 7.07 | 150.1 | | 03/15/90 |
| 1925* | Lab pH (units) | | | | | | |
| 1926 | Field Conductivity | 90-1381-2 | WELL 4 | 193 | 120.1 | 0.1 | 03/15/90 |
| 1927 | Alkalinity As $CaCO_3$ | 90-1381-2 | WELL 4 | 97 | 310.1 | 1 | 03/15/90 |
| 1930 | TDS | 90-1381-2 | WELL 4 | 110 | 160.1 | 1 | 03/15/90 |
| 1931 | Phenolphtalein Alk. | | | | | | |
| 1996 | Methylene Blue Active Substances | 90-1381-2 | WELL 4 | 0.050 | 425.1 | 0.050 | 03/15/90 |
| 1997 | Langelier Index pHs | 90-1381-2 | WELL 4 | 7.23 | 2330B | 0.01 | 03/15/90 |
| 1998* | Saturation Index | 90-1381-2 | WELL 4 | -0.16 | 2330B | | 03/15/90 |
| 1999* | Stability Index | | | | | | |
| 2909 | Foaming Agents | | | | | | |
| 9996 | Field DO | | | | | | |
| 9997* | Field Chlorine | | | | | | |

Comments:

*OPTIONAL - NOT REQUIRED BY RULE

Pioneer LABORATORY INC
a division of Analytical Technologies, Inc.
11 EAST OLIVE ROAD • PENSACOLA, FLORIDA 32514 • (904) 474-1001

Client: SUNNY HILLS UTILITIES
18098 ATTN: HAROLD REGISTER
716 SUNNY HILLS BLVD.
SUNNY HILLS, FL 32428-0000

Lab I.D.#: 90-1381R
Order Number: P28148
Order Date: 03/15/90
Sampled By: H. REGISTER
Sample Date: 03/15/90
Sample Time: A.M.

Project Number: P.O.# 61048
Project Name: N/S
Sample Site: SUNNY HILLS
Sample Type: DRINKING WATER

N/S = Not Submitted

| Lab ID | Sample ID | Parameter | Units | Results |
|---|---|---|---|---|
| 90-1381R-1 | SUNNY HILLS | GROSS ALPHA | pCi/l | <2 |

Note: This analysis was performed by Controls for Environmental Pollution, Inc., Santa Fe, New Mexico. Florida Certification Number 87239.

Approved By: John U Hawkins

## TURBIDITY ANALYSIS
17-550.310(3)
(PWS026)

| Parameter I.D. | Parameter Name | Sample Number | Location Code | Analysis Result (NTU) | Analytical Method | Analysis Date |
|---|---|---|---|---|---|---|
| 0100 | Turbidity | 90-1381-1 | WELL 1 | 0.3 | 180.1 | 03/15/90 |

Comments:

## INORGANIC ANALYSIS
17-550-310(1)
(PWS030)

| Parameter I.D. | Parameter Name | Sample Number | Location Code | Analysis Result (mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1005 | Arsenic | 90-1381-1 | WELL 1 | BDL | 206.2 | 0.001 | 03/15/90 |
| 1010 | Barium | 90-1381-1 | WELL 1 | BDL | 200.7 | 0.1 | 03/15/90 |
| 1015 | Cadmium | 90-1381-1 | WELL 1 | BDL | 213.2 | 0.0001 | 03/15/90 |
| 1020 | Chromium | 90-1381-1 | WELL 1 | BDL | 200.7 | 0.01 | 03/15/90 |
| 1025 | Fluoride | 90-1381-1 | WELL 1 | 0.03 | 340.2 | 0.01 | 03/15/90 |
| 1030 | Lead | 90-1381-1 | WELL 1 | BDL | 239.2 | 0.001 | 03/15/90 |
| 1035 | Mercury | 90-1381-1 | WELL 1 | BDL | 245.1 | 0.0001 | 03/15/90 |
| 1040 | Nitrate (as N) | 90-1381-1 | WELL 1 | BDL | 353.2 | 0.10 | 03/15/90 |
| 1045 | Selenium | 90-1381-1 | WELL 1 | BDL | 270.2 | 0.003 | 03/15/90 |
| 1050 | Silver | 90-1381-1 | WELL 1 | BDL | 272.2 | 0.0001 | 03/15/90 |
| 1052 | Sodium | 90-1381-1 | WELL 1 | 1.5 | 200.7 | 0.2 | 03/15/90 |

Comments:

# SECONDARY CHEMICAL ANALYSIS

17-550.320
(PWS031)

| Parameter I.D. | Parameter Name | Sample Number | Location Code | Analysis Result (mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1924 | Field pH (units) | 90-1381-1 | WELL 1 | 7.02 | 150.1 | | 03/15/90 |
| 1925* | Lab pH (units) | | | | | | |
| 1926 | Field Conductivity | 90-1381-1 | WELL 1 | 309 | 120.1 | 0.1 | 03/15/90 |
| 1927 | Alkalinity As $Caco_3$ | 90-1381-1 | WELL 1 | 152 | 310.1 | 1 | 03/15/90 |
| 1930 | TDS | 90-1381-1 | WELL 1 | 178 | 160.1 | 1 | 03/15/90 |
| 1931 | Phenolphtalein Alk. | | | | | | |
| 1996 | Methylene Blue Active Substances | 90-1381-1 | WELL 1 | BDL | 425.1 | 0.050 | 03/15/90 |
| 1997 | Langelier Index pHs | | | | | | |
| 1998* | Saturation Index | | | | | | |
| 1999* | Stability Index | | | | | | |
| 2909 | Foaming Agents | | | | | | |
| 9996 | Field DO | | | | | | |
| 9997* | Field Chlorine | | | | | | |

Comments:

*OPTIONAL - NOT REQUIRED BY RULE

Effective 06/01/89

SECONDARY CHEMICAL ANALYSIS
17-550.320
(PWS031)

| Parameter I.D. | Parameter Name | Sample Number | Location Code | Analysis Result (mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1016* | Calcium | | | | | | |
| 1017 | Chloride | 90-1381-1 | WELL 1 | 11 | 325.3 | 0.5 | 03/15/90 |
| 1019* | Carbonate $CaCO_3$ | | | | | | |
| 1021* | Hydroxide $CaCO_3$ | | | | | | |
| 1022 | Copper | 90-1381-1 | WELL 1 | BDL | 200.7 | 0.02 | 03/15/90 |
| 1023* | Bicarbonate $CaCO_3$ | | | | | | |
| 1025 | Fluoride - PLEASE ENTER AS A PRIMARY ON SCREEN PWS030 | | | | | | |
| 1026* | Bicarbonate $HCO_3$ | | | | | | |
| 1027* | Hydrogen Sulfide | | | | | | |
| 028 | Iron | 90-1381-1 | WELL 1 | BDL | 200.7 | 0.02 | 03/15/90 |
| 1031* | Magnesium | | | | | | |
| 1032 | Manganese | 90-1381-1 | WELL 1 | BDL | 200.7 | 0.01 | 03/15/90 |
| 1055 | Sulfate | 90-1391-1 | WELL 1 | 1.3 | 375.4 | 1.0 | 03/15/90 |
| 1095 | Zinc | 90-1391-1 | WELL 1 | BDL | 200.7 | 0.01 | 03/15/90 |
| 1901 | Carbon Dioxide | | | | | | |
| 1905 | Color (color units) | 90-1391-1 | WELL 1 | 5 | 110.2 | 5 | 03/15/90 |
| 1915* | Total Hardness | | | | | | |
| 1917 | NCH as $CaCO_3$ | 90-1381-1 | WELL 1 | 179 | 130.2 | 1 | 03/15/90 |
| 1920 | Odor (Total odor number) | 90-1391-1 | WELL 1 | 4 | 140.1 | 1 | 03/15/90 |

Comments:

Effective 06/01/89

ORGANIC CHEMICAL ANALYSIS
17-550.310(2)(a)(b)
(PWS029)

| Parameter I.D. | Parameter Name | Sample Number | Location Code | Analysis Result (mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2005 | Endrin | 90-1381-1 | WELL 1 | BDL | 608 | 0.00007 | 03/28/90 |
| 2010 | Lindane | 90-1381-1 | WELL 1 | BDL | 608 | 0.0002 | 03/28/90 |
| 2015 | Methoxychlor | 90-1381-1 | WELL 1 | BDL | 608 | 0.005 | 03/28/90 |
| 2020 | Toxaphene | 90-1381-1 | WELL 1 | BDL | 608 | 0.001 | 03/28/90 |
| 2105 | 2,4-D | 90-1381-1 | WELL-1 | BDL | 615 | 0.02 | 03/28/90 |
| 2110 | 2,4,5-TP (Silvex) | 90-1381-1 | WELL-1 | BDL | 615 | 0.002 | 03/28/90 |

Comments:

## TURBIDITY ANALYSIS
17-550.310(3)
(PWS026)

| Parameter I.D. | Parameter Name | Sample Number | Location Code | Analysis Result (NTU) | Analytical Method | Analysis Date |
|---|---|---|---|---|---|---|
| 0100 | Turbidity | 90-1381-2 | WELL 4 | 0.4 ✓ | 180.1 | 03/15/90 |

Comments:

## INORGANIC ANALYSIS
17-550-310(1)
(PWS030)

| Parameter I.D. | Parameter Name | Sample Number | Location Code | Analysis Result (mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1005 | Arsenic | 90-1381-2 | WELL 4 | BDL | 206.2 | 0.001 | 03/15/90 |
| 1010 | Barium | 90-1381-2 | WELL 4 | BDL | 200.7 | 0.1 | 03/15/90 |
| 1015 | Cadmium | 90-1381-2 | WELL 4 | 0.0002 | 213.2 | 0.0001 | 03/15/90 |
| 020 | Chromium | 90-1381-2 | WELL 4 | BDL | 200.7 | 0.01 | 03/15/90 |
| 1025 | Fluoride | 90-1381-2 | WELL 4 | BDL | 340.2 | 0.01 | 03/15/90 |
| 1030 | Lead | 90-1381-2 | WELL 4 | BDL | 239.2 | 0.001 | 03/15/90 |
| 1035 | Mercury | 90-1381-2 | WELL 4 | BDL | 245.1 | 0.0001 | 03/15/90 |
| 1040 | Nitrate (as N) | 90-1381-2 | WELL 4 | BDL | 353.2 | 0.10 | 03/15/90 |
| 1045 | Selenium | 90-1381-2 | WELL 4 | BDL | 270.2 | 0.003 | 03/15/90 |
| 1050 | Silver | 90-1381-2 | WELL 4 | BDL | 272.2 | 0.0001 | 03/15/90 |
| 1052 | Sodium | 90-1381-2 | WELL 4 | 1.9 | 200.7 | 0.2 | 03/15/90 |

Comments:

Effective 06/01/89

ORGANIC CHEMICAL ANALYSIS
17-550.310(2)(a)(b)
(PWS029)

| Parameter I.D. | Name | Sample Number | Location Code | Analysis Result (mg/l) | Analytical Method | Det. Lt. Used | Analysi Date |
|---|---|---|---|---|---|---|---|
| 2005 | Endrin | 90-1381-2 | WELL 4 | BDL | 608 | 0.00007 | 03/28/90 |
| 2010 | Lindane | 90-1381-2 | WELL 4 | BDL | 608 | 0.0002 | 03/28/90 |
| 2015 | Methoxychlor | 90-1381-2 | WELL 4 | BDL | 608 | 0.005 | 03/28/90 |
| 2020 | Toxaphene | 90-1381-2 | WELL 4 | BDL | 608 | 0.001 | 03/28/90 |
| 2105 | 2,4-D | 90-1381-2 | WELL-4 | BDL | 615 | 0.02 | 03/28/90 |
| 2110 | 2,4,5-TP (Silvex) | 90-1381-2 | WELL-4 | BDL | 615 | 0.002 | 03/28/90 |

Comments:

Effective 06/01/89

17-550.320
(PWS031)

| Parameter I.D. | Parameter Name | Sample Number | Location Code | Analysis Result (mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1016* | Calcium | | | | | | |
| 1017 | Chloride | 90-1381-2 | WELL 4 | 41 | 325.3 | 0.5 | 03/15/90 |
| 1019* | Carbonate $CaCO_3$ | | | | | | |
| 1021* | Hydroxide $CaCO_3$ | | | | | | |
| 1022 | Copper | 90-1381-2 | WELL 4 | BDL | 200.7 | 0.02 | 03/15/90 |
| 1023* | Bicarbonate $CaCO_3$ | | | | | | |
| 1025 | Fluoride - PLEASE ENTER AS A PRIMARY ON SCREEN PWS030 | | | | | | |
| 1026* | Bicarbonate $HCO_3$ | | | | | | |
| 1027* | Hydrogen Sulfide | | | | | | |
| 1028 | Iron | 90-1381-2 | WELL 4 | BDL | 200.7 | 0.02 | 03/15/90 |
| 1031* | Magnesium | | | | | | |
| 1032 | Manganese | 90-1381-2 | WELL 4 | BDL | 200.7 | 0.01 | 03/15/90 |
| 1055 | Sulfate | 90-1381-2 | WELL 4 | 2.1 | 375.4 | 1.0 | 03/15/90 |
| 1095 | Zinc | 90-1381-2 | WELL 4 | BDL | 200.7 | 0.01 | 03/15/90 |
| 1901 | Carbon Dioxide | | | | | | |
| 1905 | Color (color units) | 90-1381-2 | WELL 4 | 5 ✓ | 110.2 | 5 | 03/15/90 |
| 1915* | Total Hardness | | | | | | |
| 1917 | NCH as $CaCO_3$ | 90-1381-2 | WELL 4 | 116 | 130.2 | 1 | 03/15/90 |
| 1920 | Odor (Total odor number) | 90-1381-2 | WELL 4 | 2 | 140.1 | 1 | 03/15/90 |

Comments:

# SECONDARY CHEMICAL ANALYSIS

17-550.320
(PWS031)

| Parameter I.D. | Parameter Name | Sample Number | Location Code | Analysis Result (mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1924 | Field pH (units) | 90-1381-2 | WELL 4 | 7.07 | 150.1 | | 03/15/90 |
| 1925* | Lab pH (units) | | | | | | |
| 1926 | Field Conductivity | 90-1381-2 | WELL 4 | 193 | 120.1 | 0.1 | 03/15/90 |
| 1927 | Alkalinity As $CaCO_3$ | 90-1381-2 | WELL 4 | 97 | 310.1 | 1 | 03/15/90 |
| 1930 | TDS | 90-1381-2 | WELL 4 | 110 | 160.1 | 1 | 03/15/90 |
| 1931 | Phenolphtalein Alk. | | | | | | |
| 1996 | Methylene Blue Active Substances | 90-1381-2 | WELL 4 | 0.050 | 425.1 | 0.050 | 03/15/90 |
| 1997 | Langelier Index pHs | | | | | | |
| 1998* | Saturation Index | | | | | | |
| 1999* | Stability Index | | | | | | |
| 2909 | Foaming Agents | | | | | | |
| 9996 | Field DO | | | | | | |
| 9997* | Field Chlorine | | | | | | |

Comments:

*OPTIONAL - NOT REQUIRED BY RULE

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
Sonny Hills
712 SonnyHillsBlvd.
SonnyHills,FL 32428

Date Reported: Mar 5 1991
PO Number: Sonny Hills
PO Number
FDHRS Lab# : 83139
FDER Lab# : EB3018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WELLS 1,4&5
Date Received: Jan30 1991 Lab Number : 16157

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16157 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 111 | 0.98 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 105 | 0.78 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 105 | 0.78 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 107 | 0.70 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 102 | 0.62 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 104 | 3.92 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 112 | 4.25 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 114 | 4.05 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 114 | 4.05 | <0.001 |
| Benzene | mg/L | 0.001 | 113 | 1.11 | <0.001 |
| Chloromethane | mg/L | 0.001 | 109 | .858 | <0.001 |
| Dichlorodifluorometh | mg/L | 0.001 | 100 | .702 | <0.001 |
| Bromomethane | mg/L | 0.001 | 109 | .858 | <0.001 |
| Chloroethane | mg/L | 0.001 | 104 | .542 | <0.001 |
| Trichlorofluorometha | mg/L | 0.001 | 100 | .702 | <0.001 |
| trans-1,3,-dichlorop | mg/L | 0.001 | 107 | 7.14 | <0.001 |
| cis-1,3-dichloroprop | mg/L | 0.001 | 117 | 1.36 | <0.001 |
| Methyl-tert-butyleth | mg/L | 0.001 | 111 | 6.74 | <0.001 |
| cis-1,2-dichloroethe | mg/L | 0.001 | 117 | 1.36 | <0.001 |
| Dibromomethane | mg/L | 0.001 | 109 | .858 | <0.001 |
| 1,1-dichloropropene | mg/L | 0.001 | 109 | .858 | <0.001 |
| 1,3-dichloropropane | mg/L | 0.001 | 107 | 7.14 | <0.001 |
| 1,2,3-trichloropropa | mg/L | 0.001 | 105 | 5.27 | <0.001 |
| 2,2-dichloropropane | mg/L | 0.001 | 104 | .542 | <0.001 |
| 1,2-dibromo-3-chloro | mg/L | 0.001 | 105 | 5.27 | <0.001 |
| Chloroform | mg/L | 0.001 | 99.1 | 1.06 | <0.001 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P O BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984
FAX (407) 260-6110

FLOWERS
CHEMICAL LABORATORIES INCORPORATED

Received From:
Sonny Hills
712 SonnyHillsBlvd.
SonnyHills,FL 32428

Date Reported: Mar 5 1991
PO Number: Sonny Hills
PO Number
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WELLS 1,4&5
Date Received: Jan30 1991 Lab Number : 16157

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16157 |
|---|---|---|---|---|---|
| Bromoform | mg/L | 0.001 | 115 | 8.58 | <0.001 |
| Bromodichloromethane | mg/L | 0.001 | 102 | 3.61 | <0.001 |
| Dibromochloromethane | mg/L | 0.001 | 109 | 2.82 | <0.001 |
| p-xylene | mg/L | 0.001 | 97.0 | 2.10 | <0.001 |
| Methylene chloride | mg/L | 0.001 | 109 | .858 | <0.001 |
| o-chlorotoluene | mg/L | 0.001 | 109 | .858 | <0.001 |
| p-chlorotoluene | mg/L | 0.001 | 93.4 | 1.89 | <0.001 |
| m-dichlorobenzene | mg/L | 0.001 | 115 | .495 | <0.001 |
| o-dichlorobenzene | mg/L | 0.001 | 111 | .180 | <0.001 |
| 1,1-dichloroethane | mg/L | 0.001 | 100 | 1.31 | <0.001 |
| trans-1,2-dichloroet | mg/L | 0.001 | 100 | 1.31 | <0.001 |
| 1,2-dichloropropane | mg/L | 0.001 | 99.1 | .590 | <0.001 |
| 1,1,2-trichloroethan | mg/L | 0.001 | 114 | .841 | <0.001 |
| 1,1,1,2-tetrachloroe | mg/L | 0.001 | 114 | .841 | <0.001 |
| 1,1,2,2-tetrachloroe | mg/L | 0.001 | 120 | 2.20 | <0.001 |
| Chlorobenzene | mg/L | 0.001 | 101 | .116 | <0.001 |
| Toluene | mg/L | 0.001 | 93.4 | 1.89 | <0.001 |
| Ethylbenzene | mg/L | 0.001 | 92.9 | 1.29 | <0.001 |
| Bromobenzene | mg/L | 0.001 | 101 | .116 | <0.001 |
| m-xylene | mg/L | 0.001 | 97.0 | 2.10 | <0.001 |
| Styrene | mg/L | 0.001 | 93.4 | 1.89 | <0.001 |
| o-xylene | mg/L | 0.001 | 97.0 | 2.10 | <0.001 |
| Dalapon | mg/L | 0.000001 | 104 | 2.20 | <0.000001 |
| Oxamyl (Vydate) | mg/L | 0.002 | 95.8 | 1.85 | <0.002 |
| Simazine | mg/L | 0.007 | 98.9 | 0.65 | <0.007 |
| Picloram | mg/L | 0.00007 | 106 | 3.61 | <0.00007 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P O BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984
FAX (407) 260-6110

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
Sonny Hills
712 SonnyHillsBlvd.
SonnyHills,FL 32428

Date Reported: Mar 5 1991
PO Number: Sonny Hills
PO Number
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WELLS 1,4&5
Date Received: Jan30 1991 Lab Number : 16157

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16157 |
|---|---|---|---|---|---|
| Dinoseb | mg/L | 0.00001 | 91.8 | 4.95 | <0.00001 |
| Aldicarb sulfoxide | mg/L | 0.002 | 91.0 | 3.89 | <0.002 |
| Aldicarb sulfone | mg/L | 0.002 | 89.5 | 3.16 | <0.002 |
| Metolachlor | mg/L | 0.0005 | 96.4 | 2.15 | <0.0005 |
| Carbofuran | mg/L | 0.001 | 91.0 | 2.33 | <0.001 |
| Aldicarb | mg/L | 0.002 | 105 | 3.70 | <0.002 |
| Atrazine | mg/L | 0.002 | 103 | 1.90 | <0.002 |
| Alachlor (Lasso) | mg/L | 0.0002 | 98.3 | 1.01 | <0.0002 |
| Heptachlor | mg/L | 0.000005 | 91.1 | 5.40 | <0.000005 |
| Aldrin | mg/L | 0.00007 | 90.0 | 6.13 | <0.00007 |
| Dieldrin | mg/L | 0.00001 | 94.9 | 3.07 | <0.00001 |
| Dicamba | mg/L | 0.00001 | 90.9 | 5.53 | <0.00001 |
| Chlordane | mg/L | 0.00001 | 99.0 | 0.58 | <0.00001 |
| Pentachlorophenol | mg/L | 0.005 | 90.8 | 5.60 | <0.005 |
| Hexachlorocyclopenta | mg/L | 0.001 | 99.6 | 0.23 | <0.001 |
| Dioxin | mg/L | 0.00001 | 97.3 | 3.15 | <0.00001 |
| Isophorone | mg/L | 0.001 | 99 | 1.41 | <0.001 |
| 2,4-dinitrotoluene | mg/L | 0.001 | 103 | 3.53 | <0.001 |
| Dimethylphthalate | mg/L | 0.001 | 100 | 0.34 | <0.001 |
| Diethylphthalate | mg/L | 0.001 | 98.6 | 2.02 | <0.001 |
| Di-n-butylphthalate | mg/L | 0.001 | 101 | 0.79 | <0.001 |
| Butyl benzyl phthala | mg/L | 0.001 | 97.7 | 3.38 | <0.001 |
| Bis(2-ethylhexyl)pht | mg/L | 0.001 | 99.2 | 1.11 | <0.001 |
| 1,2,4-trichlorobenze | mg/L | 0.001 | 99.7 | 0.37 | <0.001 |
| PCB_1016 | mg/L | 0.0001 | 99.2 | 3.72 | <0.0001 |
| PCB_1221 | mg/L | 0.0001 | 97.9 | 3.25 | <0.0001 |

Data Release Authorization

Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P O BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5784
FAX (407) 260-6110

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
Sonny Hills
712 SonnyHillsBlvd.
SonnyHills,FL 32428

Date Reported: Mar 5 1991
PO Number: Sonny Hills
PO Number
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WELLS 1.4&5
Date Received: Jan30 1991 Lab Number : 16157

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16157 |
|---|---|---|---|---|---|
| PCB_1232 | mg/L | 0.0001 | 96.0 | 2.41 | <0.0001 |
| PCB_1242 | mg/L | 0.0001 | 93.0 | 4.25 | <0.0001 |
| PCB_1248 | mg/L | 0.0001 | 104 | 2.71 | <0.0001 |
| PCB_1254 | mg/L | 0.0001 | 106 | 3.18 | <0.0001 |
| PCB_1260 | mg/L | 0.0001 | 103 | 2.24 | <0.0001 |
| Dioctylphthalate | mg/L | 0.001 | 98.? | 1.55 | <0.001 |
| 2-chlorophenol | mg/L | 0.001 | 101 | 2.05 | <0.001 |
| 2-methyl-4,6-dinitop | mg/L | 0.001 | 106 | 7.47 | <0.001 |
| Phenol | mg/L | 0.001 | 84.1 | 26.7 | <0.001 |
| 2,4,6-trichloropheno | mg/L | 0.001 | 93.3 | 10.1 | <0.001 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director

Page 4 of 4

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P O BOX 150 597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984
FAX (407) 260-6110

## PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 1670647
Public Water System Name: Sunny Hills Utilities
Public Water System Type (check one):
(X)Community ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyzed: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___: Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable_X_; Unregulated Organic Pesticide_X_;
Unregulated Base Neutral Extractable_X_;Unregulated Acid Extractable__X_;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number: 16157
Sample Location (be specific): Well No.1, Well NO.4 And Well No 5.
Sample Type (check all applicable):
( )Check ( )Regular Distribution (X)Composite BY LAB
( )Clearance ( )Maximum Residence Time (X)Plant Tap
(X)Raw (X)Well ( )Resample
( )Special
Sampler Name, Title Phone: Harold Register
General Manager 904-773-2802

**ANALYSIS INFORMATION**
Extraction 2/13/91
Laboratory Dr. J.S. Flowers
Resample Requested? (check one): ()Yes (X) No
ANALYSIS SUBMITTED: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___: Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature:

Name Dr Jefferson S Flowers

Title Technical Director

Laboratory Flowers Chemical Laboratories,Inc.

Date 2/27/91

Mail Results to the Appropriate DER or ACPHU Office:

DER /ACPHU Reviewing Offical:

PWSA.01 Sample Interpretation (check one):
Effective 0 () Satisfactory () Unsatisfactory

Volatile Organic Analysis
17-550.310(2)(d)
(PWS029)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 16157 | .00002 | <0.000005 | EPA504.1 | .000005 | 2/21/91 |
| 2969 | Para-dichlorobenzene | 16157 | .075 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2976 | Vinyl chloride | 16157 | 0.001 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2977 | 1,1-dichloroethene | 16157 | 0.007 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2980 | 1,2-dichloroethane | 16157 | 0.003 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2981 | 1,1,1-trichloroethane | 16157 | 0.2 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2982 | Carbon tetrachloride | 16157 | 0.003 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2984 | Trichloroethene | 16157 | 0.003 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2987 | Tetrachloroethene | 16157 | 0.003 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2990 | Benzene | 16157 | 0.001 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |

Comments:

Unregulated Organic Purgeable Analysis
17-550.410(1)
(PWS034)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2210 | Chloromethane | 16157 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2212 | Dichlorodifluoromethan | 16157 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2214 | Bromomethane | 16157 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2216 | Chloroethane | 16157 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2218 | Trichlorofluoromethane | 16157 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2224 | trans-1,3,-dichloroprop | 16157 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2228 | cis-1,3-dichloropropene | 16157 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2251 | Methyl-tert-butylether | 16157 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2380 | cis-1,2-dichloroethene | 16157 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2408 | Dibromomethane | 16157 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2410 | 1,1-dichloropropene | 16157 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2412 | 1,3-dichloropropane | 16157 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2414 | 1,2,3-trichloropropane | 16157 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2416 | 2,2-dichloropropane | 16157 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2931 | 1,2-dibromo-3-chloropr | 16157 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2941 | Chloroform | 16157 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2942 | Bromoform | 16157 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2943 | Bromodichloromethane | 16157 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2944 | Dibromochloromethane | 16157 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2962 | p-xylene | 16157 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2964 | Methylene chloride | 16157 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2965 | o-chlorotoluene | 16157 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2966 | p-chlorotoluene | 16157 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2967 | m-dichlorobenzene | 16157 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2968 | o-dichlorobenzene | 16157 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2978 | 1,1-dichloroethane | 16157 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2979 | trans-1,2-dichloroethyl | 16157 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2983 | 1,2-dichloropropane | 16157 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2985 | 1,1,2-trichloroethane | 16157 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2986 | 1,1,1,2-tetrachloroetha | 16157 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2988 | 1,1,2,2-tetrachloroetha | 16157 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 2989 | Chlorobenzene | 16157 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2991 | Toluene | 16157 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2992 | Ethylbenzene | 16157 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2993 | Bromobenzene | 16157 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2995 | m-xylene | 16157 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2996 | Styrene | 16157 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2997 | o-xylene | 16157 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |

Comments:

Unregulated Organic Pesticide Analysis
17-550.410(2)
(PWS035)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2031 | Dalapon | 16157 | | <.000001 | EPA515 | .000001 | 2/21/91 |
| 2036 | Oxamyl (Vydate) | 16157 | | <0.002 | EPA531 | 0.002 | 2/18/91 |
| 2037 | Simazine | 16157 | | <0.007 | EPA505 | 0.007 | 2/21/91 |
| 2040 | Picloram | 16157 | | <0.00007 | EPA515 | 0.00007 | 2/21/91 |
| 2041 | Dinoseb | 16157 | | <0.00001 | EPA515 | 0.00001 | 2/21/91 |
| 2043 | Aldicarb sulfoxide | 16157 | | <0.002 | EPA531 | 0.002 | 2/18/91 |
| 2044 | Aldicarb sulfone | 16157 | | <0.002 | EPA531 | 0.002 | 2/18/91 |
| 2045 | Metolachlor | 16157 | | <0.0005 | EPA505 | 0.0005 | 2/21/91 |
| 2046 | Carbofuran | 16157 | | <0.001 | EPA531 | 0.001 | 2/18/91 |
| 2047 | Aldicarb | 16157 | | <0.002 | EPA531 | 0.002 | 2/18/91 |
| 2050 | Atrazine | 16157 | | <0.002 | EPA505 | 0.002 | 2/21/91 |
| 2051 | Alachlor (Lasso) | 16157 | | <0.0002 | EPA505 | 0.0002 | 2/21/91 |
| 2065 | Heptachlor | 16157 | | <.000005 | EPA508 | .000005 | 2/21/91 |
| 2356 | Aldrin | 16157 | | <0.00007 | EPA508 | 0.00007 | 2/21/91 |
| 2364 | Dieldrin | 16157 | | <0.00001 | EPA508 | 0.00001 | 2/21/91 |
| 2440 | Dicamba | 16157 | | <0.00001 | EPA515 | 0.00001 | 2/21/91 |
| 2959 | Chlordane | 16157 | | <0.00001 | EPA508 | 0.00001 | 2/21/91 |
| 9114 | Pentachlorophenol | 16157 | | <0.005 | EPA515 | 0.005 | 2/21/91 |

Comments:

Unregulated Base Neutral Extractable Analysis
17-550.410(3)
(PWS036)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2042 | Hexachlorocyclopentadie | 16157 | | <0.001 | EPA508 | 0.001 | 2/21/91 |
| 2063 | Dioxin | 16157 | | <0.00001 | EPA613 | 0.00001 | 2/21/91 |
| 2262 | Isophorone | 16157 | | <0.001 | EPA609 | 0.001 | 2/14/91 |
| 2270 | 2,4-dinitrotoluene | 16157 | | <0.001 | EPA609 | 0.001 | 2/14/91 |
| 2282 | Dimethylphthalate | 16157 | | <0.001 | EPA606 | 0.001 | 2/14/91 |
| 2284 | Diethylphthalate | 16157 | | <0.001 | EPA606 | 0.001 | 2/14/91 |
| 2290 | Di-n-butylphthalate | 16157 | | <0.001 | EPA606 | 0.001 | 2/14/91 |
| 2294 | Butyl benzyl phthalate | 16157 | | <0.001 | EPA606 | 0.001 | 2/14/91 |
| 2298 | Bis(2-ethylhexyl)phthal | 16157 | | <0.001 | EPA606 | 0.001 | 2/14/91 |
| 2378 | 1,2,4-trichlorobenzene | 16157 | | <0.001 | EPA612 | 0.001 | 2/14/91 |
| 2388 | PCB 1016 | 16157 | | <0.0001 | EPA505 | 0.0001 | 2/21/91 |
| 2390 | PCB 1221 | 16157 | | <0.0001 | EPA505 | 0.0001 | 2/21/91 |
| 2392 | PCB 1232 | 16157 | | <0.0001 | EPA505 | 0.0001 | 2/21/91 |
| 2394 | PCB 1242 | 16157 | | <0.0001 | EPA505 | 0.0001 | 2/21/91 |
| 2396 | PCB 1248 | 16157 | | <0.0001 | EPA505 | 0.0001 | 2/21/91 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 2398 | PCB_1254 | 16157 | <0.0001 | EPA505 | 0.0001 | 2/21/91 |
| 2400 | PCB_1260 | 16157 | <0.0001 | EPA505 | 0.0001 | 2/21/91 |
| 9089 | Dioctylphthalate | 16157 | <0.001 | EPA606 | 0.001 | 2/14/91 |

Comments:

Unregulated Acid Extractable Analysis
17-550.410(4)
(PWS037)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 9108 | 2-chlorophenol | 16157 | | <0.001 | EPA604 | 0.001 | 2/14/91 |
| 9112 | 2-methyl-4,6-dinitophe | 16157 | | <0.001 | EPA604 | 0.001 | 2/14/91 |
| 9115 | Phenol | 16157 | | <0.001 | EPA604 | 0.001 | 2/14/91 |
| 9116 | 2,4,6-trichlorophenol | 16157 | | <0.001 | EPA604 | 0.001 | 2/14/91 |

Comments:

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
Sunny Hill Util.
712 SunnyHillsBlvd.
SunnyHill,FL 32428

Date Reported: Apr24 1991
PO Number: B91027
PO Number Sunny Hill
FDHRS Lab# : 93139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WATER SAMPLE
Date Received: April 1991 Lab Number : 16637

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16637 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 87.6 | 2.55 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 121 | 9.59 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 104 | 9.11 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 104 | 9.11 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 119 | 3.09 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 104 | 7.72 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 103 | 9.91 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 107 | 4.91 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 108 | 5.40 | <0.001 |
| Benzene | mg/L | 0.001 | 101 | 10.2 | <0.001 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Technical Director



481 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS: (407) 339-5984
FAX: (407) 260-6110

Volatile Organic Analysis
17-550.310(2)(d)
(PWS029)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 16637 | .00002 | <.000005 | EPA504.1 | .000005 | 4/22/91 |
| 2969 | Para-dichlorobenzene | 16637 | .075 | <0.001 | EPA502.2 | 0.001 | 4/22/91 |
| 2976 | Vinyl chloride | 16637 | 0.001 | <0.001 | EPA502.2 | 0.001 | 4/22/91 |
| 2977 | 1,1-dichloroethene | 16637 | 0.007 | <0.001 | EPA502.2 | 0.001 | 4/22/91 |
| 2980 | 1,2-dichloroethane | 16637 | 0.003 | <0.001 | EPA502.2 | 0.001 | 4/22/91 |
| 2981 | 1,1,1-trichloroethane | 16637 | 0.2 | <0.001 | EPA502.2 | 0.001 | 4/22/91 |
| 2982 | Carbon tetrachloride | 16637 | 0.003 | <0.001 | EPA502.2 | 0.001 | 4/22/91 |
| 2984 | Trichloroethene | 16637 | 0.003 | <0.001 | EPA502.2 | 0.001 | 4/22/91 |
| 2987 | Tetrachloroethene | 16637 | 0.003 | <0.001 | EPA502.2 | 0.001 | 4/22/91 |
| 2990 | Benzene | 16637 | 0.001 | <0.001 | EPA502.2 | 0.001 | 4/22/91 |

Comments:

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 1670647
Public Water System Name Sunny Hills Utilities
Public Water System Type (check one):
(X)Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyzed Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable___;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number 16637
Sample Location (be specific): Well No.1, Wwll No 4 and well no 5.
Sample Type (check all applicable):
( )Check ( )Regular Distribution (X)Composit By Lab.
( )Clearance ( )Maximum Residence Time ( )Plant Tap
(X)Raw (X)Well ( )Resample
( )Special_____
Sampler Name, Title Phone: Harold Register
General Manager 904-773-2802

**ANALYSIS INFORMATION**
Extraction Date ___/___/____
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTED Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable___;

I do HEREBY CERTIFY that all data submitted are correct.

Signature:_____

Name **Dr Jefferson S Flowers**

Title **Technical Director**

Laboratory **Flowers Chemical Laboratories,Inc.**

Date 4/23/91

Mail Results to the
Appropriate DER or ACPHU Office:
_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 06/01/( () Satisfactory () Unsatisfactory

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
Sunny Hills Util.
712 SunnyHillsBlvd.
SunnyHills,FL 32428

Date Reported: Jul16 1991
PO Number: 891027
PO Number Sunny Hills
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WELL#1,4,&5
Date Received: Jul 8 1991 Lab Number : 17274

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 17274 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 95.7 | 7.99 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 91.3 | 5.43 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 101 | 2.13 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 93.5 | 6.71 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 95.9 | 3.78 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 97.0 | 4.42 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 95.9 | 5.18 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 95.1 | 4.76 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 96.7 | 4.21 | <0.001 |
| Benzene | mg/L | 0.001 | 95.5 | 4.97 | <0.001 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director

Page 1 of 1

Jefferson S. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P O BOX 150597
ALTAMONTE SPRINGS
FLORIDA 32715 0597
BUS (407) 339 5744
FAX (407) 260 4110

Volatile Organic Analysis
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 17274 | .00002 | <.000005 | EPA504.1 | .000005 | 7/15/91 |
| 2969 | Para-dichlorobenzene | 17274 | .075 | <0.001 | EPA502.2 | 0.001 | 7/8/91 |
| 2976 | Vinyl chloride | 17274 | 0.001 | <0.001 | EPA502.2 | 0.001 | 7/8/91 |
| 2977 | 1,1-dichloroethene | 17274 | 0.007 | <0.001 | EPA502.2 | 0.001 | 7/8/91 |
| 2980 | 1,2-dichloroethane | 17274 | 0.003 | <0.001 | EPA502.2 | 0.001 | 7/8/91 |
| 2981 | 1,1,1-trichloroethane | 17274 | 0.2 | <0.001 | EPA502.2 | 0.001 | 7/8/91 |
| 2982 | Carbon tetrachloride | 17274 | 0.003 | <0.001 | EPA502.2 | 0.001 | 7/8/91 |
| 2984 | Trichloroethene | 17274 | 0.003 | <0.001 | EPA502.2 | 0.001 | 7/8/91 |
| 2987 | Tetrachloroethene | 17274 | 0.003 | <0.001 | EPA502.2 | 0.001 | 7/8/91 |
| 2990 | Benzene | 17274 | 0.001 | <0.001 | EPA502.2 | 0.001 | 7/8/91 |

Comments:

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 1670647
Public Water System Name Sunny Hills Utilities
Public Water System Type (check one):
(X)Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyz: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number 17274
Sample Location (be specific): Well No.1, Well No.4, and Well No.5
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
(X)Raw (X)Well ( )Resample
( )Special_____
Sampler Name, Title Phone: Harold Register
General Manager (904) 773-2802

**ANALYSIS INFORMATION**
Extraction Date ___/___/____
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTEL Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature:

Name Dr. Jefferson S Flowers

Title Technical Director

Laboratory Flowers Chemical Laboratories,Inc.

Date 7/15/91

Mail Results to the Appropriate DER or ACPHU Office:

_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 06/01/( () Satisfactory () Unsatisfactory

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:
Sunny Hills Util.
712 SunnyHill Blvd.
SunnyHill,FL 32428

Date Reported: Oct30 1991
PO Number: N/A
PO Number Sunny Hills
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: COMP. SAMPLE
Date Received: Oct24 1991 Lab Number : 18114

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 18114 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | ### | 1.95 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 91.3 | 6.14 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 106 | 6.81 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 106 | 6.81 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 94.3 | 6.67 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 100. | 7.48 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 101 | 7.82 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 92.4 | 7.53 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 93.1 | 6.86 | <0.001 |
| Benzene | mg/L | 0.001 | 98.0 | 7.64 | <0.001 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



Jefferson S. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715 0597
BUS: (407) 339 5784
FAX: (407) 260-6110

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 1670647
Public Water System Name SUNNY HILLS UTILITIES
Public Water System Type (check one):
(X)Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyzt Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number 18114
Sample Location (be specific): WELL #1, WELL #4, and WELL #5
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
(X)Raw (X)Well ( )Resample
( )Special_____
Sampler Name, Title Phone: HAROLD REGISTER
GENERAL MANAGER (904) 773-2802

**ANALYSIS INFORMATION**
Extraction Date ___/___/____
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTEI Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature: _____

Name Dr Jefferson S Flowers

Title Technical Director

Laboratory Flowers Chemical Laboratories,Inc.

Date 10/29/91

Mail Results to the Appropriate DER or ACPHU Office:

_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 06/01/( () Satisfactory () Unsatisfactory

Volatile Organic Analysis
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 18114 | .00002 | <.000005 | EPA504.1 | .000005 | 10/29/91 |
| 2969 | Para-dichlorobenzene | 18114 | .075 | <0.001 | EPA502.2 | 0.001 | 10/25/91 |
| 2976 | Vinyl chloride | 18114 | 0.001 | <0.001 | EPA502.2 | 0.001 | 10/25/91 |
| 2977 | 1,1-dichloroethene | 18114 | 0.007 | <0.001 | EPA502.2 | 0.001 | 10/25/91 |
| 2980 | 1,2-dichloroethane | 18114 | 0.003 | <0.001 | EPA502.2 | 0.001 | 10/25/91 |
| 2981 | 1,1,1-trichloroethane | 18114 | 0.2 | <0.001 | EPA502.2 | 0.001 | 10/25/91 |
| 2982 | Carbon tetrachloride | 18114 | 0.003 | <0.001 | EPA502.2 | 0.001 | 10/25/91 |
| 2984 | Trichloroethene | 18114 | 0.003 | <0.001 | EPA502.2 | 0.001 | 10/25/91 |
| 2987 | Tetrachloroethene | 18114 | 0.003 | <0.001 | EPA502.2 | 0.001 | 10/25/91 |
| 2990 | Benzene | 18114 | 0.001 | <0.001 | EPA502.2 | 0.001 | 10/25/91 |

Comments:

CHEMICAL LABORATORIES

Bill to: SSU
1000 Color Pl.
Apopka, FL 32703

#14 A

ANALYTICAL & CONSULTING CHEMISTS
CHAIN OF CUSTODY RECORD
DRINKING WATER 17-550

Harold Register

split to → Sunny Hills Util

| (1)Client | (2)Address | (3)Phone |
|---|---|---|
| Sunny Hills Util | 712 Sunny Hill Blvd. Sunny Hill, FL. 32428 | 904-773-2862 |

(4)Public Drinking Water ID #

(5)Public Water System Name:

(6)Project #

(7)PO#

(8)Public Water System Type
( ) Community ( ) Non-Community ( ) Special Non-Community

| | Preservative | | Plastic Containers | | | | | | Glass Containers | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | HNO3 | ZnOAC/NaOH | 60ml | 125ml | 250ml | 500ml | 1L | Whirl Pac Bag | 40ml | 250ml | 500ml | 1L | 2L | 3L |
| (16) | | | | | | | | | | | | | | |

NOTE:

(12)Turn Around Time:
10 Working Days:
5 Working Days :
3 Working Days :
1 Working Day :
Other :

3 wells

| (17)Kit Relinquished: | (17)Date | (9)Kit Received: | (9)Date |
|---|---|---|---|
| | 10-4-91 | | |
| | (17)Time | | (9)Time |

(10)Parameter Group(s) Analysed: Turbidity__; Inorganic__; Trihalomethane__; Volatile Organic__; Organic Chemical__; Secondary Chemical__; Radiological__; Unregulated Organic Purgeable__; Unregulated Organic Pesticide : Unregulated Base Neutral Extractable : Unregulated Acid Extractable :

| (18)Laboratory Number | (11)Client Sample Identification |
|---|---|
| 18114 | #1 3 wells - pH. comp. |
| | #2 |
| | #3 |
| | #4 |
| | #5 |
| | #6 |
| | #7 |
| | #8 |
| | #9 |
| | #10 |

| | | Date | Time |
|---|---|---|---|
| (13)Collectors Signature: | Harold Register | 10-22-91 | 4:20 P.M. |
| (14)Transporters Signature: | | | |
| (15)Lab Acceptance By: | | 10/24/91 | 2:12 |

Over for numbered instructions.

State of Florida
Department of Health and Rehabilitative Services
Office of Laboratory Services
P.O. Box 210
Jacksonville, Florida 32231

FOR LAB USE ONLY

# DRINKING WATER BACTERIOLOGICAL ANALYSIS

SYSTEM NAME: SUNNY HILLS UTILITIES SYSTEM I.D. NO: 1670647 SYSTEM PHONE #(904)773-280

ADDRESS: 712 SUNNY HILLS BLVD COUNTY: WASHINGTON DER DISTRICT: N.W.

COLLECTOR: HAROLD REGISTER COLLECTOR PHONE #: (904)773-280

SAMPLE SITE (Locality or Subdivision): WELL #1 UNIT #19 -- WELL #4 UNIT #0 -- WELL #5 UNIT #10

DATE AND TIME COLLECTED: DECEMBER 4, 1991

TYPE OF SUPPLY(Circle one): (Community water system) Noncommunity water system Nontransient - noncommunity water system
Private well Swimming pool Bottled water Other public water system

TYPE OF SAMPLE(Circle one): (Compliance) Repeat Replacement Main clearance Well survey Other _____ (Specify)
(Check One)
[ ] Distribution
[ ] Raw
(Check One)
[ ] TNTC or C
[ ] Turbid
[ ]

REMARKS:

| TO BE COMPLETED BY COLLECTOR OF SAMPLE | | | | TO BE COMPLETED BY LAB | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ANALYSIS METHOD: | MF | MTF | | MMO-MUG | PA |
| COLL. NO. | SAMPLE POINT (Specific Address) | CL. RES'D | pH | SAMPLE NUMBER | NON COLIFORM | *TOTAL | CONFIRM TOTAL | CONFIRM FECAL | |
| 1 | WELL #1 | | | .17098 | | | | | |
| 2 | WELL #4 | | | .17099 | | | | | |
| 3 | PRESSURE TANK -- WELL #4 | 1.1 | | .17100 | | | | | |
| 4 | CARA CT ORION COURT | 0.3 | | .17101 | | | | | |
| 5 | VENUS CT AMBASSADOR COURT | 0.7 | | .17102 | - | | | | |
| 6 | WELL #5 | | | .17103 | - | | | | |
| 7 | PRESSURE TANK -- WELL #5 | 0.7 | | .17104 | - | | | | |

* Results in this column are preliminary. Fecal coliform confirmation on community and noncommunity water systems and total coliform confirmation on all types of water systems will follow in 24-48 hours.

P - Coliforms are present C - Confluent growth TA - Turbid, Absence of gas or acid
A - Coliforms are absent TNTC - Too numerous to count

INTERPRETATIONS-REMARKS BY PROGRAM REVIEWER

4R
5D

( )
(X) SATISFACTORY
( ) INCOMPLETE COLLECTION INFORMATION
( ) REPEAT SAMPLES
( ) REPLACEMENT SAMPLES

NAME AND MAILING ADDRESS OF PERSON/FIRM TO RECEIVE REPORT

SUNNY HILLS UTIOITIES
A DIVISION OF UNITED FLORIDA UTILITIES CORP.
712 SUNNY HILLS BLVD.
SUNNY HILLS, FL 32428

ATTN: HAROLD REGISTER

REVIEWING OFFICIAL: J.A. KING, P.E.

TITLE: POTABLE WATER ENGINEER

HRS

State of Florida
Department of Health and Rehabilitative Services
Office of Laboratory Services
P.O. Box 210
Jacksonville, Florida 32231

FOR LAB USE ONLY

# DRINKING WATER BACTERIOLOGICAL ANALYSIS

SYSTEM NAME: SUNNY HILLS UTILITIES SYSTEM I.D. NO: 1670667 SYSTEM PHONE #: (904)773-2802

ADDRESS: 712 SUNNY HILLS BLVD. COUNTY: WASHINGTON DER DISTRICT: N.W.

COLLECTOR: HAROLD REGISTER COLLECTOR PHONE #: (904)773-2802

SAMPLE SITE (Locality or Subdivision): WELL #3 UNIT #A

DATE AND TIME COLLECTED: DECEMBER 4, 1991

TYPE OF SUPPLY(Circle one): (Community water system) Noncommunity water system Nontransient - noncommunity water system
Private well Swimming pool Bottled water Other public water system

TYPE OF SAMPLE(Circle one): (Compliance (Check Box) [ ] Distribution [ ] Raw) Repeat Replacement (Check Box) [ ] TNTC or C [ ] Turbid [ ] Main clearance Well survey Other _____ (Specify)

REMARKS:

| TO BE COMPLETED BY COLLECTOR OF SAMPLE | | | | TO BE COMPLETED BY LAB | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | ANALYSIS METHOD: | MF | MTF | MMO-MUG | PA |
| COLL. NO. | SAMPLE POINT (Specific Address) | Cl RES'D | pH | SAMPLE NUMBER | NON COLIFORM | *TOTAL | CONFIRM TOTAL | CONFIRM FECAL |
| 8 | DIAMOND COURT | / | | 7105 | | | | |
| 9 | WELL #3 | | | 7106 | | | | |
| 10 | RECREATION BUILDING | | | 7107 | | | | |
| 11 | SHELBY C.T. FIRST STREET | | | 7108 | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

* Results in this column are preliminary. Fecal coliform confirmation on community and noncommunity water systems and total coliform confirmation on all types of water systems will follow in 24-48 hours.

P - Coliforms are present C - Confluent growth TA - turbid, Absence of gas or acid
A - Coliforms are absent TNTC - Too numerous to count

INTERPRETATIONS-REMARKS BY PROGRAM REVIEWER

NAME AND MAILING ADDRESS OF PERSON/FIRM TO RECEIVE REPORT

SUNNY HILLS UTILITIES
A DIVISION OF UNITED FLORIDA UTILITIES CORP.
712 SUNNY HILLS BLVD.
SUNNY HILLS, FL 32428

ATTN: HAROLD REGISTER

( )
(X) SATISFACTORY
( ) INCOMPLETE COLLECTION INFORMATION
( ) REPEAT SAMPLES
( ) REPLACEMENT SAMPLES

REVIEWING OFFICIAL: J.A. HINTZ, P.E.

TITLE: POTABLE WATER ENGINEER

# Sunshine Parkway - 560

**Lake County (SSU)**

**Water**

## - 1992 FPSC Filing -

# Sunshine Parkway

## Chemical Analyses

The most recent chemical analyses for the water system conducted by a certified laboratory covering the inorganic, organic, turbidity, microbiological, radionuclide, secondary and unregulated contaminants.

| Chemical Analysis | Date Taken |
|---|---|
| Inorganic | 8/90 |
| Organic | 8/90 |
| Volatile Organic Chemicals | 3/91 |
| | 5/91 |
| | 8/91 |
| | 11/91 |
| Turbidity | 8/90 |
| Microbiological | 12/91 |
| Radionuclide | 8/90 |
| Secondary Contaminants | 8/90 |
| Unregulated Contaminants | 3/91 |

ORLANDO LABORATORIES INC

File

P.O. Box 149127 • Orlando, Florida 32814

REPORT OF ANALYSIS

Southern States Utilities
1000 Color Place
Apopka, Florida 32703

Attn: Aaron Perlowich

Work Order # : 90-08-378
Date Received: 08/30/90
Date Reported: 09/11/90
OLI Contact: E_HOBBS

Work ID: 560 Sunshine Parkway (water)
Total Samples: 2

Sampling information is based on data supplied by Client

| SAMPLE IDENTIFICATION | TEST CODES and NAMES used on this report |
|---|---|
| 01 Cooler #309 Distribution | PWS026 Turbidity Analysis |
| 02 Method Blank | PWS029 Organic Chemical Analysis |
| | PWS030 Inorganic Analysis |
| | PWS031 Secondary Chem. Analysis |
| | PWS033 Radiological Analysis |

OLI Florida Department of Health & Rehabilitative Service Identification Numbers are:
Drinking Water Certification Number 83141, Environmental Certification Number EB3033

Respectfully Submitted,
ORLANDO LABORATORIES, INC.

Acting
LABORATORY DIRECTOR

Eric Malarek
QUALITY CONTROL

ORLANDO LABORATORIES,INC.
Received: 08/30/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-08-378

SAMPLE ID Cooler #309 Distribution
DATE COLLECTED 08/30/90 09:45:00
TEST NAME Turbidity Analysis

SAMPLE# 01A
MATRIX WATER
TEST CODE PWS026

TURBIDITY ANALYSIS
17-550.310(3)
(PWS026)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(NTU) | Analytical Method | Analysis Date |
|---|---|---|---|---|---|---|
| 0100 | Turbidity | | | 0.43 | EPA 180.1 | 08/31/90 |

Comments:

ORLANDO LABORATORIES,INC.
Received: 08/30/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-08-378

SAMPLE ID Cooler #309 Distribution
DATE COLLECTED 08/30/90 09:45:00
TEST NAME Organic Chemical Analysis

SAMPLE# 01A
MATRIX WATER
TEST CODE PWS029

ORGANIC CHEMICAL ANALYSIS
17-550.310(2)(a)(b)
(PWS029)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|---|
| 2005 | Endrin | | | 0.00010 | U | EPA 608 | 0.00010 | 08/31/90 |
| 2010 | Lindane | | | 0.00005 | U | EPA 608 | 0.00005 | 08/31/90 |
| 2015 | Methoxychlor | | | 0.00050 | U | EPA 608 | 0.00050 | 08/31/90 |
| 2020 | Toxaphene | | | 0.00100 | U | EPA 608 | 0.00100 | 08/31/90 |
| 2105 | 2,4-D | | | 0.0020 | U | EPA 615 | 0.0020 | 09/01/90 |
| 2110 | 2,4,5-TP (Silvex) | | | 0.0010 | U | EPA 615 | 0.0010 | 09/01/90 |

Comments:

ORLANDO LABORATORIES,INC.
Received: 08/30/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-08-378

SAMPLE ID Cooler #309 Distribution
DATE COLLECTED 08/30/90 09:45:00
TEST NAME Inorganic Analysis

SAMPLE# 01A
MATRIX WATER
TEST CODE PWS030

INORGANIC ANALYSIS
17-550.310(1)
(PWS030)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1005 | Arsenic | | | <0.010 | EPA 206.2 | 0.010 | 09/02/90 |
| 1010 | Barium | | | <0.100 | EPA 200.7 | 0.100 | 09/07/90 |
| 1015 | Cadmium | | | <0.005 | EPA 213.2 | 0.005 | 09/07/90 |
| 1020 | Chromium | | | <0.010 | EPA 218.2 | 0.010 | 09/07/90 |
| 1025 | Fluoride | | | <0.1 | EPA 340.2 | 0.1 | 09/12/90 |
| 1030 | Lead | | | <0.010 | EPA 239.2 | 0.010 | 09/06/90 |
| 1035 | Mercury | | | <0.0005 | EPA 245.1 | 0.0005 | 09/05/90 |
| 1040 | Nitrate (as N) | | | 2.1 | EPA 352.2 | 0.03 | 09/06/90 |
| 1045 | Selenium | | | <0.005 | EPA 270.2 | 0.005 | 09/03/90 |
| 1050 | Silver | | | <0.010 | EPA 272.2 | 0.010 | 09/10/90 |
| 1052 | Sodium | | | 5.70 | EPA 200.7 | 0.001 | 09/07/90 |

Comments:

ORLANDO LABORATORIES, INC.
Received: 08/30/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-08-378

SAMPLE ID Cooler #309 Distribution
DATE COLLECTED 08/30/90 09:45:00
TEST NAME Secondary Chem. Analysis

SAMPLE# 01A
MATRIX WATER
TEST CODE PWS031

SECONDARY CHEMICAL ANALYSIS
17-550.320
(PWS031)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1016 | Calcium | | | 38.0 | EPA 200.7 | 0.1 | 09/07/90 |
| 1017 | Chloride | | | 9.9 | SM 407 | 1.0 | 09/04/90 |
| 1019 | Carbonate CaCO3 | | | NOT ANALYZED | | | |
| 1021 | Hydroxide CaCO3 | | | NOT ANALYZED | | | |
| 1022 | Copper | | | <0.010 | EPA 200.7 | 0.010 | 09/07/90 |
| 1023 | Bicarbonate CaCO3 | | | NOT ANALYZED | | | |
| 1025 | Fluoride | | | 0.13 | EPA 340.2 | 0.1 | 09/04/90 |
| 1026 | Bicarbonate HCO3 | | | NOT ANALYZED | | | |
| 1027 | Hydrogen Sulfide | | | NOT ANALYZED | | | |
| 1028 | Iron | | | <0.100 | EPA 200.7 | 0.100 | 09/07/90 |
| 1031 | Magnesium | | | NOT ANALYZED | | | |
| 1032 | Manganese | | | <0.050 | EPA 200.7 | 0.050 | 09/07/90 |
| 1055 | Sulfate | | | 6.6 | EPA 375.4 | 1.0 | 09/04/90 |
| 1095 | Zinc | | | <0.050 | EPA 200.7 | 0.050 | 09/07/90 |
| 1901 | Carbon Dioxide | | | 19 | SM 406 C | 1.0 | 09/10/90 |
| 1905 | Color (color units) | | | 5.0 | EPA 270.2 | 5 PCU | 08/31/90 |
| 1915 | Total Hardness | | | 94.0 | EPA 200.7 | 0.050 | 09/07/90 |
| 1917 | NCH as CaCO3 | | | NOT ANALYZED | | | |
| 1920 | Odor | | | 2.0 | EPA 140.1 | 1 | 08/31/90 |
| 1924 | Field pH (units) | | | 7.0 | EPA 150.1 | N/A | 08/30/90 |
| 1925 | Lab pH (units) | | | 8.15 | EPA 150.1 | N/A | 08/31/90 |
| 1926 | Field Conductivity | | | 311 | EPA 120.1 | N/A | 08/30/90 |

ORLANDO LABORATORIES,INC.
Received: 08/30/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-08-378
Continued From Above

SAMPLE ID Cooler #309 Distribution
DATE COLLECTED 08/30/90 09:45:00
TEST NAME Secondary Chem. Analysis

SAMPLE# 01A
MATRIX WATER
TEST CODE PWS031

*** Contiued from above***
SECONDARY CHEMICAL ANALYSIS
17-550.320
(PWS031)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1927 | Total Alkalinity | | | 110 | EPA 310.1 | 2.0 | 08/31/90 |
| 1930 | TDS | | | 170 | EPA 160.1 | 1.0 | 09/06/90 |
| 1931 | Phenolphthalein Alk. | | | <2.0 | EPA 310.1 | 2.0 | 08/31/90 |
| 1996 | Field Temp. (C) | | | 82 F | EPA 170.1 | N/A | 08/30/90 |
| 1997 | Langlier Index pHs | | | 7.81 | CALC | N/A | 09/10/90 |
| 1998 | Saturation Index | | | 0.34 | CALC | N/A | 09/10/90 |
| 1999 | Stability Index | | | NOT ANALYZED | | | |
| 2903 | Foaming Agents | | | <0.1 | EPA 425.1 | 0.1 | 08/31/90 |
| 9996 | Field DO | | | 8.1 | EPA 360.1 | 0.1 | 08/30/90 |
| 9997 | Field Chlorine | | | 1.2 | | | |

Comments:

ORLANDO LABORATORIES,INC.
Received: 08/30/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-08-378

SAMPLE ID Cooler #309 Distribution
DATE COLLECTED 08/30/90 09:45:00
TEST NAME Radiological Analysis

SAMPLE# 01A
MATRIX WATER
TEST CODE PWS033

RADIOLOGICAL ANALYSIS
17-550.310(5)
(PWS033)

| Parameter ID | Name | Sample Number | Analysis Result(pCi/l) | Analytical Method | Analysis Error | Analysis Date |
|---|---|---|---|---|---|---|
| 4002 | Gross Alpha | | 1.3 | EPA 900.0 | +/- 1.4 | 09/10/90 |
| 4006 | Total Uranium | | N/A | | | |
| 4010 | Total Radium | | N/A | | | |
| 4020 | Radium-226 | | N/A | | | |
| 4030 | Radium-228 | | N/A | | | |
| 4100 | Gross Beta | | N/A | | | -- |

Comments:

ORLANDO LABORATORIES,INC.
Received: 08/30/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-08-378

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME Organic Chemical Analysis

SAMPLE# 02A
MATRIX METHOD BLANK
TEST CODE PWS029

ORGANIC CHEMICAL ANALYSIS
17-550.310(2)(a)(b)
(PWS029)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|---|
| 2005 | Endrin | | | 0.00010 | U | EPA 608 | 0.00010 | 08/31/90 |
| 2010 | Lindane | | | 0.00005 | U | EPA 608 | 0.00005 | 08/31/90 |
| 2015 | Methoxychlor | | | 0.00050 | U | EPA 608 | 0.00050 | 08/31/90 |
| 2020 | Toxaphene | | | 0.00100 | U | EPA 608 | 0.00100 | 08/31/90 |
| 2105 | 2,4-D | | | 0.0020 | U | EPA 615 | 0.0020 | 09/01/90 |
| 2110 | 2,4,5-TP (Silvex) | | | 0.0010 | U | EPA 615 | 0.0010 | 09/01/90 |

Comments:

Southern States Utilities
Attn: Aaron Perlowich

Report No: 90-08-378
Page No: 9

## QUALITY CONTROL DATA SHEET

| PARAMETER | DUPLICATES % DIFFERENCE | SPIKES % RECOVERY | DATE | ANALYST |
|---|---|---|---|---|
| Chloride | 5 | 104 | 09/04/90 | RJW |
| Fluoride | 3 | 83 | 09/04/90 | CM |
| Sulfate | <1 | 105 | 09/04/90 | KM |
| Color | <1 | N/A | 08/31/90 | RJW |
| Odor | <1 | N/A | 08/31/90 | RJW |
| TDS | 2 | N/A | 09/06/90 | KM |
| MBAS | 3 | 87 | 08/31/90 | RAW |
| pH | 1 | N/A | 08/31/90 | RJW |
| Total Alkalinity | <1 | 104 | 08/31/90 | RJW |
| Nitrogen, Nitrite | <1 | 104 | 08/31/90 | KM |
| Nitrogen, Nitrate | <1 | 100 | 09/06/90 | DR |
| Turbidity | <1 | N/A | 08/31/90 | RJW |
| Chloride | 3 | 101 | 09/04/90 | RJW |
| Gross Alpha | 0.2 | 85 | 09/10/90 | JAB |
| Arsenic | <1 | 104 | 09/02/90 | CFG |
| Selenium | <1 | 101 | 09/03/90 | CFG |
| Lead | 8 | 107 | 09/06/90 | JC |
| Mercury | <1 | 103 | 09/05/90 | LG |
| Barium | <1 | 107 | 09/07/90 | BB |
| Cadmium | <1 | 109 | 09/07/90 | BB |
| Chromium | <1 | 100 | 09/07/90 | BB |
| Sodium | 1 | 108 | 09/07/90 | BB |
| Copper | <1 | 103 | 09/07/90 | BB |
| Iron | 3 | 109 | 09/07/90 | BB |
| Manganese | <1 | 97 | 09/07/90 | BB |
| Zinc | <1 | 100 | 09/07/90 | BB |
| Calcium | 1 | 108 | 09/07/90 | BB |
| Silver | <1 | 97 | 09/10/90 | BB |

NOTE: The duplicate for Gross Alpha is reported as actual difference rather than percent difference as specified.

ORLANDO LABORATORIES, INC.

GC ORGANICS



# MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 08-31-1990

LAB SAMPLE # : 9008350-01a
ANALYSIS DATE : 08/31/90

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| GAMMA-BHC (LINDANE) | 100 | 0 | 105 | 105 | 117 | 117 | 11 |
| HEPTACHLOR | 100 | 0 | 106 | 106 | 112 | 112 | 6 |
| ALDRIN | 100 | 0 | 104 | 104 | 110 | 110 | 6 |
| DIELDRIN | 100 | 0 | 108 | 108 | 108 | 108 | 0 |
| ENDRIN | 100 | 0 | 108 | 108 | 108 | 108 | 0 |
| 4,4-DDT | 100 | 0 | 104 | 104 | 113 | 113 | 8 |

COMMENTS

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| GAMMA-BHC (LINDANE) | 56 | 123 | 15 | 46 | 127 | 50 |
| HEPTACHLOR | 40 | 131 | 20 | 35 | 130 | 31 |
| ALDRIN | 40 | 120 | 22 | 34 | 132 | 43 |
| DIELDRIN | 52 | 126 | 18 | 31 | 134 | 38 |
| ENDRIN | 56 | 121 | 21 | 42 | 139 | 45 |
| 4,4-DDT | 38 | 127 | 27 | 23 | 134 | 50 |

ORLANDO LABORATORIES, INC.



GC ORGANICS

# MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 09-05-1990

LAB SAMPLE # : 9008378-01A
ANALYSIS DATE : 09/01/90

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| PICLORAM | 100 | 0 | 108 | 108 | 115 | 115 | 6 |
| 2,4,5-TP (silver) | 100 | 0 | 94 | 94 | 95 | 95 | 1 |

COMMENTS :

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| PICLORAM | 80 | 175 | 30 | 80 | 175 | 30 |
| 2,4,5-TP (silver) | 80 | 175 | 30 | 80 | 175 | 30 |

End of Report

# PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 3350491
Public Water System Name: Sunshine Parkway
Public Water System Type (check one):
(✓) Community ( ) Non-community ( ) Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: 83141
Parameter Group(s) Analyzed: Turbidity Analysis, Org. Chem. Analysis, Inorganic Analysis, Sec. Chem. Analysis & Radiological Analysis.
Subcontracted Lab Certification Number (if any): N/A

**SAMPLE INFORMATION**
Sample Date (MMDDYY): 08/30/90
Laboratory Sample Number: 90-08-378
Sample Location (be specific): _____
Sample Type (check all applicable):

| | | |
|---|---|---|
| ( ) Check | (✓) Regular Distribution | ( ) Composite |
| ( ) Clearance | ( ) Maximum Residence Time | (✓) Plant Tap |
| (✓) Raw | (✓) Wet | ( ) Re-sample |
| ( ) Special _____ | | |

Sampler Name, Title, Phone: _____

| **ANALYSIS INFORMATION** | | |
|---|---|---|
| Extraction Date (MMDDYY): | 08/30/90 | 08/31/90 |
| | PWS029 | PWS029 |

Laboratory Contact: Eric Malarek
Re-sample Requested? (check one): ( ) Yes ( ) No
ANALYSES SUBMITTED: Turbidity__; Inorganic__; Trihalomethane__; Volatile Organic__; Organic Chemical__; Secondary Chemical__; Radiological__; Unregulated Organic Purgeable__; Unregulated Organic Pesticide__; Unregulated Base Neutral Extractable__; Unregulated Acid Extractable__; (Check all analyses which apply.)

I do HEREBY CERTIFY that all data submitted is correct.

Signature Eric Malarek
Name Eric Malarek
Title Quality Control Officer
Laboratory Orlando Laboratories, Inc.
Date 9-11-90

Mail Results to the Appropriate DER or ACPHU Office:

DER/ACPHU Reviewing Official:

_____

Sample Interpretation (check one)
( ) Satisfactory ( ) Unsatisfactory

**ORLANDO LABORATORIES, INC.**
P.O. Box 149127, Orlando, FL 32814
(407) 896-6645 FAX (407) 898-6588

# CHAIN-OF-CUSTODY RECORD
(INSTRUCTIONS ON BACK)

Page 1 of 1

| 1 INVOICE TO: (COMPANY AND INDIVIDUAL) / ADDRESS (CITY, STATE, ZIP) | 2 CONTACT PERSON/PHONE # INVOICE | 3 OLM WORK ORDER # (LAB USE) |
|---|---|---|
| SSU Services 1000 Celon Plaza Apopka, Fla. 32703 | 880-0100 | 100838 |
| **4 ORIGINAL REPORT TO (COMPANY AND INDIVIDUAL) / ADDRESS (CITY, STATE, ZIP)** | **5 CONTACT PERSON/PHONE # REPORT** | **6 RB NUMBER (LAB USE)** |
| Aaron Perlquist Same as above | Same as above | 1823 |
| **7 (OPTIONAL) ADDITIONAL REPORTS SENT TO: / ADDRESS (CITY, STATE, ZIP)** | | |

| 8 CLIENT PROJECT NAME | 9 CLIENT PROJECT # |
|---|---|
| Sunshine Parkway (Water) | 560 |

| 10 SAMPLE IDENTIFICATION | 11 DATE/TIME | 12 COMP | GRAB | WATER | SOIL | OTHER | 13 SAMPLE DESCRIPTION | 17 NUMBER OF CONTAINERS | 18 REQUESTED ANALYSIS: Primary Inorganics | Secondary Inorganics | THM's & 6-A | Pesticides/PCB's (Pest. & Herb.) | REMARKS 19 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cooler #309 | 8/30 9:45am | | ✓ | ✓ | | | ~~Pond Inf~~ Distribution | | ✓ | ✓ | ✓ | | |

| TRANSFER NUMBER | 14 RELINQUISHED BY | 15 DATE/TIME | 16 ACCEPTED BY |
|---|---|---|---|
| 1st | Dope | 8/31 9:00 | |
| 2nd | John D. Ravenscroft | 8-30-90 3:50 | L Lehmicht |
| 3rd | | | |

ADDITIONAL REMARKS 20: D.O. 7.1, Temp. 82, Conductivity - 311, PH 7.0

COOLER # 21: 309

22 SAMPLER'S SIGNATURE: Dennis W. Moro

ORIGINAL - LAB
YELLOW - FILE
PINK - CLIENT

0812

SSU
SERVICES

**General Offices**
1000 Color Place
Apopka, FL 32703
(407) 880-0058

April 30, 1991

Ms. Marie Carrasquillo
State of Florida
Department of Environmental Regulations
3319 Maguire Boulevard
Suite 232
Orlando, Florida 32803-3767

Re: Fern Terrace PWS ID #3350370
Piney Woods/Spring Lake PWS ID #3351021
Stone Mountain PWS ID #3351282
Imperial Terrace PWS ID #3350584
Skycrest PWS ID #3351205
Grand Terrace PWS ID #3354697
Sunshine Parkway PWS ID #3350691

Dear Ms. Carrasquillo,

Enclosed please find results for Volatile Organic Analysis, Unregulated Organic Purgeables, Unregulated Organic Pesticides, Unregulated Base Neutral Extracts and Unregulated Acid Extractables for the above referenced facilities.

Please enter this information into your records.

Sincerely,

SSU Services

Donald B. Corder

Donald B. Corder
Area Supervisor

DBC/jlm
cc: Charles Sweat
Frank Sanderson
Ralph Terrero
Clara Dozier
File

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Apr16 1991
PO Number: B91039

PO Number
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: Water Sample
Date Received: Mar26 1991 Lab Number : 16538

REPORT OF ANALYSIS

Sunshine Pky 1st Qtr.

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16538 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 94.0 | 3.52 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 115 | 8.65 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 108 | .790 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 108 | .790 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 112 | 8.27 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 101 | .406 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 102 | 1.06 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 112 | .654 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 119 | 5.18 | <0.001 |
| Benzene | mg/L | 0.001 | 93.8 | .469 | <0.001 |
| Chloromethane | mg/L | 0.001 | 113 | .805 | <0.001 |
| Dichlorodifluorometh | mg/L | 0.001 | 102 | 1.06 | <0.001 |
| Bromomethane | mg/L | 0.001 | 113 | .805 | <0.001 |
| Chloroethane | mg/L | 0.001 | 108 | .790 | <0.001 |
| Trichlorofluorometha | mg/L | 0.001 | 102 | 1.06 | <0.001 |
| trans-1,3,-dichlorop | mg/L | 0.001 | 110 | .789 | <0.001 |
| cis-1,3-dichloroprop | mg/L | 0.001 | 114 | 6.25 | <0.001 |
| Methyl-tert-butyleth | mg/L | 0.001 | 105 | 4.91 | <0.001 |
| cis-1,2-dichloroethe | mg/L | 0.001 | 114 | 6.25 | <0.001 |
| Dibromomethane | mg/L | 0.001 | 113 | .805 | <0.001 |
| 1,1-dichloropropene | mg/L | 0.001 | 107 | 0.88 | <0.001 |
| 1,3-dichloropropane | mg/L | 0.001 | 110 | .789 | <0.001 |
| 1,2,3-trichloropropa | mg/L | 0.001 | 108 | 8.11 | <0.001 |
| 2,2-dichloropropane | mg/L | 0.001 | 108 | .790 | <0.001 |
| 1,2-dibromo-3-chloro | mg/L | 0.001 | 108 | 8.11 | <0.001 |
| Chloroform | mg/L | 0.001 | 87.2 | .055 | <0.001 |

Data Release Authorization

Sample integrity and reliability certified by Lab personnel prior to analysis. Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P O BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS 407 339-5986

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Apr16 1991
PO Number: B91039

PO Number
FDHRS Lab# : 83139
FDER Lab# : EB3018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: Water Sample
Date Received: Mar26 1991 Lab Number : 16538

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16538 |
|---|---|---|---|---|---|
| Bromoform | mg/L | 0.001 | 118 | 7.84 | <0.001 |
| Bromodichloromethane | mg/L | 0.001 | 102 | 3.28 | <0.001 |
| Dibromochloromethane | mg/L | 0.001 | 116 | 3.14 | <0.001 |
| p-xylene | mg/L | 0.001 | 109 | 7.34 | <0.001 |
| Methylene chloride | mg/L | 0.001 | 113 | .805 | <0.001 |
| o-chlorotoluene | mg/L | 0.001 | 104 | 5.33 | <0.001 |
| p-chlorotoluene | mg/L | 0.001 | 94.7 | 2.11 | <0.001 |
| m-dichlorobenzene | mg/L | 0.001 | 116 | 8.44 | <0.001 |
| o-dichlorobenzene | mg/L | 0.001 | 114 | 5.62 | <0.001 |
| 1,1-dichloroethane | mg/L | 0.001 | 101 | .393 | <0.001 |
| trans-1,2-dichloroet | mg/L | 0.001 | 109 | 4.49 | <0.001 |
| 1,2-dichloropropane | mg/L | 0.001 | 103 | .462 | <0.001 |
| 1,1,2-trichloroethan | mg/L | 0.001 | 120 | 4.60 | <0.001 |
| 1,1,1,2-tetrachloroe | mg/L | 0.001 | 108 | 5.39 | <0.001 |
| 1,1,2,2-tetrachloroe | mg/L | 0.001 | 118 | 8.78 | <0.001 |
| Chlorobenzene | mg/L | 0.001 | 109 | .539 | <0.001 |
| Toluene | mg/L | 0.001 | 94.7 | 2.11 | <0.001 |
| Ethylbenzene | mg/L | 0.001 | 99.5 | 3.11 | <0.001 |
| Bromobenzene | mg/L | 0.001 | 109 | .539 | <0.001 |
| m-xylene | mg/L | 0.001 | 109 | 7.34 | <0.001 |
| Styrene | mg/L | 0.001 | 94.7 | 2.11 | <0.001 |
| o-xylene | mg/L | 0.001 | 109 | 7.34 | <0.001 |
| Dalapon | mg/L | 0.000001 | 101 | 7.33 | <0.000001 |
| Oxamyl (Vydate) | mg/L | 0.002 | 93.8 | 5.66 | <0.002 |
| Simazine | mg/L | 0.007 | 99.8 | 1.68 | <0.007 |
| Picloram | mg/L | 0.00007 | 92.0 | 6.15 | <0.00007 |

Data Release Authorization

Sample integrity and reliability certified by Lab personnel prior to analysis. Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director

Jefferson S. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5584

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Apr16 1991
PO Number: B91039

PO Number
FDHRS Lab# : 83139
FDER Lab# : EB3018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: Water Sample
Date Received: Mar26 1991 Lab Number : 16538

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16538 |
|---|---|---|---|---|---|
| Dinoseb | mg/L | 0.00001 | 110 | 2.26 | <0.00001 |
| Aldicarb sulfoxide | mg/L | 0.002 | 95.8 | 5.54 | <0.002 |
| Aldicarb sulfone | mg/L | 0.002 | 95.0 | 8.19 | <0.002 |
| Metolachlor | mg/L | 0.0005 | 98.0 | 4.33 | <0.0005 |
| Carbofuran | mg/L | 0.001 | 97.0 | .000 | <0.001 |
| Aldicarb | mg/L | 0.002 | 110 | 5.81 | <0.002 |
| Atrazine | mg/L | 0.002 | 104 | 5.22 | <0.002 |
| Alachlor (Lasso) | mg/L | 0.0002 | 87.0 | 10.6 | <0.0002 |
| Heptachlor | mg/L | 0.000005 | 102 | .834 | <0.000005 |
| Aldrin | mg/L | 0.00007 | 110 | .642 | <0.00007 |
| Dieldrin | mg/L | 0.00001 | 97.1 | 8.88 | <0.00001 |
| Dicamba | mg/L | 0.00001 | 85.5 | 19.8 | <0.00001 |
| Chlordane | mg/L | 0.00001 | 101 | 2.39 | <0.00001 |
| Pentachlorophenol | mg/L | 0.005 | 98.7 | 2.07 | <0.005 |
| Hexachlorocyclopenta | mg/L | 0.001 | 111 | 2.55 | <0.001 |
| Dioxin | mg/L | 0.00001 | 97.9 | 3.61 | <0.00001 |
| Isophorone | mg/L | 0.001 | 96.2 | 3.47 | <0.001 |
| 2,4-dinitrotoluene | mg/L | 0.001 | 99.9 | 6.20 | <0.001 |
| Dimethylphthalate | mg/L | 0.001 | 98.7 | 3.64 | <0.001 |
| Diethylphthalate | mg/L | 0.001 | 102 | 4.04 | <0.001 |
| Di-n-butylphthalate | mg/L | 0.001 | 99.2 | 2.74 | <0.001 |
| Butyl benzyl phthala | mg/L | 0.001 | 102 | 3.21 | <0.001 |
| Bis(2-ethylhexyl)pht | mg/L | 0.001 | 98 | 4.43 | <0.001 |
| 1,2,4-trichlorobenze | mg/L | 0.001 | 98.3 | 4.44 | <0.001 |
| PCB_1016 | mg/L | 0.0001 | 96.7 | 1.32 | <0.0001 |
| PCB_1221 | mg/L | 0.0001 | 96.3 | 1.91 | <0.0001 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984
Fax (407) 260-6[illegible]

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Apr16 1991
PO Number: B91039

PO Number
FDHRS Lab# : 83139
FDER Lab# : EB3018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: Water Sample
Date Received: Mar26 1991 Lab Number : 16538

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16538 |
|---|---|---|---|---|---|
| PCB_1232 | mg/L | 0.0001 | 104 | .408 | <0.0001 |
| PCB_1242 | mg/L | 0.0001 | 105 | 2.02 | <0.0001 |
| PCB_1248 | mg/L | 0.0001 | 99.4 | 3.41 | <0.0001 |
| PCB_1254 | mg/L | 0.0001 | 96.7 | 1.90 | <0.0001 |
| PCB_1260 | mg/L | 0.0001 | 103 | 3.15 | <0.0001 |
| Dioctylphthalate | mg/L | 0.001 | 99 | 1.21 | <0.001 |
| 2-chlorophenol | mg/L | 0.001 | 95.7 | 1.45 | <0.001 |
| 2-methyl-4,6-dinitop | mg/L | 0.001 | 103 | 1.95 | <0.001 |
| Phenol | mg/L | 0.001 | 98.6 | 3.79 | <0.001 |
| 2,4,6-trichloropheno | mg/L | 0.001 | 99.7 | 2.82 | <0.001 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



Jefferson S. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P O BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS 407 339-4984
FAX 407 260-

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 3350691
Public Water System Name Sunshine Parkway
Public Water System Type (check one):
(X)Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyzed: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable_X_; Unregulated Organic Pesticide_X_;
Unregulated Base Neutral Extractable_X_;Unregulated Acid Extractable__X_;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number 16538
Sample Location (be specific): _____
Sample Type (check all applicable):
( )Check ( )Regular Distribution (X)Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
(X)Raw (X)Well ( )Resample
( )Special _____
Sampler Name, Title Phone:_____
_____

**ANALYSIS INFORMATION**
Extraction Date 3/30/91
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTED: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature: _____

Name Dr Jefferson S Flowers

Title Technical Director

Laboratory Flowers Chemical Laboratories,Inc.

Date 4/15/91

Mail Results to the Appropriate DER or ACPHU Office:
_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 06/01/8 () Satisfactory () Unsatisfactory

## Volatile Organic Analysis
17-550.310(2)(d)
(PWS029)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 16538 | .00002 | <.000005 | EPA504.1 | .000005 | 4/11/91 |
| 2969 | Para-dichlorobenzene | 16538 | .075 | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2976 | Vinyl chloride | 16538 | 0.001 | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2977 | 1,1-dichloroethene | 16538 | 0.007 | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2980 | 1,2-dichloroethane | 16538 | 0.003 | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2981 | 1,1,1-trichloroethane | 16538 | 0.2 | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2982 | Carbon tetrachloride | 16538 | 0.003 | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2984 | Trichloroethene | 16538 | 0.003 | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2987 | Tetrachloroethene | 16538 | 0.003 | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2990 | Benzene | 16538 | 0.001 | <0.001 | EPA502.2 | 0.001 | 3/30/91 |

Comments:

## Unregulated Organic Purgeable Analysis
17-550.410(1)
(PWS034)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2210 | Chloromethane | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2212 | Dichlorodifluoromethan | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2214 | Bromomethane | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2216 | Chloroethane | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2218 | Trichlorofluoromethane | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2224 | trans-1,3,-dichloroprop | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2228 | cis-1,3-dichloropropene | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2251 | Methyl-tert-butylether | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2380 | cis-1,2-dichloroethene | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2408 | Dibromomethane | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2410 | 1,1-dichloropropene | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2412 | 1,3-dichloropropane | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2414 | 1,2,3-trichloropropane | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2416 | 2,2-dichloropropane | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2931 | 1,2-dibromo-3-chloropr | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2941 | Chloroform | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2942 | Bromoform | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2943 | Bromodichloromethane | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2944 | Dibromochloromethane | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2962 | p-xylene | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2964 | Methylene chloride | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2965 | o-chlorotoluene | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2966 | p-chlorotoluene | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2967 | m-dichlorobenzene | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2968 | o-dichlorobenzene | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2978 | 1,1-dichloroethane | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2979 | trans-1,2-dichloroethyl | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2983 | 1,2-dichloropropane | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2985 | 1,1,2-trichloroethane | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2986 | 1,1,1,2-tetrachloroetha | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2988 | 1,1,2,2-tetrachloroetha | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2989 | Chlorobenzene | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2991 | Toluene | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2992 | Ethylbenzene | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2993 | Bromobenzene | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2995 | m-xylene | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2996 | Styrene | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2997 | o-xylene | 16538 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |

Comments:

Unregulated Organic Pesticide Analysis
17-550.410(2)
(PWS035)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2031 | Dalapon | 16538 | | <.000001 | EPA515 | .000001 | 4/10/91 |
| 2036 | Oxamyl (Vydate) | 16538 | | <0.002 | EPA531 | 0.002 | 3/28/91 |
| 2037 | Simazine | 16538 | | <0.007 | EPA505 | 0.007 | 4/10/91 |
| 2040 | Picloram | 16538 | | <0.00007 | EPA515 | 0.00007 | 4/10/91 |
| 2041 | Dinoseb | 16538 | | <0.00001 | EPA515 | 0.00001 | 4/10/91 |
| 2043 | Aldicarb sulfoxide | 16538 | | <0.002 | EPA531 | 0.002 | 3/28/91 |
| 2044 | Aldicarb sulfone | 16538 | | <0.002 | EPA531 | 0.002 | 3/28/91 |
| 2045 | Metolachlor | 16538 | | <0.0005 | EPA505 | 0.0005 | 4/10/91 |
| 2046 | Carbofuran | 16538 | | <0.001 | EPA531 | 0.001 | 3/28/91 |
| 2047 | Aldicarb | 16538 | | <0.002 | EPA531 | 0.002 | 3/28/91 |
| 2050 | Atrazine | 16538 | | <0.002 | EPA505 | 0.002 | 4/10/91 |
| 2051 | Alachlor (Lasso) | 16538 | | <0.0002 | EPA505 | 0.0002 | 4/10/91 |
| 2065 | Heptachlor | 16538 | | <.000005 | EPA508 | .000005 | 4/5/91 |
| 2356 | Aldrin | 16538 | | <0.00007 | EPA508 | 0.00007 | 4/5/91 |
| 2364 | Dieldrin | 16538 | | <0.00001 | EPA508 | 0.00001 | 4/5/91 |
| 2440 | Dicamba | 16538 | | <0.00001 | EPA515 | 0.00001 | 4/10/91 |
| 2959 | Chlordane | 16538 | | <0.00001 | EPA508 | 0.00001 | 4/5/91 |
| 9114 | Pentachlorophenol | 16538 | | <0.005 | EPA515 | 0.005 | 4/10/91 |

Comments:

Unregulated Base Neutral Extractable Analysis
17-550.410(3)
(PWS036)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2042 | Hexachlorocyclopentadie | 16538 | | <0.001 | EPA508 | 0.001 | 4/10/91 |
| 2063 | Dioxin | 16538 | | <0.00001 | EPA613 | 0.00001 | 4/5/91 |
| 2262 | Isophorone | 16538 | | <0.001 | EPA609 | 0.001 | 4/10/91 |
| 2270 | 2,4-dinitrotoluene | 16538 | | <0.001 | EPA609 | 0.001 | 4/10/91 |
| 2282 | Dimethylphthalate | 16538 | | <0.001 | EPA606 | 0.001 | 4/10/91 |
| 2284 | Diethylphthalate | 16538 | | <0.001 | EPA606 | 0.001 | 4/10/91 |
| 2290 | Di-n-butylphthalate | 16538 | | <0.001 | EPA606 | 0.001 | 4/10/91 |
| 2294 | Butyl benzyl phthalate | 16538 | | <0.001 | EPA606 | 0.001 | 4/10/91 |
| 2298 | Bis(2-ethylhexyl)phthal | 16538 | | <0.001 | EPA606 | 0.001 | 4/10/91 |
| 2378 | 1,2,4-trichlorobenzene | 16538 | | <0.001 | EPA612 | 0.001 | 4/10/91 |
| 2388 | PCB 1016 | 16538 | | <0.0001 | EPA505 | 0.0001 | 4/5/91 |
| 2390 | PCB 1221 | 16538 | | <0.0001 | EPA505 | 0.0001 | 4/5/91 |
| 2392 | PCB 1232 | 16538 | | <0.0001 | EPA505 | 0.0001 | 4/5/91 |
| 2394 | PCB 1242 | 16538 | | <0.0001 | EPA505 | 0.0001 | 4/5/91 |
| 2396 | PCB 1248 | 16538 | | <0.0001 | EPA505 | 0.0001 | 4/5/91 |
| 2398 | PCB 1254 | 16538 | | <0.0001 | EPA505 | 0.0001 | 4/5/91 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 2400 | PCB 1260 | 16538 | <0.0001 | EPA505 | 0.0001 | 4/5/91 |
| 9089 | Dioctylphthalate | 16538 | <0.001 | EPA606 | 0.001 | 4/10/91 |

Comments:

Unregulated Acid Extractable Analysis
17-550.410(4)
(PWS037)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 9108 | 2-chlorophenol | 16538 | | <0.001 | EPA604 | 0.001 | 4/10/91 |
| 9112 | 2-methyl-4,6-dinitophe | 16538 | | <0.001 | EPA604 | 0.001 | 4/10/91 |
| 9115 | Phenol | 16538 | | <0.001 | EPA604 | 0.001 | 4/10/91 |
| 9116 | 2,4,6-trichlorophenol | 16538 | | <0.001 | EPA604 | 0.001 | 4/10/91 |

Comments:

SSU
SERVICES

**General Offices**
1000 Color Place
Apopka, FL 32703
(407) 880-0058

June 7, 1991

Ms. Marie Carrasquillo
State of Florida
Department of Environmental Regulation
3319 Maguire Boulevard
Suite 232
Orlando, Florida 32803-3767

Re: Lake County - PW
Sunshine Parkway PWS ID #3350691
Piney Woods/Spring Lake PWS ID #3351021
Stone Mountain PWS ID #3351282

Dear Ms. Carrasquillo,

Enclosed please find results for Volatile Organic Analysis second quarter for the above referenced facilities.

Please enter this information into your records.

Sincerely,

SSU Services

Donald B. Corder

Donald B. Corder
Division Supervisor

DBC/jlm

cc: Charles Sweat
Clara Dozier
File

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Jun 4 1991
PO Number: B91039
PO Number SSU
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: COMP. SAMPLE
Date Received: May31 1991 Lab Number : 17042

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 17042 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 95.1 | 6.83 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 104 | .994 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 118 | 17.9 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 118 | 17.9 | <0.001 |
| 1,2-dichloroetnane | mg/L | 0.001 | 104 | .847 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 102 | 1.74 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 86.8 | 12.0 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 107 | 2.31 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 106 | 3.07 | <0.001 |
| Benzene | mg/L | 0.001 | 95.5 | 11.8 | <0.001 |

Data Release Authorization

Sample integrity and reliability certified by Lab personnel prior to analysis. Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P O BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984
FAX (407) 260-6110

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 3350691
Public Water System Name: Sunshine Parkway
Public Water System Type (check one):
(X)Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyzi Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable___;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number 17042
Sample Location (be specific): #1 & 2 Wells (Plant S.W.)
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
(X)Raw (X)Well ( )Resample
( )Special_____
Sampler Name, Title Phone:_____
_____

**ANALYSIS INFORMATION**
Extraction Date ___/___/___
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTED Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable___;

I do HEREBY CERTIFY that all data submitted are correct.

Signature:

Name Dr Jefferson S Flowers

Title Technical Director

Laboratory Flowers Chemical Laboratories,Inc.

Date 6/4/91

Mail Results to the Appropriate DER or ACPHU Office:
_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 06/01/8 () Satisfactory () Unsatisfactory

Volatile Organic Analysis
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 17042 | .00002 | <.000005 | EPA504.1 | .000005 | 6/3/91 |
| 2969 | Para-dichlorobenzene | 17042 | .075 | <0.001 | EPA502.2 | 0.001 | 6/3/91 |
| 2976 | Vinyl chloride | 17042 | 0.001 | <0.001 | EPA502.2 | 0.001 | 6/3/91 |
| 2977 | 1,1-dichloroethene | 17042 | 0.007 | <0.001 | EPA502.2 | 0.001 | 6/3/91 |
| 2980 | 1,2-dichloroethane | 17042 | 0.003 | <0.001 | EPA502.2 | 0.001 | 6/3/91 |
| 2981 | 1,1,1-trichloroethane | 17042 | 0.2 | <0.001 | EPA502.2 | 0.001 | 6/3/91 |
| 2982 | Carbon tetrachloride | 17042 | 0.003 | <0.001 | EPA502.2 | 0.001 | 6/3/91 |
| 2984 | Trichloroethene | 17042 | 0.003 | <0.001 | EPA502.2 | 0.001 | 6/3/91 |
| 2987 | Tetrachloroethene | 17042 | 0.003 | <0.001 | EPA502.2 | 0.001 | 6/3/91 |
| 2990 | Benzene | 17042 | 0.001 | <0.001 | EPA502.2 | 0.001 | 6/3/91 |

Comments:

[redacted]

FDER Lab ID#
FDHRS Lab ID#
NCDEHNR Lab #
SCDHEC Lab #

ANALYTICAL & CONSULTING CHEMISTS
CHAIN OF CUSTODY RECORD
DRINKING WATER 17-050

Don Corder

| (1) Client | (2) Address | (3) Phone |
|---|---|---|
| Southern States Util | 1000 Color Place Apopka, FL 32703 | 880-0055 X149 |

| (4) Public Drinking Water ID # | (5) Public Water System Name: Sunshine/Piney Woods/Spring Lk/ |
|---|---|
| (6) Project # | (7) Public Water System Type: [✓] Community [ ] Non-Community [ ] Special Non-Community |
| (12) PO# 391039 | Stone Mtn (2 25 Qtr. VOA's) |

| | | Preservative | | | Plastic Containers | | | | | | Glass Containers | | | | | | NOTES: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | HNO3 | ZnOAC/NaOH | | 60ml | 125ml | 250ml | 500ml | 1L | Whirl-Pac 9oz | 40ml | 250ml | 500ml | 1L | 2L | 4L | (9) Turn Around Time: |
| | 10 | | | | | | | | | | X | | | | | | 10 Working Days: |
| | | | | | | | | | | | | | | | | | 5 Working Days : |
| | | | | | | | | | | | | | | | | | 3 Working Days : |
| | | | | | | | | | | | | | | | | | 1 Working Day : |
| | | | | | | | | | | | | | | | | | Other : |
| | | | | | | | | | | | | | | | | | Please composite |

| (10) Relinquished: | (10) Date / Time | (11) Received | (11) Date / Time |
|---|---|---|---|
| [signature] | 5-28 | | |

SAMPLE INFORMATION; SAMPLE DATE: MONTH_____ DATE_____ YEAR_____
SAMPLE TYPE ( check all applicable): ( ) check, ( ) regular distribution
( ) composite, ( ) clearance, ( ) max residence time, ( ) plant tap,
( ) raw, ( ) well, ( ) resample_____, ( ) special_____
SAMPLER'S NAME:_____ TITLE:_____ PHONE:_____
SAMPLER'S SIGNATURE:_____
NOTES:

(13) Parameter Group(s) Analysed: Turbidity__; Inorganic__; Trihalomethane__; Volatile Organic 41
Organic Chemical__; Secondary Chemical__; Radiological__; Unregulated Organic Purgeable__;
Unregulated Organic Pesticide__; Unregulated Base Neutral Extractable__; Unregulated Acid Extractable__;

| (14) Laboratory Number | (15) Client Sample Identification |
|---|---|
| 17042 | #1 |
| | #2 |
| | #3 |
| | #4 |
| | #5 |
| | #6 |
| | #7 |
| | #8 |
| | #9 |
| | #10 |

| | | Date | Time |
|---|---|---|---|
| (16) Collectors Signature: | [signature] | 5-30-91 | |
| (17) Transporters Signature: | [signature] | 5-31-91 | |
| (18) Lab Acceptance By: | [signature] | 5-31-91 | 12:35pm |

See back for instructions for completion

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Aug23 1991
PO Number: B91039
PO Number SSU
FDHRS Lab# : 83139
FDER Lab# : EB3018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 560/553/565
Date Received: Aug16 1991 Lab Number : 17558

REPORT OF ANALYSIS

Sunshine Parkway
3rd Qtr. VOC

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 17558 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 99.9 | 2.87 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 88.8 | 1.44 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 89.8 | 1.56 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 89.8 | 1.56 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 89.9 | .654 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 91.5 | .716 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 91.0 | .626 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 92.2 | .986 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 87.3 | 2.10 | <0.001 |
| Benzene | mg/L | 0.001 | 98.6 | 1.13 | <0.001 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P O BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984
FAX (407) 260-6110

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 3350691
Public Water System Name: Sunshine Parkway
Public Water System Type (check one):
(M)Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyzed: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number 17558
Sample Location (be specific): #1 & #2 Wells
Sample Type (check all applicable):
( )Check ( )Regular Distribution (M)Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
(M)Raw (M)Well ( )Resample
( )Special_____
Sampler Name, Title Phone: Lance Shreffler - Operator.

**ANALYSIS INFORMATION**
Extraction Date ___/___/____
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTED Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature:

Name **Dr Jefferson S Flowers**

Title **Technical Director**

Laboratory **Flowers Chemical Laboratories,Inc.**

Date **8/23/91**

Mail Results to the Appropriate DER or ACPHU Office:

DER /ACPHU Reviewing Offical:

PWSA.01 Sample Interpretation (check one):
Effective 06/01/9 () Satisfactory () Unsatisfactory

Volatile Organic Analysis
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 17558 | .00002 | ≤.000005 | EPA504.1 | .000005 | 8/22/91 |
| 2969 | Para-dichlorobenzene | 17558 | .075 | <0.001 | EPA502.2 | 0.001 | 8/19/91 |
| 2976 | Vinyl chloride | 17558 | 0.001 | <0.001 | EPA502.2 | 0.001 | 8/19/91 |
| 2977 | 1,1-dichloroethene | 17558 | 0.007 | <0.001 | EPA502.2 | 0.001 | 8/19/91 |
| 2980 | 1,2-dichloroethane | 17558 | 0.003 | <0.001 | EPA502.2 | 0.001 | 8/19/91 |
| 2981 | 1,1,1-trichloroethane | 17558 | 0.2 | <0.001 | EPA502.2 | 0.001 | 8/19/91 |
| 2982 | Carbon tetrachloride | 17558 | 0.003 | <0.001 | EPA502.2 | 0.001 | 8/19/91 |
| 2984 | Trichloroethene | 17558 | 0.003 | <0.001 | EPA502.2 | 0.001 | 8/19/91 |
| 2987 | Tetrachloroethene | 17558 | 0.003 | <0.001 | EPA502.2 | 0.001 | 8/19/91 |
| 2990 | Benzene | 17558 | 0.001 | <0.001 | EPA502.2 | 0.001 | 8/19/91 |

Comments:

ANALYTICAL & CONSULTING CHEMISTS
CHAIN OF CUSTODY RECORD
DRINKING WATER 11-850

Name: Dan Corder
Affiliation: SSU
Address: 1000 Color Place Apopka, FL 32703
Phone: 880-0058
Public Drinking Water ID #:
Project #: B91039
Public Water System Name:
Public Water System Type: ( ) Community ( ) Non-Community ( ) Special Non-Community

| | Preservative | | Plastic Containers | | | | | Glass Containers | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | HNO3 | H2SO4/NaOH | 60ml | 125ml | 250ml | 500ml | 1L | Other | 40ml | 120ml | 500ml | 1L | 4L |
| 15 | | | | | | | | | X | | | | |

Turn Around Time:
10 Working Days:
5 Working Days:
1 Working Day:
Other:

Relinquished: Date Time
Received: Date Time

SAMPLE INFORMATION: SAMPLE DATE: MONTH ____ DATE ____ YEAR ____
SAMPLE TYPE (check all applicable): ( ) check, ( ) regular distribution ( ) composite, ( ) clearance, ( ) max residence time, ( ) plant tap, ( ) raw, ( ) well, ( ) resample ____, ( ) special ____
SAMPLER'S NAME: ____ TITLE: ____ PHONE: ____
SAMPLER'S SIGNATURE: ____
AREA:
(1) #560 Sunshine Pkway - #3350691
(2) #353 Piney Woods/Spring Lk. Manor - #3351021
(3) Stone Mountain - #3351282 #565

> Please composite.

Parameter Group(s) Analyzed: Turbidity ___ Inorganic ___ Trihalomethane ___ Volatile Organic X
Organic Chemical ___ Secondary Chemical ___ Radiological ___ Unregulated Organic Composite ___
Unregulated Organic Pesticide ___ Unregulated Base Neutral Extractable ___ Unregulated Acid Extractable ___

| Laboratory Number | Client Sample Identification |
|---|---|
| 17558 | #1 |
| | #2 |
| | #3 |
| | #4 |
| | #5 |
| | #6 |
| | #7 |
| | #8 |
| | #9 |
| | #10 |

| | | Date | Time |
|---|---|---|---|
| Collectors Signature: | Dave Shaffer | 8-16-91 | |
| Transporters Signature: | Dave Shaffer | 8-16-91 | |
| Lab Acceptance By: | | 8/16/91 | 12:25 |

RC

SSU SERVICES

**General Offices**
1000 Color Place
Apopka, FL 32703
(407) 880-0058

December 18, 1991

Ms. Marie Carrasquillo
State of Florida
Department of Environmental Regulation
3319 Maguire Boulevard
Suite 232
Orlando, Florida 32803-3767

**Re: Lake County Water Treatment Plants**

Dear Ms. Carrasquillo:

Enclosed please find results for Fourth Quarter Volatile Organic Analysis for the following systems:

| | |
|---|---|
| Pineywoods/Spring Lake | PWS ID # 3351021 |
| Sunshine Parkway | PWS ID # 3350691 |
| Stone Mountain | PWS ID # 3351282 |
| Quail Ridge | PWS ID # 3354867 |
| Venetian Village | PWS ID # 3351426 |
| Palisades | PWS ID # 3354877 |

Please enter this information into your records.

Sincerely,

Donald B. Corder

Donald B. Corder
Area Supervisor

\csd

cc: Charles Sweat
Frank Sanderson
Jim Murray
Mel Fisher

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU
1000 Color Place
Apopka, FL 32703

Date Reported: Dec 5 1991
PO Number: B91039

PO Number SSU
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: COMP. SAMPLE
Date Received: Nov26 1991

Lab Number : 18375

REPORT OF ANALYSIS

Sunshine Parkway

18375

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 98.9 | 1.94 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 88.4 | 4.88 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 96.0 | 3.17 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 96.0 | 3.17 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 95.8 | 6.51 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 88.4 | 3.79 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 90.4 | 2.46 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 89.3 | 9.95 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 86.0 | 5.13 | <0.001 |
| Benzene | mg/L | 0.001 | 94.1 | 1.78 | <0.001 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



Jefferson S. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984
FAX (407) 260-0110

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 3350691
Public Water System Name Sunshine Parkway
Public Water System Type (check one):
(X)Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyzed: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable___;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number 18375
Sample Location (be specific): Plant - #1 & #2 Wells
Sample Type (check all applicable):
( )Check ( )Regular Distribution (X)Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
(X)Raw (X)Well ( )Resample
( )Special
Sampler Name, Title Phone: Brian Heath - Lead Operator - 780-0058

**ANALYSIS INFORMATION**
Extraction Date ___/___/___
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTED: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable___;

I do HEREBY CERTIFY that all data submitted are correct.

Signature: _____

Name **Dr. Jefferson S Flowers**

Title **Technical Director**

Laboratory **Flowers Chemical Laboratories,Inc.**

Date 12/4/91

Mail Results to the
Appropriate DER or ACPHU Office:

_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 06/01/8 () Satisfactory () Unsatisfactory

Volatile Organic Analysis
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 18375 | .00002 | <.000005 | EPA504.1 | .000005 | 12/4/91 |
| 2969 | Para-dichlorobenzene | 18375 | .075 | ≤0.001 | EPA502.2 | 0.001 | 11/27/91 |
| 2976 | Vinyl chloride | 18375 | 0.001 | <0.001 | EPA502.2 | 0.001 | 11/27/91 |
| 2977 | 1,1-dichloroethene | 18375 | 0.007 | <0.001 | EPA502.2 | 0.001 | 11/27/91 |
| 2980 | 1,2-dichloroethane | 18375 | 0.003 | <0.001 | EPA502.2 | 0.001 | 11/27/91 |
| 2981 | 1,1,1-trichloroethane | 18375 | 0.2 | <0.001 | EPA502.2 | 0.001 | 11/27/91 |
| 2982 | Carbon tetrachloride | 18375 | 0.003 | <0.001 | EPA502.2 | 0.001 | 11/27/91 |
| 2984 | Trichloroethene | 18375 | 0.003 | <0.001 | EPA502.2 | 0.001 | 11/27/91 |
| 2987 | Tetrachloroethene | 18375 | 0.003 | <0.001 | EPA502.2 | 0.001 | 11/27/91 |
| 2990 | Benzene | 18375 | 0.001 | <0.001 | EPA502.2 | 0.001 | 11/27/91 |

Comments:

FLOWERS

CHEMICAL LABORATORIES

FCEL Lab
FCHHS Lab
NCDEHNR Lab 284
SCDHEC Lab

ANALYTICAL & CONSULTING CHEMISTS
CHAIN OF CUSTODY RECORD
DRINKING WATER 17-250

(1)Client: Southern States
(2)Address: LLC CC107 FL. Orlando 32705
(3)Phone: 880-CC58 ext 1418
(4)Public Drinking Water ID #:
(5)Public Water System Name:
(6)Project #: MPO# 571 C 34
(8)Public Water System Type: ( ) Community ( ) Non-Community ( ) Special Non-Community

| | Preservative | | Plastic Containers | | | | | | Glass Containers | | | | | | NOTES: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | HNO3 | ZnOAC&NaOH | 60ml | 125ml | 250ml | 500ml | 1L | Whirl-Pac Bag | 40 ml | 250ml | 500ml | 1L | 2L | 4L | (12)Turn Around Time: 10 Working Days: 5 Working Days : 3 Working Days : 1 Working Day : Other : |
| (16) | | | | | | | | | | | | | | | 2- Sunshine Parkway 2- Ringwoods Spring St. manor - Stone Mountain (please comp.) |

(17)Kit Relinquished: (17)Date (17)Time
(9)Kit Received (9)Date (9)Time

(10)Parameter Group(s) Analyzed: Turbidity__; Inorganic__; Trihalomethane__; Volatile Organic X; Organic Chemical__; Secondary Chemical__; Radiological__; Unregulated Organic Purgeable__; Unregulated Organic Pesticide : Unregulated Base Neutral Extractable : Unregulated Acid Extractable :

| (18)Laboratory Number | | (11)Client Sample Identification |
|---|---|---|
| | #1 | 553 W#1 - Pinney Woods |
| | #2 | 553 W#2 - Pinney Woods |
| 18375 | #3 | 554 W#1 - Sunshine Pkwy |
| | #4 | 554 W#2 - Sunshine Pkwy |
| | #5 | 555 W#1 - Stone Mtn |
| | #6 | |
| | #7 | |
| | #8 | |
| | #9 | |
| | #10 | |

| | | Date | Time |
|---|---|---|---|
| (13)Collectors Signature: | Brian Heath | 11/26/91 | 10:00am |
| (14)Transporters Signature: | John D. Hayward | 11-26-91 | 5:00 p.m. |
| (15)Lab Acceptance By: | M. McCoy | 11/26/91 | 1:30pm. |

Over for numbered instructions.

HRS

State of Florida
Department of Health and Rehabilitative Services
Office of Laboratory Services
P.O. Box 210
Jacksonville, Florida 32231

RECEIVING LABORATORY USE ONLY

12/12

# DRINKING WATER
# BACTERIOLOGICAL ANALYSIS

SYSTEM NAME: SunShine Pkys #560 SYSTEM I.D. NO: 3350691 SYSTEM PHONE #: 800-432-4501

ADDRESS: US 27 DER DISTRICT: Central

COLLECTOR: John Haversack COLLECTOR PHONE #: 800-432-4501

SAMPLE SITE (Locality or Subdivision): SunShine Pkys

DATE AND TIME COLLECTED: 12-11-91 - 10:30 am

TYPE OF SUPPLY(Circle one): (Community water system) Noncommunity water system (Nontransient — noncommunity water system)
Private well Swimming pool Bottled water

TYPE OF SAMPLE(Circle one): (Compliance) Repeat Replacement Main clearance Well survey Other _____
(Check Box) (Check Box) (Specify)
[ ] Distribution [ ] TNTC or
[ ] Raw [ ] Turbid

REMARKS:

12/16

| TO BE COMPLETED BY COLLECTOR OF SAMPLE | | | | TO BE COMPLETED BY LAB | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ANALYSIS METHOD: MF MTF | | | MMO-MUG | | PA |
| COLL. NO. | SAMPLE POINT (Specific Address) | CL RES'D | pH | SAMPLE NUMBER | COLIFORM | TOTAL | CONFIRM TOTAL | CONFIRM FECAL |
| W-1 | Well # | 0.0 | | | A | P(2) | P | A |
| W-2 | Well | 0.0 | | | A | | | |
| T | Tank | 1.0 | | | A | | | |
| R-1 | 20354 US Hwy 27 | 0.9 | | | A | | | |
| R-2 | 20339 US Hwy 27 | 0.9 | | | A | | | |
| | | | | | | | | |
| | | | | | | | | |

* Results in this column are preliminary. Fecal coliform confirmation on community and noncommunity water systems and total coliform confirmation on all types of water systems will follow in 24-48 hours.

P - Coliforms are present C - Confluent growth TA - Turbid, Absence of gas or acid
A - Coliforms are absent TNTC - Too numerous to count

INTERPRETATIONS-REMARKS BY PROGRAM REVIEWER

NAME AND MAILING ADDRESS OF PERSON/FIRM TO RECEIVE REPORT

SSU Services.
1000 Color Place
Apopka, Fla 32703

( )
(x) SATISFACTORY
( ) INCOMPLETE COLLECTION INFORMATION
W-1 Well → (x) REPEAT SAMPLES
( ) REPLACEMENT SAMPLES

REVIEWING OFFICIAL: _____

TITLE: DER

# PLANT TECHNICIANS LABORATORY

P.O. Box 447 Fruitland Pk, FL 34731

LAB: 904/787-6689
ADMIN: 904/787-2944
No. 8737

Certified Plant Operators • Consultation • Water and Wastewater Testing

| DATE COLLECTED | TIME | COUNTY | COLLECTOR | TIME REC'D | DATE TESTED |
|---|---|---|---|---|---|
| 12/18/91 | 3 PM | Lake | Lance Streffler | 4 PM | 12/19/91 |

| TYPE OF SUPPLY | CITY-TOWN | S/D | TRLR PK | RLV | SCHOOL | BOTTLED | MOTEL | REST | DAIRY | POOL | HOME | OTHER |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | |

NAME OF S/D OR LOCALITY BEING SAMPLED: Sunshine Parkway #560

NAME OR LOCATION OF WATER PLANT: Hwy 19 & 27

| TYPE OF SAMPLE | ROUTINE | RE-CHECK | MAIN CLEARANCE | WELL SURVEY | OTHER |
|---|---|---|---|---|---|
| | | X | | | |

LAB: PLANT TECHNICIANS, INC. HRS # 83289

SYSTEM I.D. No. 3350691 NTNC

NAME AND MAILING ADDRESS OF PERSON/FIRM TO RECEIVE REPORT

S.S.U.SErvices
1000 Color Place
Apopka, FL 32703

LAB REMARKS & SIGNATURE
Sample collected by client.

J.C. BRANHAM PRES./DIRECTOR

| LAB. NO. | COLL. NO. | SAMPLING POINT | APPEARANCE | CL RES'D | PH | LB 48 | SB 48 | MPN 100 MLS | MF 100 MLS | NON-COLIFORM |
|---|---|---|---|---|---|---|---|---|---|---|
| 91-12398 | W | Well | CL | 0.0 | | | | | A | A |

## WATER ANALYSIS PERFORMED

TOTAL COLIFORM

INTERPRETATIONS-RECOMMENDATIONS

D.E.R. USE ONLY
P-Coliforms are present
A-Coliforms are absent
C-Confluent growth
TNTC-Too numerous to count
TA-Turbid, Absence of gas or acid

AT TIME SAMPLE TAKEN:
☒ SATISFACTORY
☐ UNSATISFACTORY
☐

☐ RE-SUBMIT

PS870623

BY NAME _____ TITLE DER

# Tropical Park - 781

**Osceola County (SSU)**

**Water**

**- 1992 FPSC Filing -**

# Tropical Park

## Chemical Analyses

The most recent chemical analyses for the water system conducted by a certified laboratory covering the inorganic, organic, turbidity, microbiological, radionuclide, secondary and unregulated contaminants.

| Chemical Analysis | Date Taken |
|---|---|
| Inorganic | #1) 5/91 #2) 3/91 |
| Organic | #1) 5/91 #2) 3/91 |
| Volatile Organic Chemicals | 3/91 |
| | 6/91 |
| | 9/91 |
| | 12/91 |
| Turbidity | #1) 5/91 #2) 3/91 |
| Microbiological | 12/91 |
| Radionuclide | 3/91 |
| Secondary Contaminants | #1) 5/91 #2) 3/91 |
| Unregulated Contaminants | 3/91 |

#1 - Plant # 1
#2 - Plant # 2

SSU
SERVICES

**General Offices**
1000 Color Place
Apopka, FL 32703
(407) 880-0058

April 23, 1991

Ms. Marie Carrasquillo
State of Florida
Department of Environmental Regulation
3319 Maguire Boulevard
Suite 232
Orlando, Florida 32807-3767

Re; Safe Drinking Water Compliance Analysis
for Tropical Park ID #3491958

Dear Ms. Carrasquillo,

Please find enclosed for your records, Primary Organics, Inorganics, Secondary Contaminants, Turbidity and Gross Alpha analysis for the Tropical Park distribution system from Plant #2.

We have noted that the M.C.L. for Manganese was exceeded in the initial analysis and resampling has been scheduled and will be resubmitted on completion.

Your cooperation and assistance as always, is greatly appreciated.

Sincerely,

SSU Services

Sam Sparks
Division Supervisor

SS/jlm

cc: Charles Sweat
Mel Fisher
Clara Dozier
Osceola County
Ralph Terrero
File

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Apr19 1991
PO Number: 22372
PO Number Tropical Park
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WATER SAMPLE
Date Received: Mar27 1991 Lab Number : 16555

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16555 |
|---|---|---|---|---|---|
| Turbidity | NTU | 0.05 | 100 | .000 | 0.38 |
| Arsenic | mg/L | 0.0005 | 107 | 2.11 | <0.0005 |
| Barium | mg/L | 0.01 | 105 | 2.11 | 0.25 |
| Cadmium | mg/L | 0.001 | 99.9 | .263 | 0.005 |
| Chromium | mg/L | 0.005 | 107 | .364 | 0.007 |
| Fluoride | mg/L | 0.05 | 104 | 1.56 | 0.0878 |
| Lead | mg/L | 0.001 | 94.0 | 10.8 | 0.0074 |
| Mercury | mg/L | 0.0002 | 102 | 4.05 | <0.0002 |
| Nitrate(as N) | mg/L | 0.01 | 142 | 2.47 | 0.0376 |
| Selenium | mg/L | 0.0005 | 94.6 | 3.65 | <0.0005 |
| Silver | mg/L | 0.005 | 102 | .788 | <0.005 |
| Sodium | mg/L | 0.002 | 105 | 1.01 | 0.206 |
| Endrin | mg/L | 0.000001 | 99.6 | 3.41 | <0.000001 |
| Lindane | mg/L | 0.000001 | 98.4 | 2.59 | <0.000001 |
| Methoxychlor | mg/L | 0.00001 | 104 | 6.15 | <0.00001 |
| Toxaphene | mg/L | 0.0001 | 106 | .935 | <0.0001 |
| 2,4-D | mg/L | 0.00005 | 113 | 6.59 | <0.00005 |
| 2,4,5-TP(Silvex) | mg/L | 0.00002 | 111 | 2.87 | <0.00002 |
| Calcium | mg/L | 0.1 | 106 | .362 | 53.2 |
| Chloride | mg/L | 0.015 | 101 | 2.47 | 9.96 |
| Carbonate_CaCO3 | mg/L | 0.1 | | | <0.1 |
| Hydroxide_CaCO3 | mg/L | 0.1 | | | <0.1 |
| Copper | mg/L | 0.005 | 105 | .413 | 0.01 |
| Bicarbonate _CaCO3 | mg/L | 0.1 | | | <0.1 |
| Carbonate_Alkalinity | mg/L | 0.1 | | | <0.1 |
| Hydrogen_Sulfide | mg/L | 0.5 | | | - |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984
FAX (407) 260-6110

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Apr19 1991
PO Number: 22372
PO Number Tropical Park
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WATER SAMPLE
Date Received: Mar27 1991 Lab Number : 16555

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16555 | |
|---|---|---|---|---|---|---|
| Iron | mg/L | 0.01 | 101 | .433 | 0.127 | |
| Magnesium | mg/L | 0.01 | 108 | .722 | 6.05 | |
| Manganese | mg/L | 0.005 | 103 | .728 | 0.065 | ✓ |
| Sulfate | mg/L | 0.2 | 91.5 | 2.1 | 2.4 | |
| Zinc | mg/L | 0.001 | 102 | 1.05 | 0.006 | |
| Carbon_Dioxide | mg/L | 0.1 | | | <0.1 | |
| Color | mg/L | 5 | - | .000 | 10 | |
| Total_Hardness | mg/L | 0.1 | | | <0.1 | |
| NCH_as_CaCO3 | mg/L | 0.1 | | | <0.1 | |
| Odor(TON) | TON | 1 | - | - | <1 | |
| Field_pH | pH | 0.01 | | | - | 7.3 |
| Lab_pH | pH | 0.01 | 100 | .316 | 8.12 | |
| Field Conductivity | umhos/c | 0.01 | | | - | 5.0 |
| Total Alkalinity | mg/L | 0.1 | 99.4 | .667 | 134 | |
| TDS | mg/L | 2.5 | 95.3 | 3.77 | 180 | |
| Phenolphthalein Alk. | mg/L | 0.1 | | | - | 24 |
| Field Temp. (C) | oC | 1 | | | <1 | |
| Langelier Index | LX | 0.01 | | | <0.01 | |
| Saturation Index | pHs | 0.01 | | | <0.01 | |
| Stability Index | pH | 0.01 | | | <0.01 | |
| Foaming Agents | mg/L | 0.1 | 99.7 | 1.02 | <0.1 | |
| Field DO | mg/L | 0.1 | | | - | 2.4 |
| Field Chlorine | mg/L | 0.1 | | | - | |
| Gross alpha incl. Ra | pCi/L | 1 | | | 1.4 | |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P O BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984
FAX (407) 260-61[illegible]

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 3491458
Public Water System Name Tropical Park #2 Osceola Co.
Public Water System Type (check one):
(X)Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyzed: Turbidity_X_;Inorganic_X_; Trihalomethane ___;
Volatile Organic___; Organic Chemical_X_; Secondary Chemical_X_; Radiological_X_;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;
Subcontracted Lab Certification Number For Radiological Parameters: HRS82138

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number 16555
Sample Location (be specific): _____
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
( )Raw ( )Well ( )Resample
( )Special_____
Sampler Name, Title Phone:_____
_____

**ANALYSIS INFORMATION**
Extraction Date 4/1/91
Laboratory Contact Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTED: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature: _____

Name **Dr. Jefferson S Flowers**

Title **Technical Director**

Laboratory **Flowers Chemical Laboratories,Inc.**

Date 4/18/91

Mail Results to the Appropriate DER or ACPHU Office:
_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 06/01/8 () Satisfactory () Unsatisfactory

Turbidity Analysis
17-550.310(3)
(PWS026)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(NTU | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 0100 | Turbidity | 16555 | 1 | .380 | EPA180.1 | 0.05 | 4/2/91 |

Comments:

Inorganic Analysis
17-550.310(1)
(PWS030)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1005 | Arsenic | 16555 | 0.05 | <0.0005 | EPA206.3 | 0.0005 | 4/5/91 |
| 1010 | Barium | 16555 | 1 | .250 | EPA208.1 | 0.01 | 4/5/91 |
| 1015 | Cadmium | 16555 | 0.01 | .00500 | EPA213.1 | 0.001 | 4/4/91 |
| 1020 | Chromium | 16555 | 0.05 | .00700 | EPA218.1 | 0.005 | 4/4/91 |
| 1025 | Fluoride | 16555 | 4 | .0878 | EPA340.1 | 0.05 | 3/28/91 |
| 1030 | Lead | 16555 | 0.05 | .00740 | EPA239.2 | 0.001 | 4/8/91 |
| 1035 | Mercury | 16555 | 0.002 | <0.0002 | EPA245.1 | 0.0002 | 4/2/91 |
| 1040 | Nitrate(as N) | 16555 | 10 | .0376 | EPA353.1 | 0.01 | 04-03-91 |
| 1045 | Selenium | 16555 | 0.01 | <0.0005 | EPA270.3 | 0.0005 | 4/5/91 |
| 1050 | Silver | 16555 | 0.05 | <0.005 | EPA272.1 | 0.005 | 4/1/91 |
| 1052 | Sodium | 16555 | 160 | .206 | EPA273.1 | 0.002 | 3/28/91 |

Comments:

Organic Chemical Analysis
17-550.310(2)(a)(b)
(PWS029)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2005 | Endrin | 16555 | 0.0002 | <.000001 | EPA508 | .000001 | 4/1/91 |
| 2010 | Lindane | 16555 | 0.004 | <.000001 | EPA508 | .000001 | 4/1/91 |
| 2015 | Methoxychlor | 16555 | 0.1 | <0.00001 | EPA508 | 0.00001 | 4/3/91 |
| 2020 | Toxaphene | 16555 | 0.005 | <0.0001 | EPA508 | 0.0001 | 4/1/91 |
| 2105 | 2,4-D | 16555 | 0.1 | <0.00005 | EPA515 | 0.00005 | 4/3/91 |
| 2110 | 2,4,5-TP(Silvex) | 16555 | 0.01 | <0.00002 | EPA515 | 0.00002 | 4/3/91 |

Comments:

Secondary Chemical Analysis
17-550.320
(PWS031)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1016 | Calcium | 16555 | | 53.2 | EPA215.1 | 0.1 | 4/4/91 |
| 1017 | Chloride | 16555 | 250 | 9.96 | EPA300.0 | 0.015 | 04-01-91 |
| 1019 | Carbonate CaCO3 | 16555 | | <0.1 | SM314A | 0.1 | 4/4/91 |
| 1021 | Hydroxide CaCO3 | 16555 | | <0.1 | SM406C | 0.1 | 4/4/91 |
| 1022 | Copper | 16555 | 1 | .0100 | EPA220.1 | 0.005 | 4/3/91 |
| 1023 | Bicarbonate CaCO3 | 16555 | | <0.1 | SM406C | 0.1 | 4/4/91 |
| 1026 | Carbonate Alkalinity | 16555 | | <0.1 | SM406C | 0.1 | 4/4/91 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1027 | Hydrogen Sulfide | 16555 | | | EPA376.1 | 0.5 | |
| 1028 | Iron | 16555 | 0.3 | .127 | EPA236.1 | 0.01 | 4/2/91 |
| 1031 | Magnesium | 16555 | | 6.05 | EPA242.1 | 0.01 | 4/4/91 |
| 1032 | Manganese | 16555 | 0.05 | .0650 | EPA243.1 | 0.005 | 3/29/91 |
| 1055 | Sulfate | 16555 | 250 | 2.4 | EPA300.0 | 0.200 | 4/8/91 |
| 1095 | Zinc | 16555 | 5 | .00600 | EPA289.1 | 0.001 | 4/3/91 |
| 1901 | Carbon Dioxide | 16555 | | <0.1 | SM406C | 0.1 | 4/4/91 |
| 1905 | Color | 16555 | 15 | 10.0 | EPA110.1 | 5 | 4/1/91 |
| 1915 | Total Hardness | 16555 | | <0.1 | SM314A | 0.1 | 4/4/91 |
| 1917 | NCH as CaCO3 | 16555 | | <0.1 | SM314A | 0.1 | 4/4/91 |
| 1920 | Odor(TON) | 16555 | 3 | <1 | EPA140.1 | 1 | 4/1/91 |
| 1924 | Field pH | 16555 | 6.5-8.5 | | EPA150.1 | 0.01 | |
| 1925 | Lab pH | 16555 | 6.5-8.5 | 8.12 | EPA150.1 | 0.01 | 4/1/91 |
| 1926 | Field Conductivity | 16555 | | | - | 0.01 | |
| 1927 | Total Alkalinity | 16555 | | 134 | EPA310.1 | 0.1 | 3/29/91 |
| 1930 | TDS | 16555 | 500 | 160 | EPA160.1 | 2.5 | 4/1/91 |
| 1931 | Phenolphthalein Alk. | 16555 | | | EPA310.1 | 0.1 | |
| 1996 | Field Temp. (C) | 16555 | | <1 | - | | 1 4/4/91 |
| 1997 | Langelier Index | 16555 | -0.2:+0.2 | <0.01 | SM203 | 0.01 | 4/4/91 |
| 1998 | Saturation Index | 16555 | | <0.01 | SM203 | 0.01 | 4/4/91 |
| 1999 | Stability Index | 16555 | | <0.01 | SM203 | 0.01 | 4/4/91 |
| 2909 | Foaming Agents | 16555 | 0.5 | <0.1 | EPA425.1 | 0.1 | 4/1/91 |
| 9996 | Field DO | 16555 | | | - | 0.1 | |
| 9997 | Field Chlorine | 16555 | | | - | 0.1 | |

Comments:

Radiological Analysis
17-550.310(5)
(PWS033)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(pCi/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 4000 | Gross alpha incl. Ra & U | 16555 | 5 | 1.4 | EPA900 | 1 | 4/18/91 |

Comments:

FLOWERS
CHEMICAL LABORATORIES INCORPORATED

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS: (407) 339-5984
FAX: (407) 260-6110

# CHAIN OF CUSTODY RECORD

Client: SSU
Address: 1000 Color Place
Apopka, FL 32703
Phone:

FCL Client No.: S033
FCL Project Manager: LAURIE SEBECK
FCL Lab Coordinator: Steve Welsh
Requested Due Date:

P.O. Number: 22373
Project Name / No.: Tropical Park #3191
Contact: SAM SPARKS Plant #78

Sampled By (PRINT): Bill Trendel
Sampler Signature: Bill Trendel
Date Sampled: 3/27/91

| ITEM NO. | SAMPLE DESCRIPTION | TIME | MATRIX | LAB NO. | NO. OF CONTAINERS | PRESERVATIVES: UNPRESERVED | $H_2SO_4$ | $HNO_3$ | HCl | ANALYSES REQUEST: Prim. Trip. Blank | Prim. Org. Spec. | GC/FID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | 16555 | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |

$510.00

| CARRIER | BAILERS | SHIP DATES: OUT / DATE | RETURNED / DATE | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Stephen Nichols | 3-27 | | | 3/27 | 3:10 |

SPECIAL INSTRUCTIONS
TEMP. 77°F
pH 7.3
Conduct. 5.0
D.O. 2.0

SHIP WITH SAMPLES/TO BE RETURNED WITH RESULTS

0846

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU
1000 Color Place
Apopka,FL 32703

Date Reported: May15 1991
PO Number: 22691
PO Number Trop Pk#2
FDHRS Lab# : 83139
FDER Lab# : EB3018
NCDEHNR Lab# : 296
SCDHEC Lab# : 960,?

For: MN
Date Received: May 9 1991 Lab Num: 16863-16865

REPORT OF ANALYSIS

| | Iron mg/L | Magnesium mg/L | Manganese mg/L | Sulfate mg/L |
|---|---|---|---|---|
| Accuracy: | | | 110 | |
| Precision: | | | 1.41 | |
| Det.Limit: | 0.01 | 0.01 | 0.005 | 0.2 |
| Client ID<br>Lab Number | | | | |
| 1<br>16863 | - | - | 0.511 | - |
| 2<br>16864 | - | - | 0.461 | - |
| 3<br>16865 | - | - | 0.074 | - |

Data Release Authorization
Data generated and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FDLR QA and EPA approved methods only.

Andrew Harrison
Laboratory Manager



Jefferson L. Flowers, Ph.D.
Johnson S. Flowers, Ph.D.
481 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984
FAX (407) 260-6110

S S U
SERVICES

**General Offices**
1000 Color Place
Apopka, FL 32703
(407) 880-0058

June 12, 1991

Ms. Marie Carrasquillo
State of Florida
Department of Environmental Regulation
3319 Maguire Boulevard
Suite 232
Orlando, Florida 32803-3767

Re: Re-sample for Drinking Water Analysis

This letter is in response to a telephone conversation with Barbara Browning, Department of Environmental Regulation in Orlando this date. I am enclosing per her request, re-sample analysis which exceeded the MCL for the following systems:

Suncrest ID #8431413 - Manganese

Chuluota ID #3590186 - Turbidity & Manganese

Tropical Park #2 ID #3491958 - Manganese

Pine Ridge ID #3494292 - Manganese & Iron

Bay Lake Estates ID #3490090 - Manganese

Should you require any further information, please do not hesitate to contact me.

Your continued cooperation is greatly appreciated.

Sincerely,

SSU Services

Sam Sparks
Division Supervisor

cc: Charles Sweat
Clara Dozier
Mel Fisher
File

## PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 3491958
Public Water System Name: Tropical Park #2
Public Water System Type (check one):
( )Community ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyzed: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical_X_; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number: 16863
Sample Location (be specific): _____
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composite
( )Clearance ( )Maximum Residence Time ( )Plant Tap
( )Raw ( )Well ( )Resample
( )Special_____
Sampler Name, Title Phone:_____
_____

**ANALYSIS INFORMATION**
Extraction ___/___/____
Laboratory Dr. J.S. Flowers
Resample Requested? (check one): ()Yes (X) No
ANALYSIS SUBMITTED: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature:_____

Name **Andrew B. Harrison**

Title **Laboratory Manager**

Laboratory **Flowers Chemical Laboratories,Inc.**

Date 5/16/91

Mail Results to the Appropriate DER or ACPHU Office:

_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 0 () Satisfactory () Unsatisfactory

Secondary Chemical Analysis
17-550.320
(PWS031)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1016 | Calcium | 16863 | | | EPA215.1 | 0.1 | |
| 1017 | Chloride | 16863 | 250 | | EPA300.0 | 0.015 | |
| 1019 | Carbonate CaCO3 | 16863 | | | SM314A | 0.1 | |
| 1021 | Hydroxide CaCO3 | 16863 | | | SM406C | 0.1 | |
| 1022 | Copper | 16863 | 1 | | EPA220.1 | 0.005 | |
| 1023 | Bicarbonate CaCO3 | 16863 | | | SM406C | 0.1 | |
| 1026 | Carbonate Alkalinity | 16863 | | | SM406C | 0.1 | |
| 1027 | Hydrogen Sulfide | 16863 | | | EPA376.1 | 0.5 | |
| 1028 | Iron | 16863 | 0.3 | | EPA236.1 | 0.01 | |
| 1031 | Magnesium | 16863 | | | EPA242.1 | 0.01 | |
| 1032 | Manganese | 16863 | 0.05 | .511 | EPA243.1 | 0.005 | 5/15/91 |
| 1055 | Sulfate | 16863 | 250 | | EPA300.0 | 0.200 | |
| 1095 | Zinc | 16863 | 5 | | EPA289.1 | 0.001 | |
| 1901 | Carbon Dioxide | 16863 | | | SM406C | 0.1 | |
| 1905 | Color | 16863 | 15 | | EPA110.1 | 5 | |
| 1915 | Total Hardness | 16863 | | | SM314A | 0.1 | |
| 1917 | NCH as CaCO3 | 16863 | | | SM314A | 0.1 | |
| 1920 | Odor(TON) | 16863 | 3 | | EPA140.1 | 1 | |
| 1924 | Field pH | 16863 | 6.5-8.5 | | EPA150.1 | 0.01 | |
| 1925 | Lab pH | 16863 | 6.5-8.5 | | EPA150.1 | 0.01 | |
| 1926 | Field Conductivity | 16863 | | | - | 0.01 | |
| 1927 | Total Alkalinity | 16863 | | | EPA310.1 | 0.1 | |
| 1930 | TDS | 16863 | 500 | | EPA160.1 | 2.5 | |
| 1931 | Phenolphthalein Alk. | 16863 | | | EPA310.1 | 0.1 | |
| 1996 | Field Temp. (C) | 16863 | | | - | | 1 |
| 1997 | Langelier Index | 16863 | -0.2:+0.2 | | SM203 | 0.01 | |
| 1998 | Saturation Index | 16863 | | | SM203 | 0.01 | |
| 1999 | Stability Index | 16863 | | | SM203 | 0.01 | |
| 2909 | Foaming Agents | 16863 | 0.5 | | EPA425.1 | 0.1 | |
| 9996 | Field DO | 16863 | | | - | 0.1 | |
| 9997 | Field Chlorine | 16863 | | | - | 0.1 | |

Comments:

Secondary Chemical Analysis
17-550.320
(PWS031)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1016 | Calcium | 16864 | | | EPA215.1 | 0.1 | |
| 1017 | Chloride | 16864 | 250 | | EPA300.0 | 0.015 | |
| 1019 | Carbonate CaCO3 | 16864 | | | SM314A | 0.1 | |
| 1021 | Hydroxide CaCO3 | 16864 | | | SM406C | 0.1 | |
| 1022 | Copper | 16864 | 1 | | EPA220.1 | 0.005 | |
| 1023 | Bicarbonate CaCO3 | 16864 | | | SM406C | 0.1 | |
| 1026 | Carbonate Alkalinity | 16864 | | | SM406C | 0.1 | |
| 1027 | Hydrogen Sulfide | 16864 | | | EPA376.1 | 0.5 | |
| 1028 | Iron | 16864 | 0.3 | | EPA236.1 | 0.01 | |
| 1031 | Magnesium | 16864 | | | EPA242.1 | 0.01 | |
| 1032 | Manganese | 16864 | 0.05 | .461 | EPA243.1 | 0.005 | 5/15/91 |
| 1055 | Sulfate | 16864 | 250 | | EPA300.0 | 0.200 | |
| 1095 | Zinc | 16864 | 5 | | EPA289.1 | 0.001 | |
| 1901 | Carbon Dioxide | 16864 | | | SM406C | 0.1 | |
| 1905 | Color | 16864 | 15 | | EPA110.1 | 5 | |
| 1915 | Total Hardness | 16864 | | | SM314A | 0.1 | |
| 1917 | NCH as CaCO3 | 16864 | | | SM314A | 0.1 | |
| 1920 | Odor(TON) | 16864 | 3 | | EPA140.1 | 1 | |
| 1924 | Field pH | 16864 | 6.5-8.5 | | EPA150.1 | 0.01 | |
| 1925 | Lab pH | 16864 | 6.5-8.5 | | EPA150.1 | 0.01 | |
| 1926 | Field Conductivity | 16864 | | | - | 0.01 | |
| 1927 | Total Alkalinity | 16864 | | | EPA310.1 | 0.1 | |
| 1930 | TDS | 16864 | 500 | | EPA160.1 | 2.5 | |
| 1931 | Phenolphthalein Alk. | 16864 | | | EPA310.1 | 0.1 | |
| 1996 | Field Temp. (C) | 16864 | | | - | | 1 |
| 1997 | Langelier Index | 16864 | -0.2:+0.2 | | SM203 | 0.01 | |
| 1998 | Saturation Index | 16864 | | | SM203 | 0.01 | |
| 1999 | Stability Index | 16864 | | | SM203 | 0.01 | |
| 2909 | Foaming Agents | 16864 | 0.5 | | EPA425.1 | 0.1 | |
| 9996 | Field DO | 16864 | | | - | 0.1 | |
| 9997 | Field Chlorine | 16864 | | | - | 0.1 | |

Comments:

Secondary Chemical Analysis
17-550.320
(PWS031)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1016 | Calcium | 16865 | | | EPA215.1 | 0.1 | |
| 1017 | Chloride | 16865 | 250 | | EPA300.0 | 0.015 | |
| 1019 | Carbonate CaCO3 | 16865 | | | SM314A | 0.1 | |
| 1021 | Hydroxide CaCO3 | 16865 | | | SM406C | 0.1 | |
| 1022 | Copper | 16865 | 1 | | EPA220.1 | 0.005 | |
| 1023 | Bicarbonate CaCO3 | 16865 | | | SM406C | 0.1 | |
| 1026 | Carbonate Alkalinity | 16865 | | | SM406C | 0.1 | |
| 1027 | Hydrogen Sulfide | 16865 | | | EPA376.1 | 0.5 | |
| 1028 | Iron | 16865 | 0.3 | | EPA236.1 | 0.01 | |
| 1031 | Magnesium | 16865 | | | EPA242.1 | 0.01 | |
| 1032 | Manganese | 16865 | 0.05 | .374 | EPA243.1 | 0.005 | 5/15/91 |
| 1055 | Sulfate | 16865 | 250 | | EPA300.0 | 0.200 | |
| 1095 | Zinc | 16865 | 5 | | EPA289.1 | 0.001 | |
| 1901 | Carbon Dioxide | 16865 | | | SM406C | 0.1 | |
| 1905 | Color | 16865 | 15 | | EPA110.1 | 5 | |
| 1915 | Total Hardness | 16865 | | | SM314A | 0.1 | |
| 1917 | NCH as CaCO3 | 16865 | | | SM314A | 0.1 | |
| 1920 | Odor(TON) | 16865 | 3 | | EPA140.1 | 1 | |
| 1924 | Field pH | 16865 | 6.5-8.5 | | EPA150.1 | 0.01 | |
| 1925 | Lab pH | 16865 | 6.5-8.5 | | EPA150.1 | 0.01 | |
| 1926 | Field Conductivity | 16865 | | | - | 0.01 | |
| 1927 | Total Alkalinity | 16865 | | | EPA310.1 | 0.1 | |
| 1930 | TDS | 16865 | 500 | | EPA160.1 | 2.5 | |
| 1931 | Phenolphthalein Alk. | 16865 | | | EPA310.1 | 0.1 | |
| 1996 | Field Temp. (C) | 16865 | | | - | | 1 |
| 1997 | Langelier Index | 16865 | -0.2:+0.2 | | SM203 | 0.01 | |
| 1998 | Saturation Index | 16865 | | | SM203 | 0.01 | |
| 1999 | Stability Index | 16865 | | | SM203 | 0.01 | |
| 2909 | Foaming Agents | 16865 | 0.5 | | EPA425.1 | 0.1 | |
| 9996 | Field DO | 16865 | | | - | 0.1 | |
| 9997 | Field Chlorine | 16865 | | | - | 0.1 | |

Comments:

A-12

CHEMICAL LABORATORIES INCORPORATED

FDER Lab# 830018
FDHRS Lab# 83130
NCDEHNR Lab# 290
SCDHEC Lab# 99018

ANALYTICAL & CONSULTING CHEMISTS
CHAIN OF CUSTODY RECORD
DRINKING WATER 17-550

| (1)Client | (2)Address | (3)Phone |
|---|---|---|
| SSU | 1000 Colonial Blvd | 936 2105 |

(4)Public Drinking Water ID # 3421090 (5)Public Water System Name: Trop. Pk #2

(6)Project # 781 Tropical Pk #2 (8)Public Water System Type

(7)PO# 22691 (X) Community ( ) Non-Community ( ) Special Non-Community

| | | Preservative | | | | Plastic Containers | | | | | | Glass Containers | | | | | | NOTES: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | HNO3 | ZnOAC/NaOH | | | 60ml | 125ml | 250ml | 500ml | 1L | Whirl-Pac Bag | 40ml | 250ml | 500ml | 1L | 2L | 4L | (9)Turn Around Time: |
| 91 | X | X | | | | X | X | | | | | | | | | | | 10 Working Days: |
| | | | | | | | | | | | | | | | | | | 5 Working Days : |
| | | | | | | | | | | | | | | | | | | 3 Working Days : |
| | | | | | | | | | | | | | | | | | | 1 Working Day : |
| | | | | | | | | | | | | | | | | | | Other : |

(10)Kit Relinquished: (10)Date (10)Time (11)Kit Received (11)Date (11)Time

*) SAMPLE INFORMATION; SAMPLE DATE: MONTH_____ DATE_____ YEAR_____
SAMPLE TYPE ( check all applicable); *( ) check, ( ) regular distribution
( ) composite, ( ) clerance, ( ) max residence time, (✓) plant tap,
( ) raw, ( ) well, (✓) resample_____ , ( ) special_____
SAMPLER'S NAME:_____ TITLE:_____ PHONE:_____
SAMPLER'S SIGNATURE:_____
NOTES:
③ MN

(13)Parameter Group(s) Analysed: Turbidity__; Inorganic__; Trihalomethane__; Volitile Organic__;
Organic Chemical__; Secondary Chemical__; Radiological__; Unregulated Organic Purgeable__;
Unregulated Organic Pesticide__; Unregulated Base Neutral Extractable__; Unregulated Acid Extractable__;

| (14)Laboratory Number | (15)Client Sample Identification | | |
|---|---|---|---|
| 16863 | #1 | 5/9/91 | 10:00 |
| 16864 | #2 | 5/9/91 | 10:00 |
| 16865 | #3 | 5/9/91 | 7:30 |
| | #4 | | |
| | #5 | | |
| | #6 | | |
| | #7 | | |
| | #8 | | |
| | #9 | | |
| | #10 | | |

| | | Date | Time |
|---|---|---|---|
| (16)Collectors Signature: | | | |
| (17)Transporters Signature: | | 5/9/91 | |
| (19)Lab Acceptance By: | | 5/9/91 | 1150 |

(OVER FOR INSTRUCTIONS FOR COMPLETION)

SSU SERVICES

**General Offices**
1000 Color Place
Apopka, FL 32703
(407) 880-0058

January 2, 1992

Mr. Marie Carrasquillo
State of Florida
Department of Environmental Regulation
3319 Maguire Boulevard
Suite 232
Orlando, Florida 32803-3767

**Re: Manganese Resamples / Tropical Park / Osceola County**
**PWS ID # 3491958**

Dear Ms. Carrisquillo:

Please find enclosed for your records three resample analyses for Manganese for the Tropical Park water system.

Your cooperation and assistance is very much appreciated.

Sincerely,

Sam Sparks,
Area Supervisor

\csd

cc: Jim Ragsdale
Frank Sanderson
Mel Fisher
Jim Murray
Osceola County Health Department w/attachments

ORLANDO LABORATORIES INC.

P.O. Box 149127 • Orlando, Florida 32814 • (407) 896-6645

REPORT OF ANALYSIS

Southern States Utilities
1000 Color Place
Apopka, FL 32703

Attn: Sam Sparks

Work Order # : 91-12-214
Date Received: 12/13/91
Date Reported: 12/19/91
OLI Contact: J_BEATO

Work ID: Tropical Park
Samples collected by: Client
Total Samples: 3

| SAMPLE IDENTIFICATION | TEST CODES and NAMES used on this report |
|---|---|
| 01 1 | MN_ICP Manganese |
| 02 2 | |
| 03 3 | |

OLI Florida Department of Health & Rehabilitative Service Identification Numbers are: Drinking Water Certification Number 82141, Environmental Certification Number E83033

Respectfully Submitted,
ORLANDO LABORATORIES, INC.

for John Hobbs
LABORATORY DIRECTOR

Eric Malarek
QUALITY CONTROL

*The Analytical Specialists*

JD LABORATORIES,INC. REPORT OF ANALYSIS Work Order # 91-12-214
Client ID: [illegible] Results by Sample

SAMPLE ID 1 SAMPLE # 01A
DATE COLLECTED 12/11/91 09:00:00 MATRIX WATER

MN_ICP <0.030 mg/l

SAMPLE ID 2 SAMPLE # 02A
DATE COLLECTED 12/12/91 09:00:00 MATRIX WATER

MN_ICP <0.030 mg/l

SAMPLE ID 3 SAMPLE # 03A
DATE COLLECTED 12/13/91 09:00:00 MATRIX WATER

MN_ICP <0.030 mg/l

Southern States Utilities
Attn: Sam Sparks

Report No: 91-12-214
Page No: 3

QUALITY CONTROL DATA SHEET

| SAMPLE # | PARAMETER | DUPLICATES %(RPD) | SPIKES % RECOVERY | ANALYSIS DATE | ANALYST |
|---|---|---|---|---|---|
| 9112188-11 | Manganese | 1 | 100 | 12/15/91 | TB |

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System ID Number: 3491958
Public Water System Name: Tropical Park
Public Water System Type (check one):
(X) Community ( ) Non-community ( ) Special Non-community

LABORATORY CERTIFICATION INFORMATION
Lab Certification Number: 83141
Parameter Group(s) Analyzed: Manganese

Subcontracted Lab Certification Number (if any): N/A

SAMPLE INFORMATION
Sample Date (MMDDYY): 12/11/91 (1) 12/12/91 (2) 12/13/91 (3)
Laboratory Sample Number: 91-12-214
Sample Location: Entry to distribution
Sample Type (check all applicable):
( ) Check (X) Regular Distribution ( ) Composite
( ) Clearance ( ) Maximum Residence ( ) Plant Tap
( ) Raw ( ) Well (X) Re-sample
( ) Special
Sampler Name, Title, Phone: Bill Trendel & John Coffee
Operator
(407) 880-0058

ANALYSIS INFORMATION
Extraction Date (MMDDYY): NA
Laboratory Contact: Eric Malarek
Re-sample Requested? (check one): ( ) Yes ( ) No
ANALYSIS SUBMITTED: Turbidity__, Inorganic__, Trihalomethane__, Volatile Organic__, Organic Chemical__, Secondary Chemical__, Radiological___, Unregulated Organic Purgeable___, Unregulated Organic Pesticides__, Unregulated Base Neutral Extractable__, Unregulated Acid Extractable__. (Check all analyses which apply).

I do HEARBY CERTIFY that all data submitted is correct.

Signature Eric Malarek
Name Eric Malarek
Title Quality Control Officer
Laboratory Orlando Laboratories, Inc.
Date 12/24/91

Mail Results to the Appropriate DER or ACPHU Office:

DER/ACPHU Reviewing Official

Sample Interpretation (check one)
( ) Satisfactory ( ) Unsatisfactory

0859

**ORLANDO LABORATORIES, INC.**
P.O. Box 149127 Orlando FL 32814
(407) 896-6645 FAX (407) 898-6588

# CHAIN-OF-CUSTODY RECORD
(INSTRUCTIONS ON BACK)

Page ____ of ____

| | | |
|---|---|---|
| 1 INVOICE TO (COMPANY AND INDIVIDUAL) / ADDRESS (CITY STATE ZIP): SSLI Services 1000 Colorplace Apopka 32703 | 2 CONTACT PERSON PHONE # INVOICE: 880 0058 Sam Sparks | 3 OLI WORK ORDER # (LAB USE): 911221 |
| 4 ORIGINAL REPORT TO (COMPANY AND INDIVIDUAL) / ADDRESS (CITY STATE ZIP) | 5 CONTACT PERSON PHONE # REPORT | 6 RB NUMBER (LAB USE): 5955 |
| 7 (OPTIONAL) ADDITIONAL REPORTS SENT TO / ADDRESS (CITY STATE ZIP) | | |
| 8 CLIENT PROJECT NAME: Tropical Pack | 9 CLIENT PROJECT # | |

| 10 SAMPLE IDENTIFICATION | 11 DATE-TIME | 12 COMP | GRAB | WATER | SOIL | OTHER | 13 SAMPLE DESCRIPTION | NUMBER OF CONTAINERS | 18 REQUESTED ANALYSIS: Hardness | REMARKS 19 |
|---|---|---|---|---|---|---|---|---|---|---|
| 1) 12/11 | 9:00 | | / | | | | Entry to distribution | | ✓ | |
| 2) 12/12 | 9:00 | | / | | | | " | | ✓ | |
| 3) 12/13 | 9:00 | | / | | | | " | | ✓ | |

| TRANSFER NUMBER | 14 RELINQUISHED BY | 15 DATE/TIME | 16 ACCEPTED BY |
|---|---|---|---|
| 1st | [signature] | 12/11 1135 | |
| 2nd | William Sardel | 12/12 4:15 | [signature] |
| 3rd | [signature] | 12/13/94 1105 | Ruth Hemsted |

20 ADDITIONAL REMARKS

21 COOLER #'s

22 William Sardel
SAMPLER'S SIGNATURE

ORIGINAL - LAB
YELLOW - FILE
PINK - CLIENT

SSU SERVICES

**General Offices**
1000 Color Place
Apopka, FL 32703
(407) 880-0058

June 4, 1991

Ms. Marie Carrasquillo
State of Florida
Department of Environmental Regulation
3319 Maguire Boulevard
Suite 232
Orlando, Florida 32803-3767

Re: Tropical Park ID #3491958

Dear Ms. Carrasquillo,

Please find enclosed for your records, Primary Organics, Inorganics, Secondary Contaminants and Turbidity for the Tropical Park distribution system from plant #1.

Your cooperation and assistance as always, is greatly appreciated.

Sincerely,

SSU Services

Sam Sparks
Division Supervisor

SS/jlm

cc: Charles Sweat
Mel Fisher
Osceola County
Clara Dozier
File

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
1000 Color PLace
Apopka,FL 32703

Date Reported: May27 1991
PO Number: 22691
PO Number Trop Pk#1
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 1
Date Received: May 9 1991 Lab Number : 16872

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16872 |
|---|---|---|---|---|---|
| Turbidity | NTU | 0.05 | 95.0 | .000 | 0.21 |
| Arsenic | mg/L | 0.0005 | 97.2 | 2.48 | <0.0005 |
| Barium | mg/L | 0.01 | 112 | 9.14 | <0.01 |
| Cadmium | mg/L | 0.001 | 105 | .924 | <0.001 |
| Chromium | mg/L | 0.005 | 113 | 1.40 | <0.005 |
| Fluoride | mg/L | 0.05 | 97.3 | .291 | 0.153 |
| Lead | mg/L | 0.001 | 115 | 1.53 | 0.0059 |
| Mercury | mg/L | 0.0002 | 100 | 11.1 | 0.0005 |
| Nitrate(as N) | mg/L | 0.01 | 94.0 | 13.8 | 0.0724 |
| Selenium | mg/L | 0.0005 | 99.2 | 7.18 | <0.0005 |
| Silver | mg/L | 0.005 | 99.7 | .892 | <0.005 |
| Sodium | mg/L | 0.002 | 112 | .000 | 9.2 |
| Endrin | mg/L | 0.000001 | 101 | 1.12 | <0.000001 |
| Lindane | mg/L | 0.000001 | 99.2 | 3.71 | <0.000001 |
| Methoxychlor | mg/L | 0.00001 | 93.0 | 9.12 | <0.00001 |
| Toxaphene | mg/L | 0.0001 | 104 | 1.91 | <0.0001 |
| 2,4-D | mg/L | 0.00005 | 94.0 | 9.78 | <0.00005 |
| 2,4,5-TP(Silvex) | mg/L | 0.00002 | 110 | 3.53 | <0.00002 |
| Calcium | mg/L | 0.1 | 99.5 | .850 | 42.3 |
| Chloride | mg/L | 0.015 | 100 | .656 | 12 |
| Carbonate_CaCO3 | mg/L | 0.1 | | | 129.5 |
| Hydroxide_CaCO3 | mg/L | 0.1 | | | - |
| Copper | mg/L | 0.005 | 101 | .217 | 0.196 |
| Bicarbonate _CaCO3 | mg/L | 0.1 | | | 131.9 |
| Carbonate_Alkalinity | mg/L | 0.1 | | | 0.2 |
| Hydrogen_Sulfide | mg/L | 0.5 | | | - |

Data Release Authorization

Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director

Page 1 :

Jefferson L Flowers, Ph.D.
Jefferson S Flowers, Ph.D.
481 NEWBURYPORT
P O BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984
FAX (407) 260-6110

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
1000 Color PLace
Apopka,FL 32703

Date Reported: May27 1991
PO Number: 22691
PO Number Trop Pk#1
FDHRS Lab# : 83139
FDER Lab# : EB3018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 1
Date Received: May 9 1991 Lab Number : 16872

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16872 |
|---|---|---|---|---|---|
| Iron | mg/L | 0.01 | 110 | 1.71 | 0.064 |
| Magnesium | mg/L | 0.01 | 105 | .158 | 5.8 |
| Manganese | mg/L | 0.005 | 110 | 1.41 | 0.036 |
| Sulfate | mg/L | 0.2 | 100 | .972 | 2.95 |
| Zinc | mg/L | 0.001 | 106 | 1.30 | <0.001 |
| Carbon_Dioxide | mg/L | 0.1 | | | 14.6 |
| Color | mg/L | 5 | - | .000 | <5 |
| Total_Hardness | mg/L | 0.1 | | | 129.5 |
| NCH_as_CaCO3 | mg/L | 0.1 | | | <0.1 |
| Odor(TON) | TON | 1 | - | - | <1 |
| Field_pH | pH | 0.01 | | | - |
| Lab_pH | pH | 0.01 | 100 | .119 | 7.26 |
| Field Conductivity | umhos/c | 0.01 | | | - |
| Total Alkalinity | mg/L | 0.1 | 108 | .000 | 132 |
| TDS | mg/L | 2.5 | 101 | 1.08 | 163 |
| Phenolphthalein Alk. | mg/L | 0.1 | | | - |
| Field Temp. (C) | oC | 1 | | | 25 |
| Langelier Index | LX | 0.01 | | | -0.44 |
| Saturation Index | pHs | 0.01 | | | 7.7 |
| Stability Index | pH | 0.01 | | | 8.13 |
| Foaming Agents | mg/L | 0.1 | 100 | 1.54 | <0.1 |
| Field DO | mg/L | 0.1 | | | - |
| Field Chlorine | mg/L | 0.1 | | | - |

Data Release Authorization

Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984
FAX (407) 260-6170

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 3491958
Public Water System Name Tropical Park #1
Public Water System Type (check one):
(X)Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyze Turbidity_X_;Inorganic_X_; Trihalomethane ___;
Volatile Organic___; Organic Chemical_X_; Secondary Chemical_X_; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number 16872
Sample Location (be specific): _____
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
( )Raw ( )Well ( )Resample
( )Special_____
Sampler Name, Title Phone:_____
_____

**ANALYSIS INFORMATION**
Extraction Date 5/25/91
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTEL Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature:_____

Name **Dr. Jefferson S Flowers**

Title **Technical Director**

Laboratory **Flowers Chemical Laboratories,Inc.**

Date 5/27/91

Mail Results to the Appropriate DER or ACPHU Office:
_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 06/01/9 () Satisfactory () Unsatisfactory

Turbidity Analysis
17-550.310(3)
(PWS026)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(NTU | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 0100 | Turbidity | 16872 | 1 | .210 | EPA180.1 | 0.05 | 5/15/91 |

Comments:

Inorganic Analysis
17-550.310(1)
(PWS030)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1005 | Arsenic | 16872 | 0.05 | <0.0005 | EPA206.3 | 0.0005 | 5/20/91 |
| 1010 | Barium | 16872 | 1 | <0.1 | EPA208.1 | 0.01 | 5/17/91 |
| 1015 | Cadmium | 16872 | 0.01 | <0.001 | EPA213.1 | 0.001 | 5/17/91 |
| 1020 | Chromium | 16872 | 0.05 | <0.005 | EPA218.1 | 0.005 | 5/17/91 |
| 1025 | Fluoride | 16872 | 4 | .153 | EPA340.1 | 0.05 | 5/20/91 |
| 1030 | Lead | 16872 | 0.05 | .00590 | EPA239.2 | 0.001 | 5/20/91 |
| 1035 | Mercury | 16872 | 0.002 | .000500 | EPA245.1 | 0.0002 | 5/17/91 |
| 1040 | Nitrate(as N) | 16872 | 10 | .0724 | EPA353.1 | 0.01 | 05-15-91 |
| 1045 | Selenium | 16872 | 0.01 | <0.0005 | EPA270.3 | 0.0005 | 5/22/91 |
| 1050 | Silver | 16872 | 0.05 | <0.005 | EPA272.1 | 0.005 | 5/21/91 |
| 1052 | Sodium | 16872 | 160 | 9.20 | EPA273.1 | 0.002 | 5/16/91 |

Comments:

Organic Chemical Analysis
17-550.310(2)(a)(b)
(PWS029)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2005 | Endrin | 16872 | 0.0002 | <.000001 | EPA508 | .000001 | 5/25/91 |
| 2010 | Lindane | 16872 | 0.004 | <.000001 | EPA508 | .000001 | 5/25/91 |
| 2015 | Methoxychlor | 16872 | 0.1 | <0.00001 | EPA508 | 0.00001 | 5/24/91 |
| 2020 | Toxaphene | 16872 | 0.005 | <0.0001 | EPA508 | 0.0001 | 5/25/91 |
| 2105 | 2,4-D | 16872 | 0.1 | <0.00005 | EPA515 | 0.00005 | 5/24/91 |
| 2110 | 2,4,5-TP(Silvex) | 16872 | 0.01 | <0.00002 | EPA515 | 0.00002 | 5/24/91 |

Comments:

Secondary Chemical Analysis
17-550.320
(PWS031)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1016 | Calcium | 16872 | | 42.3 | EPA215.1 | 0.1 | 5/21/91 |
| 1017 | Chloride | 16872 | 250 | 12.0 | EPA300.0 | 0.015 | 05-13-91 |
| 1019 | Carbonate CaCO3 | 16872 | | 129.5 | SM314A | 0.1 | 5/21/91 |
| 1021 | Hydroxide CaCO3 | 16872 | | 0.0 | SM406C | 0.1 | 5/21/91 |
| 1022 | Copper | 16872 | 1 | .196 | EPA220.1 | 0.005 | 5/13/91 |
| 1023 | Bicarbonate CaCO3 | 16872 | | 131.9 | SM406C | 0.1 | 5/21/91 |
| 1026 | Carbonate Alkalinity | 16872 | | 0.2 | SM406C | 0.1 | 5/21/91 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1027 | Hydrogen Sulfide | 16872 | | | EPA376.1 | 0.5 | |
| 1028 | Iron | 16872 | 0.3 | .0640 | EPA236.1 | 0.01 | 5/14/91 |
| 1031 | Magnesium | 16872 | | 5.80 | EPA242.1 | 0.01 | 5/21/91 |
| 1032 | Manganese | 16872 | 0.05 | .0360 | EPA243.1 | 0.005 | 5/15/91 |
| 1055 | Sulfate | 16872 | 250 | 2.95 | EPA300.0 | 0.200 | 5/17/91 |
| 1095 | Zinc | 16872 | 5 | <0.001 | EPA289.1 | 0.001 | 5/20/91 |
| 1901 | Carbon Dioxide | 16872 | | 14.6 | SM406C | 0.1 | 5/21/91 |
| 1905 | Color | 16872 | 15 | <5 | EPA110.1 | 5 | 5/15/91 |
| 1915 | Total Hardness | 16872 | | 129.5 | SM314A | 0.1 | 5/21/91 |
| 1917 | NCH as CaCO3 | 16872 | | <0.1 | SM314A | 0.1 | 5/21/91 |
| 1920 | Odor(TON) | 16872 | 3 | <1 | EPA140.1 | 1 | 5/15/91 |
| 1924 | Field pH | 16872 | 6.5-8.5 | | EPA150.1 | 0.01 | |
| 1925 | Lab pH | 16872 | 6.5-8.5 | 7.26 | EPA150.1 | 0.01 | 5/14/91 |
| 1926 | Field Conductivity | 16872 | | | - | 0.01 | |
| 1927 | Total Alkalinity | 16872 | | 132 | EPA310.1 | 0.1 | 5/10/91 |
| 1930 | TDS | 16872 | 500 | 183 | EPA160.1 | 2.5 | 5/15/91 |
| 1931 | Phenolphthalein Alk. | 16872 | | | EPA310.1 | 0.1 | |
| 1996 | Field Temp. (C) | 16872 | | 25 | - | 1 | 5/21/91 |
| 1997 | Langelier Index | 16872 | -0.2:+0.2 | -0.44 | SM203 | 0.01 | 5/21/91 |
| 1998 | Saturation Index | 16872 | | 7.70 | SM203 | 0.01 | 5/21/91 |
| 1999 | Stability Index | 16872 | | 8.13 | SM203 | 0.01 | 5/21/91 |
| 2909 | Foaming Agents | 16872 | 0.5 | <0.1 | EPA425.1 | 0.1 | 5/20/91 |
| 9996 | Field DO | 16872 | | | - | 0.1 | |
| 9997 | Field Chlorine | 16872 | | | - | 0.1 | |

Comments:

A-1r

CHEMTECH LABORATORIES INCORPORATED

FDER Lab ID#
FDHRS Lab ID#
NCDEHNR Lab #
SCDHEC Lab ID#

**ANALYTICAL & CONSULTING CHEMISTS**
**CHAIN OF CUSTODY RECORD**
**DRINKING WATER 17-550**

| (1)Client | (2)Address | (3)Phone |
|---|---|---|
| SSU | Loco Colorplace Apopka | 880-0100 |

(4)Public Drinking Water ID # 3491353 (5)Public Water System Name: Trop Pk #1

(6)Project # 781 Tropical Park #1 (8)Public Water System Type

(7)PO# 22691 (X) Community ( ) Non-Community ( ) Special Non-Community

| | | Preservative | | | | Plastic Containers | | | | | | Glass Containers | | | | | | NOTES: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | HNO3 | ZnOAC/NaOH | | | 60ml | 125ml | 250ml | 500ml | 1L | Whirl-Pac Bag | 40ml | 250ml | 500ml | 1L | 2L | 4L | (9)Turn Around Time: |
| 9 | 1 | X | | | | | | | X | X | | | | | | X | | 10 Working Days: |
| | 1 | X | | | | | | | | | | | | | | | | 5 Working Days : |
| | 1 | X | | | | | | | | | | | | | | | | 3 Working Day : |
| | | | | | | | | | | | | | | | | | | 1 Working Day : |
| | | | | | | | | | | | | | | | | | | Other : |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |

(10)Kit Relinquished: (10)Date (10)Time (11)Kit Received (11)Date (11)Time

2) SAMPLE INFORMATION; SAMPLE DATE: MONTH_____ DATE_____ YEAR_____
SAMPLE TYPE ( check all applicable); ( ) check, (X) regular distribution
( ) composite, ( ) clearance, ( ) max residence time, (X) plant tap,
( ) raw, ( ) well, ( ) resample_____ , ( ) special_____
SAMPLER'S NAME:_____ TITLE:_____ PHONE:_____
SAMPLER'S SIGNATURE:_____
NOTES:

(1)

(13)Parameter Group(s) Analysed: Turbidity X; Inorganic X; Trihalomethane_; Volatile Organic_;
Organic Chemical X; Secondary Chemical X; Radiological_; Unregulated Organic Purgeable_;
Unregulated Organic Pesticide ; Unregulated Base Neutral Extractable ; Unregulated Acid Extractable ;

| (14)Laboratory Number | (15)Client Sample Identification | | |
|---|---|---|---|
| [redacted] | #1 | 5/9/91 | 9:00 |
| 16872 [redacted] | #2 | 5/9/91 | 9:00 |
| [redacted] | #3 | 5/9/91 | 9:00 |
| | #4 | | |
| | #5 | | |
| | #6 | | |
| | #7 | | |
| | #8 | | |
| | #9 | | |
| | #10 | | |

| | | Date | Time |
|---|---|---|---|
| (16)Collectors Signature: | | | |
| (17)Transporters Signature: | [signature] | 5/10/91 | |
| (19)Lab Acceptance By: | [signature] | 5/9/91 | 1255 |

OVER FOR INSTRUCTIONS FOR COMPLETION

SSU
SERVICES

**General Offices**
1000 Color Place
Apopka, FL 32703
(407) 880-0058

April 24, 1991

Ms. Marie Carrasquillo
State of Florida
Department of Environmental Regulation
3319 Maguire Boulevard
Suite 232
Orlando, Florida 32807-3767

Re: Drinking Water Compliance Analysis
for Tropical Park Water System
ID #3491958

Dear Ms. Carrasquillo,

Please find enclosed for your records, Volatile Organics and Unregulated Contaminant analysis for the Tropical Park water treatment plant, well #1 and #2.

These results are combined analysis with two (2) other Osceola County wells as listed in the analysis report.

Your continued cooperation and assistance as always, is greatly appreciated.

Sincerely,

SSU Services

Sam Sparks
Division Supervisor

SS/jlm

cc: Charles Sweat
Mel Fisher
Clara Dozier
Ralph Terrero
Osceola County
File

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Mar26 1991
PO Number: 391046

PO Number
FDHRS Lab# : 83139
FDER Lab# : EB3018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: Tropical Pk./Bay Lk./Lk.Ajay
Date Received: Mar 4 1991

Lab Number : 16409

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16409 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 115 | 2.45 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 118 | 2.66 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 107 | 2.56 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 107 | 2.56 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 113 | 9.98 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 104 | 2.74 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 104 | 2.13 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 113 | .893 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 113 | .592 | <0.001 |
| Benzene | mg/L | 0.001 | 99.2 | .116 | <0.001 |
| Chloromethane | mg/L | 0.001 | 109 | .669 | <0.001 |
| Dichlorodifluorometh | mg/L | 0.001 | 104 | 2.13 | <0.001 |
| Bromomethane | mg/L | 0.001 | 109 | .669 | <0.001 |
| Chloroethane | mg/L | 0.001 | 107 | 2.56 | <0.001 |
| Trichlorofluorometha | mg/L | 0.001 | 104 | 2.13 | <0.001 |
| trans-1,2-dichloroe | mg/L | 0.001 | 115 | 5.22 | <0.001 |
| cis-1,2-dichloroeth | mg/L | 0.001 | 113 | 11.0 | <0.001 |
| Methyl-tert-butyleth | mg/L | 0.001 | 106 | .005 | <0.001 |
| cis-1,2-dichloroethe | mg/L | 0.001 | 113 | 11.0 | <0.001 |
| Dibromomethane | mg/L | 0.001 | 109 | .669 | <0.001 |
| 1,1-dichloropropene | mg/L | 0.001 | 109 | 4.17 | <0.001 |
| 1,3-dichloropropane | mg/L | 0.001 | 115 | 5.22 | <0.001 |
| 1,2,3-trichloropropa | mg/L | 0.001 | 111 | .868 | <0.001 |
| 2,2-dichloropropane | mg/L | 0.001 | 107 | 2.56 | <0.001 |
| 1,2-dibromo-3-chloro | mg/L | 0.001 | 111 | .868 | <0.001 |
| Chloroform | mg/L | 0.001 | 103 | 3.04 | <0.001 |

Data Release Authorization

Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FDL QA and EPA approved methodology.

Johnson L. Flowers, Ph.D.
Johnson L. Flowers, Ph.D.
481 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
813 407 339-5096

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Mar26 1991
PO Number: 891046

PO Number
FDHRS Lab# : 83139
FDER Lab# : EB3018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: Tropical Pk./Bay LK./LK.Ajay
Date Received: Mar 4 1991

Lab Number : 16409

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16409 |
|---|---|---|---|---|---|
| Bromoform | mg/L | 0.001 | 117 | 7.51 | <0.001 |
| Bromodichloromethane | mg/L | 0.001 | 120 | .984 | <0.001 |
| Dibromochloromethane | mg/L | 0.001 | 115 | 1.16 | <0.001 |
| p-xylene | mg/L | 0.001 | 104 | 3.33 | <0.001 |
| Methylene chloride | mg/L | 0.001 | 109 | .669 | <0.001 |
| o-chlorotoluene | mg/L | 0.001 | 110 | 5.28 | <0.001 |
| p-chlorotoluene | mg/L | 0.001 | 98.1 | 2.92 | <0.001 |
| m-dichlorobenzene | mg/L | 0.001 | 119 | 2.77 | <0.001 |
| o-dichlorobenzene | mg/L | 0.001 | 109 | 4.27 | <0.001 |
| 1,1-dichloroethane | mg/L | 0.001 | 102 | 1.89 | <0.001 |
| trans-1,2-dichloroet | mg/L | 0.001 | 109 | 2.97 | <0.001 |
| 1,2-dichloropropane | mg/L | 0.001 | 109 | .352 | <0.001 |
| 1,1,2-trichloroethan | mg/L | 0.001 | 112 | 11.6 | <0.001 |
| 1,1,1,2-tetrachloroe | mg/L | 0.001 | 114 | 3.52 | <0.001 |
| 1,1,2,2-tetrachloroe | mg/L | 0.001 | 116 | 10.3 | <0.001 |
| Chlorobenzene | mg/L | 0.001 | 105 | 1.53 | <0.001 |
| Toluene | mg/L | 0.001 | 98.1 | 2.92 | <0.001 |
| Ethylbenzene | mg/L | 0.001 | 98.4 | .333 | <0.001 |
| Bromobenzene | mg/L | 0.001 | 105 | 1.53 | <0.001 |
| m-xylene | mg/L | 0.001 | 104 | 3.33 | <0.001 |
| Styrene | mg/L | 0.001 | 98.1 | 2.92 | <0.001 |
| o-xylene | mg/L | 0.001 | 104 | 3.33 | <0.001 |
| Diazinon | mg/L | 0.000001 | 94.8 | 1.87 | <0.000001 |
| Oxamyl (Vydate) | mg/L | 0.002 | 101 | 16.8 | <0.002 |
| Simazine | mg/L | 0.007 | 99.7 | 1.44 | <0.007 |
| Picloram | mg/L | 0.00007 | 103 | 8.97 | <0.00007 |

Data Release Authorization

Sample integrity and reliability certified by Lab personnel prior to analysis. Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson L. Flowers, Ph.D.
Laboratory Director

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5584
FAX (407) 830-8122

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Mar26 1991
PO Number: 891046

PO Number
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: Tropical Pk./Bay Lk./Lk.Ajay
Date Received: Mar 4 1991 Lab Number : 16409

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16409 |
|---|---|---|---|---|---|
| Dinoseb | mg/L | 0.00001 | 118 | 12.0 | <0.00001 |
| Aldicarb sulfoxide | mg/L | 0.002 | 83.9 | .000 | <0.002 |
| Aldicarb sulfone | mg/L | 0.002 | 100 | 15.1 | <0.002 |
| Metolachlor | mg/L | 0.0005 | 104 | 3.42 | <0.0005 |
| Carbofuran | mg/L | 0.001 | 100 | 5.84 | <0.001 |
| Aldicarb | mg/L | 0.002 | 92.0 | 6.71 | <0.002 |
| Atrazine | mg/L | 0.002 | 101 | 1.01 | <0.002 |
| Alachlor (Lasso) | mg/L | 0.0002 | 99.5 | 8.53 | <0.0002 |
| Heptachlor | mg/L | 0.000005 | 99.3 | 2.71 | <0.000005 |
| Aldrin | mg/L | 0.00007 | 110 | 1.02 | <0.00007 |
| Dieldrin | mg/L | 0.00001 | 91.5 | .773 | <0.00001 |
| Dicamba | mg/L | 0.00001 | 101 | 5.24 | <0.00001 |
| Chlordane | mg/L | 0.00001 | 100 | 3.39 | <0.00001 |
| Pentachlorophenol | mg/L | 0.005 | 104 | 2.99 | <0.005 |
| Hexachlorocyclopenta | mg/L | 0.001 | 104 | 7.52 | <0.001 |
| Dioxin | mg/L | 0.00001 | 97.9 | 3.61 | <0.00001 |
| Isophorone | mg/L | 0.001 | 99.8 | 19.3 | <0.001 |
| 2,4-dinitrotoluene | mg/L | 0.001 | 99.0 | .857 | <0.001 |
| Dimethylphthalate | mg/L | 0.001 | 97.2 | .582 | <0.001 |
| Diethylphthalate | mg/L | 0.001 | 97.4 | 11.9 | <0.001 |
| Di-n-butylphthalate | mg/L | 0.001 | 101 | 0.9 | <0.001 |
| Butyl benzyl phthala | mg/L | 0.001 | 96.4 | 3.01 | <0.001 |
| Bis(2-ethylhexyl)pht | mg/L | 0.001 | 101 | 4.32 | <0.001 |
| 1,2,4-trichlorobenze | mg/L | 0.001 | 97.4 | 13.1 | <0.001 |
| PCB_1016 | mg/L | 0.0001 | 97.7 | 2.75 | <0.0001 |
| PCB_1221 | mg/L | 0.0001 | 99.0 | 2.00 | <0.0001 |

Data Release Authorization

Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director

Jefferson S. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Mar26 1991
PO Number: B91046

PO Number
FDHRS Lab# : 83139
FDER Lab# : EB3018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: Tropical Pk./Bay Lk./Lk.Ajay
Date Received: Mar 4 1991
Lab Number : 16409

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16409 |
|---|---|---|---|---|---|
| PCB_1232 | mg/L | 0.0001 | 102 | 2.36 | <0.0001 |
| PCB_1242 | mg/L | 0.0001 | 102 | 2.08 | <0.0001 |
| PCB_1248 | mg/L | 0.0001 | 96.4 | 2.01 | <0.0001 |
| PCB_1254 | mg/L | 0.0001 | 96.6 | 1.76 | <0.0001 |
| PCB_1260 | mg/L | 0.0001 | 101 | .559 | <0.0001 |
| Dioctylphthalate | mg/L | 0.001 | 98.7 | 1.95 | <0.001 |
| 2-chlorophenol | mg/L | 0.001 | 94.0 | 6.62 | <0.001 |
| 2-methyl-4,6-dinitop | mg/L | 0.001 | 99 | 8.69 | <0.001 |
| Phenol | mg/L | 0.001 | 105 | 4.60 | <0.001 |
| 2,4,6-trichlorophenc | mg/L | 0.001 | 91.8 | 7.70 | <0.001 |

Data Release Authorization

Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
681 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
813 407 339-5696

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 3491958
Public Water System Name Tropical Park Osceola Co.
Public Water System Type (check one):
(X)Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyz: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide_X_;
Unregulated Base Neutral Extractable_X_;Unregulated Acid Extractable_X_;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number 16409
Sample Location (be specific): _____
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
( )Raw ( )Well ( )Resample
( )Special_____
Sampler Name, Title Phone:_____
_____

**ANALYSIS INFORMATION**
Extraction Date 3/17/91
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTED Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature:_____

Name Dr. Jefferson S Flowers

Title Technical Director

Laboratory Flowers Chemical Laboratories,Inc.

Date 3/26/91

Mail Results to the
Appropriate DER or ACPHU Office:
_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01
Effective 06/01/( Sample Interpretation (check one):
() Satisfactory () Unsatisfactory

## Volatile Organic Analysis
17-550.310(2)(d)
(PWS029)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 16409 | .00002 | <.000005 | EPA504.1 | .000005 | 3/22/91 |
| 2969 | Para-dichlorobenzene | 16409 | .075 | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2976 | Vinyl chloride | 16409 | 0.001 | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2977 | 1,1-dichloroethene | 16409 | 0.007 | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2980 | 1,2-dichloroethane | 16409 | 0.003 | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2981 | 1,1,1-trichloroethane | 16409 | 0.2 | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2982 | Carbon tetrachloride | 16409 | 0.003 | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2984 | Trichloroethene | 16409 | 0.003 | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2987 | Tetrachloroethene | 16409 | 0.003 | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2990 | Benzene | 16409 | 0.001 | <0.001 | EPA502.2 | 0.001 | 3/17/91 |

Comments:

## Unregulated Organic Purgeable Analysis
17-550.410(1)
(PWS034)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2210 | Chloromethane | 16409 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2212 | Dichlorodifluoromethan | 16409 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2214 | Bromomethane | 16409 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2216 | Chloroethane | 16409 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2218 | Trichlorofluoromethane | 16409 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2224 | trans-1,3,-dichloroprop | 16409 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2228 | cis-1,3-dichloropropene | 16409 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2251 | Methyl-tert-butylether | 16409 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2380 | cis-1,2-dichloroethene | 16409 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2408 | Dibromomethane | 16409 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2410 | 1,1-dichloropropene | 16409 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2412 | 1,3-dichloropropane | 16409 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2414 | 1,2,3-trichloropropane | 16409 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2416 | 2,2-dichloropropane | 16409 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2931 | 1,2-dibromo-3-chloropr | 16409 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2941 | Chloroform | 16409 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2942 | Bromoform | 16409 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2943 | Bromodichloromethane | 16409 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2944 | Dibromochloromethane | 16409 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2962 | p-xylene | 16409 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2964 | Methylene chloride | 16409 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2965 | o-chlorotoluene | 16409 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2966 | p-chlorotoluene | 16409 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2967 | m-dichlorobenzene | 16409 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2968 | o-dichlorobenzene | 16409 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2978 | 1,1-dichloroethane | 16409 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2979 | trans-1,2-dichloroethyl | 16409 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2983 | 1,2-dichloropropane | 16409 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 2985 | 1,1,2-trichloroethane | 16409 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2986 | 1,1,1,2-tetrachloroetha | 16409 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2988 | 1,1,2,2-tetrachloroetha | 16409 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2989 | Chlorobenzene | 16409 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2991 | Toluene | 16409 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2992 | Ethylbenzene | 16409 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2993 | Bromobenzene | 16409 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2995 | m-xylene | 16409 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2996 | Styrene | 16409 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2997 | o-xylene | 16409 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |

Comments:

Unregulated Organic Pesticide Analysis
17-550.410(2)
(PWS035)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2031 | Dalapon | 16409 | | <.000001 | EPA515 | .000001 | 3/18/91 |
| 2036 | Oxamyl (Vydate) | 16409 | | <0.002 | EPA531 | 0.002 | 3/14/91 |
| 2037 | Simazine | 16409 | | <0.007 | EPA505 | 0.007 | 3/18/91 |
| 2040 | Picloram | 16409 | | <0.00007 | EPA515 | 0.00007 | 3/18/91 |
| 2041 | Dinoseb | 16409 | | <0.00001 | EPA515 | 0.00001 | 3/18/91 |
| 2043 | Aldicarb sulfoxide | 16409 | | <0.002 | EPA531 | 0.002 | 3/14/91 |
| 2044 | Aldicarb sulfone | 16409 | | <0.002 | EPA531 | 0.002 | 3/14/91 |
| 2045 | Metolachlor | 16409 | | <0.0005 | EPA505 | 0.0005 | 3/18/91 |
| 2046 | Carbofuran | 16409 | | <0.001 | EPA531 | 0.001 | 3/14/91 |
| 2047 | Aldicarb | 16409 | | <0.002 | EPA531 | 0.002 | 3/14/91 |
| 2050 | Atrazine | 16409 | | <0.002 | EPA505 | 0.002 | 3/18/91 |
| 2051 | Alachlor (Lasso) | 16409 | | <0.0002 | EPA505 | 0.0002 | 3/18/91 |
| 2065 | Heptachlor | 16409 | | <.000005 | EPA508 | .000005 | 3/15/91 |
| 2356 | Aldrin | 16409 | | <0.00007 | EPA508 | 0.00007 | 3/15/91 |
| 2364 | Dieldrin | 16409 | | <0.00001 | EPA508 | 0.00001 | 3/15/91 |
| 2440 | Dicamba | 16409 | | <0.00001 | EPA515 | 0.00001 | 3/15/91 |
| 2959 | Chlordane | 16409 | | <0.00001 | EPA508 | 0.00001 | 3/15/91 |
| 9114 | Pentachlorophenol | 16409 | | <0.005 | EPA515 | 0.005 | 3/15/91 |

Comments:

Unregulated Base Neutral Extractable Analysis
17-550.410(3)
(PWS035)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2042 | Hexachlorocyclopentadie | 16409 | | <0.001 | EPA508 | 0.001 | 3/15/91 |
| 2063 | Dioxin | 16409 | | <0.00001 | EPA613 | 0.00001 | 3/15/91 |
| 2262 | Isophorone | 16409 | | <0.001 | EPA609 | 0.001 | 3/22/91 |
| 2270 | 2,4-dinitrotoluene | 16409 | | <0.001 | EPA609 | 0.001 | 3/22/91 |
| 2282 | Dimethylphthalate | 16409 | | <0.001 | EPA606 | 0.001 | 3/22/91 |
| 2284 | Diethylphthalate | 16409 | | <0.001 | EPA606 | 0.001 | 3/22/91 |
| 2290 | Di-n-butylphthalate | 16409 | | <0.001 | EPA606 | 0.001 | 3/22/91 |
| 2294 | Butyl benzyl phthalate | 16409 | | <0.001 | EPA606 | 0.001 | 3/22/91 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 2298 | Bis(2-ethylhexyl)phthal | 16409 | <0.001 | EPA606 | 0.001 | 3/22/91 |
| 2378 | 1,2,4-trichlorobenzene | 16409 | <0.001 | EPA612 | 0.001 | 3/22/91 |
| 2388 | PCB-1016 | 16409 | <0.0001 | EPA505 | 0.0001 | 3/15/91 |
| 2390 | PCB-1221 | 16409 | <0.0001 | EPA505 | 0.0001 | 3/15/91 |
| 2392 | PCB-1232 | 16409 | <0.0001 | EPA505 | 0.0001 | 3/15/91 |
| 2394 | PCB-1242 | 16409 | <0.0001 | EPA505 | 0.0001 | 3/15/91 |
| 2396 | PCB-1248 | 16409 | <0.0001 | EPA505 | 0.0001 | 3/15/91 |
| 2398 | PCB-1254 | 16409 | <0.0001 | EPA505 | 0.0001 | 3/15/91 |
| 2400 | PCB-1260 | 16409 | <0.0001 | EPA505 | 0.0001 | 3/15/91 |
| 9089 | Dioctylphthalate | 16409 | <0.001 | EPA606 | 0.001 | 3/22/91 |

Comments:

Unregulated Acid Extractable Analysis
17-550.410(4)
(PWS037)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 9108 | 2-chlorophenol | 16409 | | <0.001 | EPA604 | 0.001 | 3/22/91 |
| 9112 | 2-methyl-4,6-dinitophe | 16409 | | <0.001 | EPA604 | 0.001 | 3/22/91 |
| 9115 | Phenol | 16409 | | <0.001 | EPA604 | 0.001 | 3/22/91 |
| 9116 | 2,4,6-trichlorophenol | 16409 | | <0.001 | EPA604 | 0.001 | 3/22/91 |

Comments:

FLOWERS CHEMICAL LABORATORIES INCORPORATED

ANALYTICAL & CONSULTING CHEMISTS

# CHAIN OF CUSTODY RECORD

Sam Sparks

CLIENT: SSU | ADDRESS: 1000 Color Place Apopka, FL 32703 | PHONE: 880-0058 x 16

PROJECT NAME: B910416 | REQUIRED: ☐ Urgent ☐ Routine | DATE:

| Sample Containers QTY | Preservative: HNO3 | H2SO4 | HCl | Na2S2O3 | Zn(C2H3O2)/NaOH | NaOH/AscAcid | Plastic Containers: 60mL | 125mL | 250mL | 500mL | 1L | 2L | Whirl-Pak Bag | Glass Containers: 40mL Vial | 250mL | 500mL | 1L | 2L | 4L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8 | | | | | | | | | | | | | | X | | | | | |
| 1 | | | | | | | | | | | | | | | | | | | X |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |

NOTES: 4 wells

Kit Relinquished: | Date: Time: | Kit Received: | Date: Time:

Parameters: Pvoc Unreg.

| Laboratory Number | Client Identification/Description |
|---|---|
| # 781 | Tropical Pak. |
| # 784 16409 | Daly Lake |
| # 773 | Ft Hyatt |

| | | Date | Time |
|---|---|---|---|
| Sample Collection: | Bill Tindel | 3/3/91 | 10:30 |
| Transportation: | Bill Tindel | 3/4/91 | |
| Lab Acceptance: | | 3/4/91 | 1:40 |

Page _____ of _____

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.

481 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597

SSU
SERVICES

**General Offices**
1000 Color Place
Apopka, FL 32703
(407) 880-0058

June 28, 1991

Ms. Marie Carrasquillo
State of Florida
Department of Environmental Regulation
3319 Maguire Boulevard
Suite 232
Orlando, Florida 32807-3767

Re: Drinking Water Compliance Analysis
Tropical Park #1 & 2 Water Systems
ID #3491958

Dear Ms. Carrasquillo,

Please find enclosed for your records, second quarter Volatile Organic analysis for the Tropical Park treatment plant, wells #1 and #2.

These results are combined analysis with three (2) other Osceola County wells as listed in the analysis report.

Your continued cooperation and assistance as always, is greatly appreciated.

Sincerely,

SSU Services

Sam Sparks
Division Supervisor

SS/jlm
cc: Charles Sweat
Mel Fisher
Clara Dozier
Osceola County
File

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Junll 1991
PO Number: 891045

PO Number SSU
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WATER SAMPLE
Date Received: Jun 6 1991 Lab Number : 17111

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 17111 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 95.4 | 3.91 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 104 | .587 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 112 | 7.56 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 112 | 7.56 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 107 | 1.89 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 110 | .681 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 110 | 1.06 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 111 | .709 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 107 | .740 | <0.001 |
| Benzene | mg/L | 0.001 | 105 | .268 | <0.001 |

Data Release Authorization

Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FDL QA and EPA approved methodology.

Andrew Harrison
Laboratory Manager

Page . of .

Jefferson L. Flowers, Ph.D
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P O BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984
FAX (407) 260-6[illegible]

Volatile Organic Analysis
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 17111 | .00002 | <.000005 | EPA504.1 | .000005 | 6/7/91 |
| 2969 | Para-dichlorobenzene | 17111 | .075 | <0.001 | EPA502.2 | 0.001 | 6/7/91 |
| 2976 | Vinyl chloride | 17111 | 0.001 | <0.001 | EPA502.2 | 0.001 | 6/7/91 |
| 2977 | 1,1-dichloroethene | 17111 | 0.007 | <0.001 | EPA502.2 | 0.001 | 6/7/91 |
| 2980 | 1,2-dichloroethane | 17111 | 0.003 | <0.001 | EPA502.2 | 0.001 | 6/7/91 |
| 2981 | 1,1,1-trichloroethane | 17111 | 0.2 | <0.001 | EPA502.2 | 0.001 | 6/7/91 |
| 2982 | Carbon tetrachloride | 17111 | 0.003 | <0.001 | EPA502.2 | 0.001 | 6/7/91 |
| 2984 | Trichloroethene | 17111 | 0.003 | <0.001 | EPA502.2 | 0.001 | 6/7/91 |
| 2987 | Tetrachloroethene | 17111 | 0.003 | <0.001 | EPA502.2 | 0.001 | 6/7/91 |
| 2990 | Benzene | 17111 | 0.001 | <0.001 | EPA502.2 | 0.001 | 6/7/91 |

Comments:

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 7491958
Public Water System Name Tropical Inn 142
Public Water System Type (check one):
( )Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyz: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___: Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable_X_; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number 17111
Sample Location (be specific): _____
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
( )Raw ( )Well ( )Resample
( )Special_____
Sampler Name, Title Phone:_____
_____

**ANALYSIS INFORMATION**
Extraction Date _____
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTEL Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___: Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature:_____

Name **Andrew B. Harrison**

Title **Laboratory Manager**

Laboratory **Flowers Chemical Laboratories,Inc.**

Date 6/10/91

Mail Results to the
Appropriate DER or ACPHU Office:
_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 06/01/8 () Satisfactory () Unsatisfactory

[redacted] 13.1

ATTN: Sam Sparks

ANALYTICAL & CONSULTING CHEMISTS
CHAIN OF CUSTODY RECORD
DRINKING WATER 17-550

FDER Lab# 860018
FDHRS Lab# 82139
NCDEHNR Lab# 392
SCDHEC Lab# 96019

| (1) Client | (2) Address | (3) Phone |
|---|---|---|
| SSU | 1000 Cobia Place Apopka FL 32703 | 880-1058 |

(4) Public Drinking Water ID #
(5) Public Water System Name:
(6) Project #: B91045
(7) PO#:
(8) Public Water System Type: (X) Community ( ) Non-Community ( ) Special Non-Community

| | | Preservative | | | Plastic Containers | | | | | | Glass Containers | | | | | | NOTES: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | HNO3 | ZnOAC+NaOH | | 60ml | 125ml | 250ml | 500ml | 1L | Whirl-Pak Bag | 40ml | 250ml | 500ml | 1L | 2L | 4L | |
| 91 | 12 | | | | | | | | | | X | | | | | | (9) Turn Around Time: 10 Working Days: ___ 5 Working Days: ___ 3 Working Days: ___ 1 Working Day: ___ Other: ___ |
| | | | | | | | | | | | | | | | | | Tropical Park #1 1 well |
| | | | | | | | | | | | | | | | | | Tropical Park #2 1 well |
| | | | | | | | | | | | | | | | | | Bay Lake Estates 1 well |
| | | | | | | | | | | | | | | | | | Lake Ajay 1 well |
| | | | | | | | | | | | | | | | | | 4 wells PLZ Comp |

(11) Relinquished: (12) Date: (13) Time:
(14) Received: (15) Date: (16) Time:

) SAMPLE INFORMATION; SAMPLE DATE: MONTH_____ DATE_____ YEAR_____
SAMPLE TYPE ( check all applicable); ( ) check, ( ) regular distribution
( ) composite, ( ) clearance, ( ) max residence time, ( ) plant tap,
(←) raw, (←) well, ( ) resample_____, ( ) special_____
SAMPLER'S NAME:_____ TITLE:_____ PHONE:_____
SAMPLER'S SIGNATURE:_____
NOTES:

(No air bubbles) Keep cold

/

(17) Parameter Group(s) Analyzed: Turbidity__; Inorganic__; Trihalomethane__; Volatile Organic__;
Organic Chemical__; Secondary Chemical__; Radiological__; Unregulated Organic Purgeable__;
Unregulated Organic Pesticide__; Unregulated Base Neutral Extractable__; Unregulated Acid Extractable__;

| (3) Laboratory Number | (5) Client Sample Identification |
|---|---|
| | #1 Bay Lake 6/3 745 |
| | #2 Bay Lake 6/4 800 |
| | #3 Bay Lake 6/5 1230 |
| 17111 | #4 LK Ajay 6/3 900 |
| | #5 LK Ajay 6/4 900 |
| | #6 LK Ajay 6/5 130 |
| | #7 Trop. Pk #1 |
| | #8 Trop Pk #2 |
| | #9 |
| | #10 |

| | | Date | Time |
|---|---|---|---|
| (18) Collectors Signature: | William Sandel | 6/2-6-5 | |
| (19) Transporters Signature: | William Sandel | 6/6 | |
| (20) Lab Acceptance By: | Laura L. Lock | 12-1-91 | 10:10 Am |

SSU SERVICES

**General Offices**
1000 Color Place
Apopka, FL 32703
(407) 880-0058

October 3, 1991

Ms. Marie Carrasquillo
State of Florida
Department of Environmental Regulation
3319 Maguire Boulevard
Suite 232
Orlando, Florida 32803-3767

Re: Drinking Water Compliance Analysis
Tropical Park Water System
PWS ID #3491958

Dear Ms. Carrasquillo,

Please find enclosed for your records, third quarter Volatile Organic analysis for the Tropical Park treatment plant, well #1 and #2.

These results are combined analysis with two (2) other Osceola County wells as listed in the analysis report.

Your continued cooperation and assistance as always, is appreciated.

Sincerely,

SSU Services

Sam Sparks
Area Supervisor

SS/jlm

cc: Charles Sweat
Frank Sanderson
Mel Fisher
Clara Dozier
Osceola County
File

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Sep24 1991
PO Number: HOLD REPORT
PO Number Various
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: COMP. SAMPLE
Date Received: Sep18 1991 Lab Number : 17838

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 17838 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 108 | 1.38 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 97.6 | 5.31 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 116 | 9.11 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 116 | 9.11 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 105 | 9.35 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 109 | 9.18 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 108 | 9.60 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 103 | 9.16 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 89.7 | 6.95 | <0.001 |
| Benzene | mg/L | 0.001 | 102 | 7.68 | <0.001 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984
FAX (407) 260-6110

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 3201958
Public Water System Name Tropical Park
Public Water System Type (check one):
(X)Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyzed: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number 17838
Sample Location (be specific): _____
Sample Type (check all applicable):
( )Check ( )Regular Distribution (X)Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
( )Raw ( )Well ( )Resample
( )Special_____
Sampler Name, Title Phone:_____
_____

**ANALYSIS INFORMATION**
Extraction Date ___/___/____
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTED Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature:_____

Name **Dr. Jefferson S Flowers**

Title **Technical Director**

Laboratory **Flowers Chemical Laboratories,Inc.**

Date 9/23/91

Mail Results to the
Appropriate DER or ACPHU Office:
_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 06/01/8( ) Satisfactory ( ) Unsatisfactory

Volatile Organic Analysis
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 17838 | .00002 | <.000005 | EPA504.1 | .000005 | 9/20/91 |
| 2969 | Para-dichlorobenzene | 17838 | .075 | <0.001 | EPA502.2 | 0.001 | 9/19/91 |
| 2976 | Vinyl chloride | 17838 | 0.001 | <0.001 | EPA502.2 | 0.001 | 9/19/91 |
| 2977 | 1,1-dichloroethene | 17838 | 0.007 | <0.001 | EPA502.2 | 0.001 | 9/19/91 |
| 2980 | 1,2-dichloroethane | 17838 | 0.003 | <0.001 | EPA502.2 | 0.001 | 9/19/91 |
| 2981 | 1,1,1-trichloroethane | 17838 | 0.2 | <0.001 | EPA502.2 | 0.001 | 9/19/91 |
| 2982 | Carbon tetrachloride | 17838 | 0.003 | <0.001 | EPA502.2 | 0.001 | 9/19/91 |
| 2984 | Trichloroethene | 17838 | 0.003 | <0.001 | EPA502.2 | 0.001 | 9/19/91 |
| 2987 | Tetrachloroethene | 17838 | 0.003 | <0.001 | EPA502.2 | 0.001 | 9/19/91 |
| 2990 | Benzene | 17838 | 0.001 | <0.001 | EPA502.2 | 0.001 | 9/19/91 |

Comments:

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

B 9100 6

FDER Lab# E83018
FDHRS Lab# 85138
NELAP Lab# 296
SCDHEC Lab# 99019

## ANALYTICAL & CONSULTING CHEMISTS
## CHAIN OF CUSTODY RECORD
## DRINKING WATER 17-550

Attn: Sam Speers

| (1)Client | (2)Address | (3)Phone |
|---|---|---|
| SSU | 1000 COOP PLACE APOPKA, FL 32703 | 880-0058 |

(4)Public Drinking Water ID # | (5)Public Water System Name:

(6)Project # | (8)Public Water System Type: (X) Community ( ) Non-Community ( ) Special Non-Community

(7)PO#

| | Preservative | | Plastic Containers | | | | | Glass Containers | | | | | | NOTES: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | HNO3 | ZnOAC/NaOH | 60ml | 125ml | 250ml | 500ml | 1L | Whirl Pac Bag | 40ml | 250ml | 500ml | 1L | 2L | 4L | (12)Turn Around Time: 10 Working Days: ___ 5 Working Days: ___ 3 Working Days: ___ 1 Working Day: ___ Other: ___ |
| (16) 15 | | | | | | | | | X | | | | | | BAY LK. ESTATES - 1 well #3490090<br>TROPICAL PK. - 2 wells #3491958<br>LK. AJAY - 1 well #3491956 |

| (17)Kit Relinquished: | (17)Date | (9)Kit Received | (9)Date |
|---|---|---|---|
| R Selleck | 9-12-91 | | |
| | (17)Time 1100 | | (9)Time |

(10)Parameter Group(s) Analysed: Turbidity__; Inorganic__; Trihalomethane__; Volatile Organic X; Organic Chemical__; Secondary Chemical__; Radiological__; Unregulated Organic Purgeable__; Unregulated Organic Pesticide__; Unregulated Base Neutral Extractable__; Unregulated Acid Extractable__

| (18)Laboratory Number | (11)Client Sample Identification |
|---|---|
| 17838 | #1 |
| | #2 |
| | #3 |
| | #4 |
| | #5 |
| | #6 |
| | #7 |
| | #8 |
| | #9 |
| | #10 |

| | | Date | Time |
|---|---|---|---|
| (13)Collectors Signature: | Bill Lindell | 9/12 | 1100 |
| (14)Transporters Signature: | Bill Lindell | 9/12 | 3:20 |
| (15)Lab Acceptance By: | M. Jones Co. | 9/12 | 3:3.. |

Over for numbered instructions.

SSU
SERVICES

**General Offices**
1000 Color Place
Apopka, FL 32703
(407) 880-0058

January 2, 1992

Ms. Marie Carrasquillo
State of Florida
Department of Environmental Regulation
3319 Maguire Boulevard
Suite 232
Orlando, FL 32807-3767

**Re: Drinking Water Compliance Analysis**
**Tropical Park / PWS ID # 3491958**

Dear Ms. Carrisquillo:

Please find enclosed for your records, fourth quarter Volatile Organic analysis for the Tropical Park water treatment plant, well # 1 and well # 2.

These results are combined with three other Osceola County wells as listed in the analysis report.

Your continued cooperation and assistance as always, is appreciated.

Sincerely,

Sam Sparks,
Area Supervisor

\csd

cc: Jim Ragsdale
Frank Sanderson
Mel Fisher
Jim Murray
Osceola County w/ attachments

Tropical PK

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
1000 Color Place
Apopka, FL 32703

Date Reported: Dec19 1991
PO Number: LI14113
PO Number Osceola Cty.
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WINDSONG COMP.
Date Received: Dec11 1991 Lab Number : 18476

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 18476 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 99.5 | 10.7 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 84.3 | 4.25 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 86.9 | .367 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 86.9 | .367 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 85.2 | 5.21 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 84.6 | 5.21 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 84.1 | 5.81 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 92.8 | 6.06 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 84.5 | 1.13 | <0.001 |
| Benzene | mg/L | 0.001 | 84.1 | 3.18 | <0.001 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



Jefferson S. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984
FAX (407) 260-6110

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 3491958
Public Water System Name Tropical Park
Public Water System Type (check one):
( )Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyz Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number 18477
Sample Location (be specific): _____
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
( )Raw ( )Well ( )Resample
( )Special_____
Sampler Name, Title Phone:_____
_____

**ANALYSIS INFORMATION**
Extraction Date ___/___/____
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTEL Turbidity___:Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature:_____

Name Dr Jefferson S Flowers

Title Technical Director

Laboratory Flowers Chemical Laboratories,Inc.

Date 12/18/91

Mail Results to the
Appropriate DER or ACPHU Office:
_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 06/01/( () Satisfactory () Unsatisfactory

Volatile Organic Analysis
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 18477 | .00002 | <.000005 | EPA504.1 | .000005 | 12/18/91 |
| 2969 | Para-dichlorobenzene | 18477 | .075 | <0.001 | EPA502.2 | 0.001 | 12/12/91 |
| 2976 | Vinyl chloride | 18477 | 0.001 | <0.001 | EPA502.2 | 0.001 | 12/12/91 |
| 2977 | 1,1-dichloroethene | 18477 | 0.007 | <0.001 | EPA502.2 | 0.001 | 12/12/91 |
| 2980 | 1,2-dichloroethane | 18477 | 0.003 | <0.001 | EPA502.2 | 0.001 | 12/12/91 |
| 2981 | 1,1,1-trichloroethane | 18477 | 0.2 | <0.001 | EPA502.2 | 0.001 | 12/12/91 |
| 2982 | Carbon tetrachloride | 18477 | 0.003 | <0.001 | EPA502.2 | 0.001 | 12/12/91 |
| 2984 | Trichloroethene | 18477 | 0.003 | <0.001 | EPA502.2 | 0.001 | 12/12/91 |
| 2987 | Tetrachloroethene | 18477 | 0.003 | <0.001 | EPA502.2 | 0.001 | 12/12/91 |
| 2990 | Benzene | 18477 | 0.001 | <0.001 | EPA502.2 | 0.001 | 12/12/91 |

Comments:

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

FDER Lab# E82018
FDHRS Lab# 85139
NCCEHNR Lab# 296
SCCHEC Lab# 96019

ANALYTICAL & CONSULTING CHEMISTS
CHAIN OF CUSTODY RECORD
DRINKING WATER 17-550

ATTN: BILL

(1)Client: SSU | (2)Address: 1000 Colorplace, Apopka | (3)Phone: 407-2430

(4)Public Drinking Water ID #: | (5)Public Water System Name:

(6)Project #: | (7)PO# OSCEOLA CTY. | (8)Public Water System Type: [X] Community [ ] Non-Community [ ] Special Non-Community

| | Preservative | | | Plastic Containers | | | | | | Glass Containers | | | | | | NOTES: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | HNO3 | ZnOAC/NaOH | | 60ml | 125ml | 250ml | 500ml | 1L | Whirl-Pac Bag | 40ml | 250ml | 500ml | 1L | 2L | 4L | (12)Turn Around Time: 10 Working Days: 5 Working Days: 3 Working Days: 1 Working Day: Other LAND SCAN - (1 well) #3494291 |
| (16) | 20 | | | | | | | | | X | | | | | | TROPICAL PK - (2 wells) ID #3491958 BAY LAKE - (1 well) ID#3490090 LAKE ASAY - (1 well) ID# 3491956 INTERSESSION CITY - (2 wells) ID # 3490073 PINE RIDGE - (2 wells) #3494292 |

(17)Kit Relinquished: | (17)Date: 12-9-91 | (17)Time: 1:30 | (9)Kit Received | (9)Date | (9)Time

(10)Parameter Group(s) Analysed: Turbidity__; Inorganic__; Trihalomethane__; Volatile Organic X; Organic Chemical__; Secondary Chemical__; Radiological__; Unregulated Organic Purgeable__; Unregulated Organic Pesticide · Unregulated Base Neutral Extractable · Unregulated Acid Extractable ·

| (18)Laboratory Number | | (11)Client Sample Identification |
|---|---|---|
| 18476 | #1 | LANDSCAPE (1 well) |
| | #2 | TROPICAL PARK (2 wells) |
| | #3 | BAY LK (1 well) } Comp. |
| | #4 | LK ASAY (1 well) |
| | #5 | |
| 18477 | #6 | |
| | #7 | INTERSESSION CITY (2 wells) |
| | #8 | PINERIDGE EST (2 wells) } Comp |
| | #9 | |
| | #10 | |

(13)Collectors Signature: Bill Lewis | Date: 12/11 | Time: noon

(14)Transporters Signature: | Date: | Time:

(15)Lab Acceptance By: | Date: 12/11/91 | Time: 3:27

Over for numbered instructions.

HRS

State of Florida
Department of Health and Rehabilitative Services
Office of Laboratory Services
P.O. Box 210
Jacksonville, Florida 32231

verbal notification per 12/7/91 (Jack)

FOR LAB USE ONLY NO. 13603

DEC 3 3 PM

BY: D. A[illegible]NIS

RECEIVED DEC 16 1991 12/10

9491498

# DRINKING WATER BACTERIOLOGICAL ANALYSIS

SYSTEM NAME: Tropical Park SYSTEM I.D. NO: [illegible] SYSTEM PHONE #: [illegible]

ADDRESS: 2m 1000 Colorpine COUNTY: Osceola DER DISTRICT: 02

COLLECTOR: Bill T COLLECTOR PHONE #: None

SAMPLE SITE (Locality or Subdivision): Tropical Park

DATE AND TIME COLLECTED: 12/9 930

TYPE OF SUPPLY(Circle one): (Community water system) Noncommunity water system Nontransient - noncommunity water system Private well Swimming pool Bottled water Other public water system

TYPE OF SAMPLE(Circle one): Compliance (Check Box) [x] Distribution [x] Raw Repeat (Check Box) [ ] TNTC or C [ ] Turbid [ ] Replacement Main clearance Well survey Other _____ (Specify)

REMARKS:

12/11

| TO BE COMPLETED BY COLLECTOR OF SAMPLE | | | | TO BE COMPLETED BY LAB | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | ANALYSIS METHOD: | MF | MTF | NMO-MUG | PA |
| COLL. NO. | SAMPLE POINT (Specific Address) | Cl RES'D | pH | SAMPLE NUMBER | NON COLIFORM | *TOTAL | CONFIRM TOTAL | CONFIRM FECAL |
| 1 | well 1 | - | 7.4 | 05[illegible]55 | | A | | |
| 2 | well 2 | - | 7.4 | 05[illegible]456 | | P(1) | (P) | (P) |
| 3 | 2772 Trop. Lk Drive | 1.2 | 7.4 | 05[illegible]57 | | A | | |
| 4 | 2704 Miami Terr. | 1.0 | 7.4 | 0[illegible] | | A | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

* Results in this colum are preliminary. Fecal coliform confirmation on community and noncommunity water systems and total coliform confirmation on all types of water systems will follow in 24-48 hours.

P - Coliforms are present
A - Coliforms are absent
C - Confluent growth
TNTC - Too numerous to count
TA - Turbid, Absence of gas or acid

INTERPRETATIONS-REMARKS BY PROGRAM REVIEWER

Resubmitted 12/19/91

NAME AND MAILING ADDRESS OF PERSON/FIRM TO RECEIVE REPORT

[illegible] Services
[illegible] Orange Ave
Apopka, FL 32703

( )
(X) SATISFACTORY
( ) INCOMPLETE COLLECTION INFORMATION
( ) REPEAT SAMPLES
( ) REPLACEMENT SAMPLES

wlg2 b.l.

REVIEWING OFFICIAL: [signature] BJL

TITLE: _____

HRS Form 865, Jan 91 (Obsolete previous editions which may not be used) (Stock Number: 5760-000-0865-1)

HRS

State of Florida
Department of Health and Rehabilitative Services
Office of Laboratory Services
P.O. Box 210
Jacksonville, Florida 32231

FOR LAB USE ONLY
K. Blakeney
12-19-91 4:18pm

# DRINKING WATER
# BACTERIOLOGICAL ANALYSIS

SYSTEM NAME: Tropical Park II SYSTEM I.D. NO: 3491958 SYSTEM PHONE #: 880-0068
ADDRESS: % 1000 Color Place Apopka Fla COUNTY: Osceola Co. DER DISTRICT: 07
COLLECTOR: John Coffee COLLECTOR PHONE #: 880-0068
SAMPLE SITE (Locality or Subdivision): Water Place
DATE AND TIME COLLECTED: 12/18/91 3:00 p.m.
TYPE OF SUPPLY(Circle one): (Community water system) Noncommunity water system Nontransient - noncommunity water system
Private well Swimming pool Bottled water Other public water system
TYPE OF SAMPLE(Circle one): Compliance (Check Box) [ ] Distribution [V] Raw Repeat (Check Box) [ ] TNTC or C [ ] Turbid [ ] (Replacement) Main clearance Well survey Other _____ (Specify)
REMARKS: D

| TO BE COMPLETED BY COLLECTOR OF SAMPLE | | | | TO BE COMPLETED BY LAB | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | ANALYSIS METHOD: | MF | MTF | MMO-MUG | PA |
| COLL. NO. | SAMPLE POINT (Specific Address) | Cl RES'D | pH | SAMPLE NUMBER | (MOD) COLIFORM | *TOTAL | CONFIRM TOTAL | CONFIRM FECAL |
| 1 | Well #2 | 0 | 7.4 | 2450 | 0 | A | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

* Results in this column are preliminary. Fecal coliform confirmation on community and noncommunity water systems and total coliform confirmation on all types of water systems will follow in 24-48 hours.

P - Coliforms are present C - Confluent growth TA - Turbid, Absence of gas or acid
A - Coliforms are absent TNTC - Too numerous to count

INTERPRETATIONS-REMARKS BY PROGRAM REVIEWER

NAME AND MAILING ADDRESS OF PERSON/FIRM TO RECEIVE REPORT

SSU Services Inc
1000 Color Place
Apopka Fl 32703

( )
( ) SATISFACTORY
( ) INCOMPLETE COLLECTION INFORMATION
(X) REPEAT SAMPLES
( ) REPLACEMENT SAMPLES

REVIEWING OFFICIAL: _____

TITLE: _____

1993 Form 655, Jan 91 (Obsolete previous editions which may not be used) (Stock Number: 0740-000-0066-6)

# University Shores - 106

**Orange County (SSU)**

**Water**

**- 1992 FPSC Filing -**

# University Shores / Suncrest

## Chemical Analyses

The most recent chemical analyses for the water system conducted by a certified laboratory covering the inorganic, organic, turbidity, microbiological, radionuclide, secondary and unregulated contaminants.

| Chemical Analysis | Date Taken |
|---|---|
| Inorganic | U) 3/91 S) 4/91 |
| Organic | U) 3/91 S) 4/91 |
| Volatile Organic Chemicals | 3/89 |
| | 6/89 |
| | 8/89 |
| | 11/89 |
| Turbidity | U) 3/91 S) 4/91 |
| Microbiological | 12/91 |
| Radionuclide | 2/88 |
| Secondary Contaminants | U) 3/91 S) 4/91 |
| Unregulated Contaminants | 11/89 |

U - University Shores Plant
S - Suncrest Plant

SSU
SERVICES

**General Offices**
1000 Color Place
Apopka, FL 32703
(407) 880-0058

April 23, 1991

Ms. Marie Carrasquillo
State of Florida
Department of Environmental Regulation
3319 Maguire Boulevard
Suite 232
Orlando, Florida 32807-3767

Re: Drinking Water Compliance Analysis
for University Shores System
ID #3431413

Dear Ms. Carrasquillo,

Please find enclosed for your records, Primary Organics, Inorganics, Secondary Contaminants, and Turbidity analysis for the University Shores distribution system.

Your cooperation and assistance as always, is greatly appreciated.

Sincerely,

SSU Services

Sam Sparks
Division Supervisor

SS/jlm

cc: Charles Sweat
Mel Fisher
Clara Dozier
Ralph Terrero
File

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Apr 5 1991
PO Number: Plant#106

PO Number
FDHRS Lab# : 83139
FDER Lab# : EB3018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: PLANT 106
Date Received: Mar22 1991 Lab Number : 16522

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16522 |
|---|---|---|---|---|---|
| Turbidity | NTU | 0.05 | 100 | 7.37 | 0.61 |
| Arsenic | mg/L | 0.0005 | 96.1 | 2.20 | <0.0005 |
| Barium | mg/L | 0.01 | 93.0 | 2.01 | 0.14 |
| Cadmium | mg/L | 0.001 | 105 | .000 | <0.001 |
| Chromium | mg/L | 0.005 | 111 | .764 | <0.005 |
| Fluoride | mg/L | 0.05 | 101 | 1.30 | 0.0709 |
| Lead | mg/L | 0.001 | 104 | 9.35 | 0.0056 |
| Mercury | mg/L | 0.0002 | 100. | 4.54 | <0.0002 |
| Nitrate(as N) | mg/L | 0.01 | 102 | 9.98 | 0.0875 |
| Selenium | mg/L | 0.0005 | 109 | 1.06 | <0.0005 |
| Silver | mg/L | 0.005 | 104 | .509 | <0.005 |
| Sodium | mg/L | 0.002 | 103 | .516 | 0.15 |
| Endrin | mg/L | 0.000001 | 99.6 | 3.41 | <0.000001 |
| Lindane | mg/L | 0.000001 | 98.4 | 2.59 | <0.000001 |
| Methoxychlor | mg/L | 0.00001 | 113 | 5.01 | <0.00001 |
| Toxaphene | mg/L | 0.0001 | 106 | .935 | <0.0001 |
| 2,4-D | mg/L | 0.00005 | 110 | 4.52 | <0.00005 |
| 2,4,5-TP(Silvex) | mg/L | 0.00002 | 109 | 4.85 | <0.00002 |
| Calcium | mg/L | 0.1 | 89.3 | .480 | 50.1 |
| Chloride | mg/L | 0.015 | 98.5 | .522 | 17.7 |
| Carbonate_CaCO3 | mg/L | 0.1 | | | 127.7 |
| Hydroxide_CaCO3 | mg/L | 0.1 | | | - |
| Copper | mg/L | 0.005 | 101 | 1.43 | 0.042 |
| Bicarbonate _CaCO3 | mg/L | 0.1 | | | 127.01 |
| Carbonate_Alkalinity | mg/L | 0.1 | | | 0.5 |
| Hydrogen_Sulfide | mg/L | 0.5 | | | - |

Data Release Authorization

Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P O BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5084
FAX (407) 260-6[illegible]

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Apr 5 1991
PO Number: Plant#106

PO Number
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: PLANT 106
Date Received: Mar22 1991 Lab Number : 16522

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16522 |
|---|---|---|---|---|---|
| Iron | mg/L | 0.01 | 108 | 1.08 | 0.076 |
| Magnesium | mg/L | 0.01 | 107 | 1.30 | 8.01 |
| Manganese | mg/L | 0.005 | 106 | .407 | 0.008 |
| Sulfate | mg/L | 0.2 | 99.2 | 1.22 | 1.94 |
| Zinc | mg/L | 0.001 | 105 | .876 | 0.024 |
| Carbon_Dioxide | mg/L | 0.1 | | | 5.6 |
| Color | mg/L | 5 | - | .000 | 10 |
| Total_Hardness | mg/L | 0.1 | | | 158.5 |
| NCH_as_CaCO3 | mg/L | 0.1 | | | 30.8 |
| Odor(TON) | TON | 1 | - | .000 | <1 |
| Field_pH | pH | 0.01 | | | - |
| Lab_pH | pH | 0.01 | 100 | 1.00 | 7.66 |
| Field Conductivity | umhos/c | 0.01 | | | - 450 |
| Total Alkalinity | mg/L | 0.1 | 99.4 | .667 | 128 |
| TDS | mg/L | 2.5 | 95.3 | 3.77 | 180 |
| Phenolphthalein Alk. | mg/L | 0.1 | | | - 36 |
| Field Temp. (C) | oC | 1 | | | 25 |
| Langelier Index | LX | 0.01 | | | 0.02 |
| Saturation Index | pHs | 0.01 | | | 7.64 |
| Stability Index | pH | 0.01 | | | 7.62 |
| Foaming Agents | mg/L | 0.1 | 99.7 | 1.02 | <0.1 |
| Field DO | mg/L | 0.1 | | | - 11 |
| Field Chlorine | mg/L | 0.1 | | | - 1.0 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P O BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984
FAX (407) 260-6112

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 3431413
Public Water System Name University Shores Orange Co.
Public Water System Type (check one):
(X)Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyz: Turbidity_X_;Inorganic_X_; Trihalomethane ___;
Volatile Organic___; Organic Chemical_X_; Secondary Chemical_X_; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number 16522
Sample Location (be specific): _____
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
( )Raw ( )Well ( )Resample
( )Special_____
Sampler Name, Title Phone:_____
_____

**ANALYSIS INFORMATION**
Extraction Date 4/1/91
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTEL Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature: _____

Name Dr. Jefferson S Flowers

Title Technical Director

Laboratory Flowers Chemical Laboratories,Inc.

Date 4/3/91

Mail Results to the Appropriate DER or ACPHU Office:
_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 06/01/9 () Satisfactory () Unsatisfactory

## Turbidity Analysis
17-550.310(3)
(PWS026)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(NTU | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 0100 | Turbidity | 16522 | 1 | .610 | EPA180.1 | 0.05 | 3/25/91 |

Comments:

## Inorganic Analysis
17-550.310(1)
(PWS030)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1005 | Arsenic | 16522 | 0.05 | <0.0005 | EPA206.3 | 0.0005 | 4/2/91 |
| 1010 | Barium | 16522 | 1 | .140 | EPA208.1 | 0.01 | 3/29/91 |
| 1015 | Cadmium | 16522 | 0.01 | <0.001 | EPA213.1 | 0.001 | 3/25/91 |
| 1020 | Chromium | 16522 | 0.05 | <0.005 | EPA218.1 | 0.005 | 3/27/91 |
| 1025 | Fluoride | 16522 | 4 | .0709 | EPA340.1 | 0.05 | 3/26/91 |
| 1030 | Lead | 16522 | 0.05 | .00560 | EPA239.2 | 0.001 | 3/29/91 |
| 1035 | Mercury | 16522 | 0.002 | <0.0002 | EPA245.1 | 0.0002 | 3/27/91 |
| 1040 | Nitrate(as N) | 16522 | 10 | .0875 | EPA353.1 | 0.01 | 03-27-91 |
| 1045 | Selenium | 16522 | 0.01 | <0.0005 | EPA270.3 | 0.0005 | 4/2/91 |
| 1050 | Silver | 16522 | 0.05 | <0.005 | EPA272.1 | 0.005 | 4/1/91 |
| 1052 | Sodium | 16522 | 160 | .150 | EPA273.1 | 0.002 | 3/28/91 |

Comments:

## Organic Chemical Analysis
17-550.310(2)(a)(b)
(PWS029)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2005 | Endrin | 16522 | 0.0002 | <.000001 | EPA508 | .000001 | 4/1/91 |
| 2010 | Lindane | 16522 | 0.004 | <.000001 | EPA508 | .000001 | 4/1/91 |
| 2015 | Methoxychlor | 16522 | 0.1 | <0.00001 | EPA508 | 0.00001 | 4/1/91 |
| 2020 | Toxaphene | 16522 | 0.005 | <0.0001 | EPA508 | 0.0001 | 4/1/91 |
| 2105 | 2,4-D | 16522 | 0.1 | <0.00005 | EPA515 | 0.00005 | 4/1/91 |
| 2110 | 2,4,5-TP(Silvex) | 16522 | 0.01 | <0.00002 | EPA515 | 0.00002 | 4/1/91 |

Comments:

## Secondary Chemical Analysis
17-550.320
(PWS031)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1016 | Calcium | 16522 | | 50.1 | EPA215.1 | 0.1 | 3/29/91 |
| 1017 | Chloride | 16522 | 250 | 17.7 | EPA300.0 | 0.015 | 03-25-91 |
| 1019 | Carbonate CaCO3 | 16522 | | 127.7 | SM314A | 0.1 | 3/29/91 |
| 1021 | Hydroxide CaCO3 | 16522 | | 0.0 | SM406C | 0.1 | 3/29/91 |
| 1022 | Copper | 16522 | 1 | .0420 | EPA220.1 | 0.005 | 4/3/91 |
| 1023 | Bicarbonate CaCO3 | 16522 | | 127.1 | SM406C | 0.1 | 3/29/91 |
| 1026 | Carbonate Alkalinity | 16522 | | 0.5 | SM406C | 0.1 | 3/29/91 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1027 | Hydrogen Sulfide | 16522 | | | EPA376.1 | 0.5 | |
| 1028 | Iron | 16522 | 0.3 | .0760 | EPA236.1 | 0.01 | 3/27/91 |
| 1031 | Magnesium | 16522 | | 8.10 | EPA242.1 | 0.01 | 3/29/91 |
| 1032 | Manganese | 16522 | 0.05 | .00800 | EPA243.1 | 0.005 | 3/25/91 |
| 1055 | Sulfate | 16522 | 250 | 1.94 | EPA300.0 | 0.200 | 3/28/91 |
| 1095 | Zinc | 16522 | 5 | .0240 | EPA289.1 | 0.001 | 4/3/91 |
| 1901 | Carbon Dioxide | 16522 | | 5.6 | SM406C | 0.1 | 3/29/91 |
| 1905 | Color | 16522 | 15 | 10.0 | EPA110.1 | 5 | 3/27/91 |
| 1915 | Total Hardness | 16522 | | 158.5 | SM314A | 0.1 | 3/29/91 |
| 1917 | NCH as CaCO3 | 16522 | | 30.8 | SM314A | 0.1 | 3/29/91 |
| 1920 | Odor(TON) | 16522 | 3 | <1 | EPA140.1 | 1 | 3/27/91 |
| 1924 | Field pH | 16522 | 6.5-8.5 | | EPA150.1 | 0.01 | |
| 1925 | Lab pH | 16522 | 6.5-8.5 | 7.66 | EPA150.1 | 0.01 | 4/1/91 |
| 1926 | Field Conductivity | 16522 | | | - | 0.01 | |
| 1927 | Total Alkalinity | 16522 | | 128 | EPA310.1 | 0.1 | 3/29/91 |
| 1930 | TDS | 16522 | 500 | 160 | EPA160.1 | 2.5 | 4/1/91 |
| 1931 | Phenolphthalein Alk. | 16522 | | | EPA310.1 | 0.1 | |
| 1996 | Field Temp. (C) | 16522 | | | - | | 1 3/29/91 |
| 1997 | Langelier Index | 16522 | -0.2:+0.2 | 0.02 | SM203 | 0.01 | 3/29/91 |
| 1998 | Saturation Index | 16522 | | 7.64 | SM203 | 0.01 | 3/29/91 |
| 1999 | Stability Index | 16522 | | 7.62 | SM203 | 0.01 | 3/29/91 |
| 2909 | Foaming Agents | 16522 | 0.5 | | EPA425.1 | 0.1 | 4/1/91 |
| 9996 | Field DO | 16522 | | | - | 0.1 | |
| 9997 | Field Chlorine | 16522 | | | - | 0.1 | |

Comments:

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

ANALYTICAL & CONSULTING CHEMISTS

# CHAIN OF CUSTODY RECORD

PO # 22346

| CLIENT | ADDRESS | PHONE |
|---|---|---|
| Southern States | | |
| PROJECT NAME: Plant 106 | REQUIRED: ☐ Urgent ☐ Routine | DATE |

| Sample Containers QTY | Preservative | | | | | | | Plastic Containers | | | | | | | Glass Containers | | | | | | | NOTES: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | HNO3 | H2SO4 | HCl | Na2S2O3 | Zn(C2H3O2)/NaOH | NaOH/AscAcid | | 60mL | 125mL | 250mL | 500mL | 1L | 2L | Whirl-Pak Bag | 40mL Vial | 250mL | 500mL | 1L | 2L | 4L | | |
| 1 | ✓ | | | | | | | | | | ✓ | | | | | | | | | | | |
| 1 | | | | | | | | | | | | ✓ | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | | | | | | | ✓ | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |

| Kit Relinquished: | Date: Time: | Kit Received: | Date: Time: |
|---|---|---|---|
| | | | |

Parameters: Pri Org, Pri Inorg See TB

| Laboratory Number | Client Identification/Description |
|---|---|
| University Shores / Sunrise | Field Data: D.O. - 11 mg/l |
| | Temp. - 79° F |
| | Chlorine: 450 |
| 16522 | pH 7.3 |
| | Cl2 1.2 |

| | | Date | Time |
|---|---|---|---|
| Sample Collection: | | | |
| Transportation: | | | |
| Lab Acceptance: | | 3/22/91 | 1:00 |

Page _____ of _____

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.

481 NEWBURYPORT
P O BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984
FAX (407) 260-0110

SSU SERVICES

**General Offices**
1000 Color Place
Apopka, FL 32703
(407) 880-0058

April 23, 1991

Ms. Marie Carrasquillo
State of Florida
Department of Environmental Regulation
3319 Maguire Boulevard
Suite 232
Orlando, Florida 32807-3767

Re: Drinking Water Compliance Analysis
for University Shores/Suncrest System
ID #3431413

Dear Ms. Carrasquillo,

Please find enclosed for your records, Primary Organics, Inorganics, Secondary Contaminants, and Turbidity analysis for the University Shores/Suncrest distribution system.

We have noted that the M.C.L. for Manganese was exceeded in the initial analysis and resampling has been scheduled and will be resubmitted on completion.

Your cooperation and assistance as always, is greatly appreciated.

Sincerely,

SSU Services

Sam Sparks
Division Supervisor

SS/jlm

cc: Charles Sweat
Mel Fisher
Clara Dozier
Ralph Terrero
File

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 3431413
Public Water System Name University Shores / Concrest Drive 6.
Public Water System Type (check one):
(X)Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyzi Turbidity_X_;Inorganic_X_; Trihalomethane ___;
Volatile Organic___; Organic Chemical_X_; Secondary Chemical_X_; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable___;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number 16589
Sample Location (be specific): _____
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
( )Raw ( )Well ( )Resample
( )Special _____
Sampler Name, Title Phone: _____
_____

**ANALYSIS INFORMATION**
Extraction Date 4/10/91
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTEL Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable___;

I do HEREBY CERTIFY that all data submitted are correct.

Signature: _____

Name **Dr Jefferson S Flowers**

Title **Technical Director**

Laboratory **Flowers Chemical Laboratories,Inc.**

Date 4/12/91

Mail Results to the
Appropnate DER or ACPHU Office:
_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 06/01/( () Satisfactory () Unsatisfactory

## Turbidity Analysis
17-550.310(3)
(PWS026)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(NTU | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 0100 | Turbidity | 16589 | 1 | .405 | EPA180.1 | 0.05 | 4/11/91 |

Comments:

## Inorganic Analysis
17-550.310(1)
(PWS030)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1005 | Arsenic | 16589 | 0.05 | <0.0005 | EPA206.3 | 0.0005 | 4/11/91 |
| 1010 | Barium | 16589 | 1 | <0.1 | EPA208.1 | 0.01 | 4/10/91 |
| 1015 | Cadmium | 16589 | 0.01 | .00500 | EPA213.1 | 0.001 | 4/10/91 |
| 1020 | Chromium | 16589 | 0.05 | .00600 | EPA218.1 | 0.005 | 4/10/91 |
| 1025 | Fluoride | 16589 | 4 | .0939 | EPA340.1 | 0.05 | 4/5/91 |
| 1030 | Lead | 16589 | 0.05 | <0.01 | EPA239.2 | 0.001 | 4/11/91 |
| 1035 | Mercury | 16589 | 0.002 | <0.0002 | EPA245.1 | 0.0002 | 4/5/91 |
| 1040 | Nitrate(as N) | 16589 | 10 | .0678 | EPA353.1 | 0.01 | 04-10-91 |
| 1045 | Selenium | 16589 | 0.01 | <0.002 | EPA270.3 | 0.0005 | 4/9/91 |
| 1050 | Silver | 16589 | 0.05 | <0.005 | EPA272.1 | 0.005 | 4/9/91 |
| 1052 | Sodium | 16589 | 160 | 6.90 | EPA273.1 | 0.002 | 4/9/91 |

Comments:

## Organic Chemical Analysis
17-550.310(2)(a)(b)
(PWS029)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2005 | Endrin | 16589 | 0.0002 | <.000001 | EPA508 | .000001 | 4/10/91 |
| 2010 | Lindane | 16589 | 0.004 | <.000001 | EPA508 | .000001 | 4/10/91 |
| 2015 | Methoxychlor | 16589 | 0.1 | <0.00001 | EPA508 | 0.00001 | 4/10/91 |
| 2020 | Toxaphene | 16589 | 0.005 | <0.0001 | EPA508 | 0.0001 | 4/10/91 |
| 2105 | 2,4-D | 16589 | 0.1 | <0.00005 | EPA515 | 0.00005 | 4/10/91 |
| 2110 | 2,4,5-TP(Silvex) | 16589 | 0.01 | <0.00002 | EPA515 | 0.00002 | 4/10/91 |

Comments:

## Secondary Chemical Analysis
17-550.320
(PWS031)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1016 | Calcium | 16589 | | 50.9 | EPA215.1 | 0.1 | 4/10/91 |
| 1017 | Chloride | 16589 | 250 | 16.6 | EPA300.0 | 0.015 | 04-11-91 |
| 1019 | Carbonate CaCO3 | 16589 | | 127.7 | SM314A | 0.1 | 4/10/91 |
| 1021 | Hydroxide CaCO3 | 16589 | | 0.0 | SM406C | 0.1 | 4/10/91 |
| 1022 | Copper | 16589 | 1 | .0100 | EPA220.1 | 0.005 | 4/9/91 |
| 1023 | Bicarbonate CaCO3 | 16589 | | 127.4 | SM406C | 0.1 | 4/10/91 |
| 1026 | Carbonate Alkalinity | 16589 | | 0.3 | SM406C | 0.1 | 4/10/91 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1027 | Hydrogen Sulfide | 16589 | | | EPA376.1 | 0.5 | |
| 1028 | Iron | 16589 | 0.3 | .212 | EPA236.1 | 0.01 | 4/8/91 |
| 1031 | Magnesium | 16589 | | 7.70 | EPA242.1 | 0.01 | 4/10/91 |
| 1032 | Manganese | 16589 | 0.05 | 0.080 | EPA243.1 | 0.005 | 4/8/91 |
| 1055 | Sulfate | 16589 | 250 | 1.37 | EPA300.0 | 0.200 | 4/8/91 |
| 1095 | Zinc | 16589 | 5 | .0170 | EPA289.1 | 0.001 | 4/11/91 |
| 1901 | Carbon Dioxide | 16589 | | 10.7 | SM406C | 0.1 | 4/10/91 |
| 1905 | Color | 16589 | 15 | <5 | EPA110.1 | 5 | 4/12/91 |
| 1915 | Total Hardness | 16589 | | 158.8 | SM314A | 0.1 | 4/10/91 |
| 1917 | NCH as CaCO3 | 16589 | | 31.1 | SM314A | 0.1 | 4/10/91 |
| 1920 | Odor(TON) | 16589 | 3 | <1 | EPA140.1 | 1 | 4/12/91 |
| 1924 | Field pH | 16589 | 6.5-8.5 | | EPA150.1 | 0.01 | |
| 1925 | Lab pH | 16589 | 6.5-8.5 | 7.38 | EPA150.1 | 0.01 | 4/4/91 |
| 1926 | Field Conductivity | 16589 | | | - | 0.01 | |
| 1927 | Total Alkalinity | 16589 | | 128 | EPA310.1 | 0.1 | 4/4/91 |
| 1930 | TDS | 16589 | 500 | 211 | EPA160.1 | 2.5 | 4/9/91 |
| 1931 | Phenolphthalein Alk. | 16589 | | | EPA310.1 | 0.1 | |
| 1996 | Field Temp. (C) | 16589 | | 25.0 | - | | 1 4/10/91 |
| 1997 | Langelier Index | 16589 | -0.2:+0.2 | -0.3 | SM203 | 0.01 | 4/10/91 |
| 1998 | Saturation Index | 16589 | | 7.7 | SM203 | 0.01 | 4/10/91 |
| 1999 | Stability Index | 16589 | | 7.9 | SM203 | 0.01 | 4/10/91 |
| 2909 | Foaming Agents | 16589 | 0.5 | <0.1 | EPA425.1 | 0.1 | 4/10/91 |
| 9996 | Field DO | 16589 | | | - | 0.1 | |
| 9997 | Field Chlorine | 16589 | | | - | 0.1 | |

Comments:

FLOWERS CHEMICAL LABORATORIES INCORPORATED

ANALYTICAL & CONSULTING CHEMISTS

# CHAIN OF CUSTODY RECORD

| CLIENT | ADDRESS | PHONE |
|---|---|---|
| SSU | | |

| PROJECT NAME | REQUIRED: | DATE |
|---|---|---|
| Sunchase W.P. | ☐ Urgent ☐ Routine | |

| Sample Containers QTY | Preservative | | | | | | | Plastic Containers | | | | | | | Glass Containers | | | | | | | NOTES: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | HNO3 | H2SO4 | HCl | Na2S2O3 | Zn(C2H3O2)/NaOH | NaOH/AscAcid | | 60mL | 125mL | 250mL | 500mL | 1L | 2L | Whirl-Pak Bag | 40mL Vial | 250mL | 500mL | 1L | 2L | 4L | | PO# 22440 |
| 1 | | | | | | | | | | | | | | | | | | | X | | | |
| 1 | | | | | | | | | | | X | X | | | | | | | | | | |
| 1 | X | | | | | | | | | | X | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |

| Kit Relinquished: | Date: Time: | Kit Received: | Date: Time: |
|---|---|---|---|
| Stephen Hunter | | | |

Parameters: Prim Org, Prim. Inorg, Sec., (Tb)

| Laboratory Number | Client Identification/Description |
|---|---|
| 16589 | Point of Entry |
| | Conductivity : 420 |
| | Temp : 76° F |
| | D.O. : 10 mg/l |
| | pH : 7.3 |
| | $Cl_2$ : 1.5 mg/l |

| | | Date | Time |
|---|---|---|---|
| Sample Collection: | | | |
| Transportation: | | | |
| Lab Acceptance: | | 4/2/91 | 1:45 |

Page _____ of _____

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.

481 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984
FAX (407) 260-6110

SSU SERVICES

**General Offices**
1000 Color Place
Apopka, FL 32703
(407) 880-0058

June 12, 1991

Ms. Marie Carrasquillo
State of Florida
Department of Environmental Regulation
3319 Maguire Boulevard
Suite 232
Orlando, Florida 32803-3767

Re: Re-sample for Drinking Water Analysis

This letter is in response to a telephone conversation with Barbara Browning, Department of Environmental Regulation in Orlando this date. I am enclosing per her request, re-sample analysis which exceeded the MCL for the following systems:

Suncrest ID #8431413 - Manganese

Chuluota ID #3590186 - Turbidity & Manganese

Tropical Park #2 ID #3491958 - Manganese

Pine Ridge ID #3494292 - Manganese & Iron

Bay Lake Estates ID #3490090 - Manganese

Should you require any further information, please do not hesitate to contact me.

Your continued cooperation is greatly appreciated.

Sincerely,

SSU Services

Sam Sparks
Division Supervisor

cc: Charles Sweat
Clara Dozier
Mel Fisher
File

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
1000 Color Place
Apopka,FL 32703

Date Reported: May24 1991
PO Number: 22691
PO Number 103 Suncrest
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 5/6
Date Received: May10 1991 Lab Number : 16884

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16884 |
|---|---|---|---|---|---|
| Calcium | mg/L | 0.1 | | | - |
| Chloride | mg/L | 0.015 | | | - |
| Carbonate_CaCO3 | mg/L | 0.1 | | | - |
| Hydroxide_CaCO3 | mg/L | 0.1 | | | - |
| Copper | mg/L | 0.005 | | | - |
| Bicarbonate _CaCO3 | mg/L | 0.1 | | | - |
| Carbonate_Alkalinity | mg/L | 0.1 | | | - |
| Hydrogen_Sulfide | mg/L | 0.5 | | | - |
| Iron | mg/L | 0.01 | | | - |
| Magnesium | mg/L | 0.01 | | | - |
| Manganese | mg/L | 0.005 | 105 | 1.33 | 0.007 |
| Sulfate | mg/L | 0.2 | | | - |
| Zinc | mg/L | 0.001 | | | - |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P.O. BOX 160-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984
FAX (407) 260-6110

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU
1000 Color Place
Apopka,FL 32703

Date Reported: May24 1991
PO Number: 22691
PO Number 103 Suncrest
FDHRS Lab# : 83139
FDER Lab# : EB3018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 5/8
Date Received: May10 1991 Lab Number : 16885

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16885 |
|---|---|---|---|---|---|
| Calcium | mg/L | 0.1 | | | - |
| Chloride | mg/L | 0.015 | | | - |
| Carbonate_CaCO3 | mg/L | 0.1 | | | - |
| Hydroxide_CaCO3 | mg/L | 0.1 | | | - |
| Copper | mg/L | 0.005 | | | - |
| Bicarbonate _CaCO3 | mg/L | 0.1 | | | - |
| Carbonate_Alkalinity | mg/L | 0.1 | | | - |
| Hydrogen_Sulfide | mg/L | 0.5 | | | - |
| Iron | mg/L | 0.01 | | | - |
| Magnesium | mg/L | 0.01 | | | - |
| Manganese | mg/L | 0.005 | 105 | 1.33 | 0.01 |
| Sulfate | mg/L | 0.2 | | | - |
| Zinc | mg/L | 0.001 | | | - |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson B. Flowers, Ph.D.
Technical Director

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984
FAX (407) 260-6110

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
1000 Color Place
Apopka,FL 32703

Date Reported: May24 1991
PO Number: 22691
PO Number 103 Suncrest
FDHRS Lab# : 83139
FDER Lab# : EB3018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 5/9
Date Received: May10 1991 Lab Number : 16886

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16886 |
|---|---|---|---|---|---|
| Calcium | mg/L | 0.1 | | | - |
| Chloride | mg/L | 0.015 | | | - |
| Carbonate_CaCO3 | mg/L | 0.1 | | | - |
| Hydroxide_CaCO3 | mg/L | 0.1 | | | - |
| Copper | mg/L | 0.005 | | | - |
| Bicarbonate _CaCO3 | mg/L | 0.1 | | | - |
| Carbonate_Alkalinity | mg/L | 0.1 | | | - |
| Hydrogen_Sulfide | mg/L | 0.5 | | | - |
| Iron | mg/L | 0.01 | | | - |
| Magnesium | mg/L | 0.01 | | | - |
| Manganese | mg/L | 0.005 | 105 | 1.33 | 0.018 |
| Sulfate | mg/L | 0.2 | | | - |
| Zinc | mg/L | 0.001 | | | - |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984
FAX (407) 260-6110

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 943 1413
Public Water System Name Sunset
Public Water System Type (check one):
( )Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyzi Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___: Secondary Chemical_X_; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number 16886
Sample Location (be specific): _____
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
( )Raw ( )Well ( )Resample
( )Special_____
Sampler Name, Title Phone:_____
_____

**ANALYSIS INFORMATION**
Extraction Date ___/___/____
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTEI Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___: Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature:_____

Name **Dr Jefferson S Flowers**

Title **Technical Director**

Laboratory **Flowers Chemical Laboratories,Inc.**

Date 5/23/91

Mail Results to the
Appropnate DER or ACPHU Office:
_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 06/01/8 () Satisfactory () Unsatisfactory

Secondary Chemical Analysis
17-550.320
(PWS031)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1016 | Calcium | 16884 | | | EPA215.1 | 0.1 | |
| 1017 | Chloride | 16884 | 250 | | EPA300.0 | 0.015 | |
| 1019 | Carbonate CaCO3 | 16884 | | | SM314A | 0.1 | |
| 1021 | Hydroxide CaCO3 | 16884 | | | SM406C | 0.1 | |
| 1022 | Copper | 16884 | 1 | | EPA220.1 | 0.005 | |
| 1023 | Bicarbonate CaCO3 | 16884 | | | SM406C | 0.1 | |
| 1026 | Carbonate Alkalinity | 16884 | | | SM406C | 0.1 | |
| 1027 | Hydrogen Sulfide | 16884 | | | EPA376.1 | 0.5 | |
| 1028 | Iron | 16884 | 0.3 | | EPA236.1 | 0.01 | |
| 1031 | Magnesium | 16884 | | | EPA242.1 | 0.01 | |
| 1032 | Manganese | 16884 | 0.05 | .00700 | EPA243.1 | 0.005 | 5/23/91 |
| 1055 | Sulfate | 16884 | 250 | | EPA300.0 | 0.200 | |
| 1095 | Zinc | 16884 | 5 | | EPA289.1 | 0.001 | |
| 1901 | Carbon Dioxide | 16884 | | | SM406C | 0.1 | |
| 1905 | Color | 16884 | 15 | | EPA110.1 | 5 | |
| 1915 | Total Hardness | 16884 | | | SM314A | 0.1 | |
| 1917 | NCH as CaCO3 | 16884 | | | SM314A | 0.1 | |
| 1920 | Odor(TON) | 16884 | 3 | | EPA140.1 | 1 | |
| 1924 | Field pH | 16884 | 6.5-8.5 | | EPA150.1 | 0.01 | |
| 1925 | Lab pH | 16884 | 6.5-8.5 | | EPA150.1 | 0.01 | |
| 1926 | Field Conductivity | 16884 | | | - | 0.01 | |
| 1927 | Total Alkalinity | 16884 | | | EPA310.1 | 0.1 | |
| 1930 | TDS | 16884 | 500 | | EPA160.1 | 2.5 | |
| 1931 | Phenolphthalein Alk. | 16884 | | | EPA310.1 | 0.1 | |
| 1996 | Field Temp. (C) | 16884 | | | - | | 1 |
| 1997 | Langelier Index | 16884 | -0.2:+0.2 | | SM203 | 0.01 | |
| 1998 | Saturation Index | 16884 | | | SM203 | 0.01 | |
| 1999 | Stability Index | 16884 | | | SM203 | 0.01 | |
| 2909 | Foaming Agents | 16884 | 0.5 | | EPA425.1 | 0.1 | |
| 9996 | Field DO | 16884 | | | - | 0.1 | |
| 9997 | Field Chlorine | 16884 | | | - | 0.1 | |

Comments:

Secondary Chemical Analysis
17-550.320
(PWS031)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1016 | Calcium | 16885 | | | EPA215.1 | 0.1 | |
| 1017 | Chloride | 16885 | 250 | | EPA300.0 | 0.015 | |
| 1019 | Carbonate CaCO3 | 16885 | | | SM314A | 0.1 | |
| 1021 | Hydroxide CaCO3 | 16885 | | | SM406C | 0.1 | |
| 1022 | Copper | 16885 | 1 | | EPA220.1 | 0.005 | |
| 1023 | Bicarbonate CaCO3 | 16885 | | | SM406C | 0.1 | |
| 1026 | Carbonate Alkalinity | 16885 | | | SM406C | 0.1 | |
| 1027 | Hydrogen Sulfide | 16885 | | | EPA376.1 | 0.5 | |
| 1028 | Iron | 16885 | 0.3 | | EPA236.1 | 0.01 | |
| 1031 | Magnesium | 16885 | | | EPA242.1 | 0.01 | |
| 1032 | Manganese | 16885 | 0.05 | .0100 | EPA243.1 | 0.005 | 5/23/91 |
| 1055 | Sulfate | 16885 | 250 | | EPA300.0 | 0.200 | |
| 1095 | Zinc | 16885 | 5 | | EPA289.1 | 0.001 | |
| 1901 | Carbon Dioxide | 16885 | | | SM406C | 0.1 | |
| 1905 | Color | 16885 | 15 | | EPA110.1 | 5 | |
| 1915 | Total Hardness | 16885 | | | SM314A | 0.1 | |
| 1917 | NCH as CaCO3 | 16885 | | | SM314A | 0.1 | |
| 1920 | Odor(TON) | 16885 | 3 | | EPA140.1 | 1 | |
| 1924 | Field pH | 16885 | 6.5-8.5 | | EPA150.1 | 0.01 | |
| 1925 | Lab pH | 16885 | 6.5-8.5 | | EPA150.1 | 0.01 | |
| 1926 | Field Conductivity | 16885 | | | - | 0.01 | |
| 1927 | Total Alkalinity | 16885 | | | EPA310.1 | 0.1 | |
| 1930 | TDS | 16885 | 500 | | EPA160.1 | 2.5 | |
| 1931 | Phenolphthalein Alk. | 16885 | | | EPA310.1 | 0.1 | |
| 1996 | Field Temp. (C) | 16885 | | | - | | 1 |
| 1997 | Langelier Index | 16885 | -0.2:+0.2 | | SM203 | 0.01 | |
| 1998 | Saturation Index | 16885 | | | SM203 | 0.01 | |
| 1999 | Stability Index | 16885 | | | SM203 | 0.01 | |
| 2909 | Foaming Agents | 16885 | 0.5 | | EPA425.1 | 0.1 | |
| 9996 | Field DO | 16885 | | | - | 0.1 | |
| 9997 | Field Chlorine | 16885 | | | - | 0.1 | |

Comments:

Secondary Chemical Analysis
17-550.320
(PWS031)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1016 | Calcium | 16886 | | | EPA215.1 | 0.1 | |
| 1017 | Chloride | 16886 | 250 | | EPA300.0 | 0.015 | |
| 1019 | Carbonate CaCO3 | 16886 | | | SM314A | 0.1 | |
| 1021 | Hydroxide CaCO3 | 16886 | | | SM406C | 0.1 | |
| 1022 | Copper | 16886 | 1 | | EPA220.1 | 0.005 | |
| 1023 | Bicarbonate CaCO3 | 16886 | | | SM406C | 0.1 | |
| 1026 | Carbonate Alkalinity | 16886 | | | SM406C | 0.1 | |
| 1027 | Hydrogen Sulfide | 16886 | | | EPA376.1 | 0.5 | |
| 1028 | Iron | 16886 | 0.3 | | EPA236.1 | 0.01 | |
| 1031 | Magnesium | 16886 | | | EPA242.1 | 0.01 | |
| 1032 | Manganese | 16886 | 0.05 | .0180 | EPA243.1 | 0.005 | 5/23/91 |
| 1055 | Sulfate | 16886 | 250 | | EPA300.0 | 0.200 | |
| 1095 | Zinc | 16886 | 5 | | EPA289.1 | 0.001 | |
| 1901 | Carbon Dioxide | 16886 | | | SM406C | 0.1 | |
| 1905 | Color | 16886 | 15 | | EPA110.1 | 5 | |
| 1915 | Total Hardness | 16886 | | | SM314A | 0.1 | |
| 1917 | NCH as CaCO3 | 16886 | | | SM314A | 0.1 | |
| 1920 | Odor(TON) | 16886 | 3 | | EPA140.1 | 1 | |
| 1924 | Field pH | 16886 | 6.5-8.5 | | EPA150.1 | 0.01 | |
| 1925 | Lab pH | 16886 | 6.5-8.5 | | EPA150.1 | 0.01 | |
| 1926 | Field Conductivity | 16886 | | | - | 0.01 | |
| 1927 | Total Alkalinity | 16886 | | | EPA310.1 | 0.1 | |
| 1930 | TDS | 16886 | 500 | | EPA160.1 | 2.5 | |
| 1931 | Phenolphthalein Alk. | 16886 | | | EPA310.1 | 0.1 | |
| 1996 | Field Temp. (C) | 16886 | | | - | | 1 |
| 1997 | Langelier Index | 16886 | -0.2:+0.2 | | SM203 | 0.01 | |
| 1998 | Saturation Index | 16886 | | | SM203 | 0.01 | |
| 1999 | Stability Index | 16886 | | | SM203 | 0.01 | |
| 2909 | Foaming Agents | 16886 | 0.5 | | EPA425.1 | 0.1 | |
| 9996 | Field DO | 16886 | | | - | 0.1 | |
| 9997 | Field Chlorine | 16886 | | | - | 0.1 | |

Comments:

CHEMICAL LABORATORIES INCORPORATED

FDER Lab 850018
FDHRS Lab 80130
NCDEHNR Lab 296
SCDHEC Lab 99018

ANALYTICAL & CONSULTING CHEMISTS
CHAIN OF CUSTODY RECORD
DRINKING WATER 17-550

(1) Client: SSU
(2) Address:
(3) Phone:
(4) Public Drinking Water ID #:
(5) Public Water System Name:
(6) Project # 106 Suncrest
(7) PO# 221091
(8) Public Water System Type: ( ) Community ( ) Non-Community ( ) Special Non-Community

| | Preservative | | | Plastic Containers | | | | | | Glass Containers | | | | | | NOTES: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | K HNO3 | ZnOAC NaOH | | 60ml | 125ml | 250ml | 500ml | 1L | Whirl-Pac Bag | 40ml | 250ml | 500ml | 1L | 2L | 4L | (9A) Turn Around Time: 10 Working Days: 5 Working Days: 3 Working Days: 1 Working Day: Other: |
| 9) | 3 | | | | X | | | | | | | | | | | |

(11) Kit Relinquished: (10) Date: (10) Time:
( ) Kit Received: ( ) Date: ( ) Time:

2) SAMPLE INFORMATION; SAMPLE DATE: MONTH____ DATE____ YEAR____
SAMPLE TYPE ( check all applicable): ( ) check, ( ) regular distribution
( ) composite, ( ) clerance, ( ) max residence time, ( ) plant tap,
( ) raw, ( ) well, ( ) resample_____, ( ) special_____
SAMPLER'S NAME:_____ TITLE:_____ PHONE:_____
SAMPLER'S SIGNATURE:_____
NOTES:

③ MN

(13) Parameter Group(s) Analysed: Turbidity__; Inorganic__; Trihalomethane__; Volatile Organic__; Organic Chemical__; Secondary Chemical__; Radiological__; Unregulated Organic Purgeable__; Unregulated Organic Pesticide__; Unregulated Base Neutral Extractable__; Unregulated Acid Extractable__

| (14) Laboratory Number | | (15) Client Sample Identification |
|---|---|---|
| 16884 | #1 | 5/6 |
| 16885 | #2 | 5/8 |
| 16886 | #3 | 5/9 |
| | #4 | |
| | #5 | |
| | #6 | |
| | #7 | |
| | #8 | |
| | #9 | |
| | #10 | |

| | | Date | Time |
|---|---|---|---|
| (16) Collectors Signature: | | | |
| (17) Transporters Signature: | | | |
| (19) Lab Acceptance By: | | 5/10/91 | 8:30 |

OVER FOR INSTRUCTIONS FOR COMPLETION

SSU
SERVICES

**General Offices**
1000 Color Place
Apopka, FL 32703
(407) 880-0058

July 30, 1991

Ms. Marie Carrasquillo
State of Florida
Department of Environmental Regulation
3319 Maguire Boulevard
Suite 232
Orlando, Florida 32803-3767

Re: Re-sample Analysis for Suncrest WTP
ID # 3431413

Dear Ms. Carrasquillo,

Please find enclosed, analysis results for Manganese for the Suncrest water treatment plant.

Your cooperation and assistance is appreciated.

Sincerely,

SSU Services

Sam Sparks
Division Manager

SS/jlm

cc: Charles Sweat
Frank Sanderson
Mel Fisher
Clara Dozier
File

ORLANDO LABORATORIES INC

P.O. Box 149127 • Orlando, Florida 32814

REPORT OF ANALYSIS

Southern States Utilities
1000 Color Place
Apopka, FL 32703

Attn: Sam Sparks

Work Order # : 91-06-264
Date Received: 06/18/91
Date Reported: 06/25/91
OLI Contact: L_BALTZLEY

Work ID: 106 Suncrest W.P.
Samples collected by: Client
Total Samples: 1

| SAMPLE IDENTIFICATION | TEST CODES and NAMES used on this report |
|---|---|
| 01 MN | MN_ICP Manganese |

OLI Florida Department of Health & Rehabilitative Service Identification Numbers are:
Drinking Water Certification Number 83141, Environmental Certification Number E83033

Respectfully Submitted,
ORLANDO LABORATORIES, INC.

John Hobbs
LABORATORY DIRECTOR

Eric Malarek
QUALITY CONTROL

ORLANDO LABORATORIES,INC. REPORT OF ANALYSIS Work Order # 91-06-264
Received: 06/18/91 Results by Sample

| | |
|---|---|
| SAMPLE ID MN | SAMPLE # 01A |
| DATE COLLECTED 06/18/91 09:00:00 | MATRIX WATER |

| | | |
|---|---|---|
| MN_ICP | <0.030 | |
| | mg/l | |

Southern States Utilities
Attn: Sam Sparks

Report No: 91-06-264
Page No: 3

QUALITY CONTROL DATA SHEET

| PARAMETER | DUPLICATES % DIFFERENCE | SPIKES % RECOVERY | DATE | ANALYST |
|---|---|---|---|---|
| Manganese | <1 | 95 | 06/19/91 | TWB |

**ORLANDO LABORATORIES, INC.**
P.O. Box 149127, Orlando, FL 32814
(407) 896-6645 FAX (407) 898-6586

# CHAIN-OF-CUSTODY RECORD

(INSTRUCTIONS ON BACK)

Page _____ of _____

| 1 INVOICE TO (COMPANY AND INDIVIDUAL) / ADDRESS (CITY, STATE, ZIP) | 2 CONTACT PERSON/PHONE # INVOICE | 3 OLI WORK ORDER # (LAB USE) |
|---|---|---|
| Southern States Utilities, 1000 Color Pl, Apopka, FL | Sam Sparks | 9106264 |
| **4 ORIGINAL REPORT TO (COMPANY AND INDIVIDUAL) / ADDRESS (CITY, STATE, ZIP)** | **5 CONTACT PERSON/PHONE # REPORT** | **6 RD NUMBER (LAB USE)** |
| Same | 880-0055 | |
| **7 (OPTIONAL) ADDITIONAL REPORTS SENT TO / ADDRESS (CITY, STATE, ZIP)** | **17 NUMBER OF CONTAINERS** | **18 REQUESTED ANALYSIS** |
| **8 CLIENT PROJECT NAME** | **9 CLIENT PROJECT #** | |
| Sweetest W.P. | 106 | |

| 10 SAMPLE IDENTIFICATION | 11 DATE/TIME | 12 COMP | GRAB | WATER | SOIL | OTHER | 13 SAMPLE DESCRIPTION | REMARKS 19 |
|---|---|---|---|---|---|---|---|---|
| Mn | 4/18-900A | | X | | X | | | |

| TRANSFER NUMBER | 14 RELINQUISHED BY | 15 DATE/TIME | 16 ACCEPTED BY |
|---|---|---|---|
| 1st | [signature] | 4/18 15:15 | Ruth Hemmicke |
| 2nd | | | |
| 3rd | | | |

| 20 ADDITIONAL REMARKS | 21 COOLER #'s |
|---|---|
| PO# 107591 | |

22 SAMPLER'S SIGNATURE [signature]

ORIGINAL - LAB
YELLOW - FILE
PINK - CLIENT

0921

ORLANDO LABORATORIES INC.

P.O. Box 149127 • Orlando, Florida 32814

REPORT OF ANALYSIS

Southern States Utilities
1000 Color Place
Apopka, FL 32703

Attn: Sam Sparks

Work Order # : 91-06-212
Date Received: 06/13/91
Date Reported: 06/21/91
OLI Contact: L_BALTZLEY

Work ID: 106 Suncrest Water Resample
Samples collected by: Client
Total Samples: 2

| SAMPLE IDENTIFICATION | TEST CODES and NAMES used on this report |
|---|---|
| 01 1 | MN_ICP Manganese |
| 02 2 | |

OLI Florida Department of Health & Rehabilitative Service Identification Numbers are:
Drinking Water Certification Number 83141, Environmental Certification Number E83033

Respectfully Submitted,
ORLANDO LABORATORIES, INC.

John Hobbs
LABORATORY DIRECTOR

Eric Malarek
QUALITY CONTROL

ORLANDO LABORATORIES,INC.
Received: 06/13/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-06-212

| | |
|---|---|
| SAMPLE ID 1 Point of Entry | SAMPLE # 01A |
| DATE COLLECTED 06/11/91 15:30:00 | MATRIX WATER |
| MN_ICP <0.030 mg/l | |

| | |
|---|---|
| SAMPLE ID 2 Point of Entry | SAMPLE # 02A |
| DATE COLLECTED 06/13/91 09:30:00 | MATRIX WATER |
| MN_ICP <0.030 mg/l | |

Southern States Utilities
Attn: Sam Sparks

Report No: 91-06-212
Page No: 3

## QUALITY CONTROL DATA SHEET

| PARAMETER | DUPLICATES % DIFFERENCE | SPIKES % RECOVERY | DATE | ANALYST |
|---|---|---|---|---|
| Manganese | 1 | 94 | 06/16/91 | TWB |

Clare

Serving Florida Since 1960

# Southern States Utilities, Inc.

1000 COLOR PLACE
APOPKA FLORIDA 32703

TELEPHONE 407-880-0100
TOLL FREE 1-800-432-4501

May 9, 1989

Mr. Carlos DeAquilar, P.E.
State of Florida
Department of Environmental Regulation
3319 Maguire Blvd. Suite 232
Orlando, Florida 32803-3767

Orange Cty

Re: 17-550 Regulated Volatiles and EDB Quarterly Sample.
University Shores/Suncrest Water System.

Dear Mr. DeAquilar:

Enclosed you will find the results for the ~~second~~ First quarter Regulated Volatiles and EDB as per 17-550 for the above water system. Please make note in your records.

Thank you for your cooperation.

Sincerely,

SOUTHERN STATES UTILITIES, INC.

Aaron Perlowich
Senior Region Manager
East Central Division

AP/at

cc: Charles Sweat
Bill Becker
Don Corder
File

Enclosure

MAY 31 1989
463

ORLANDO LABORATORIES INC

P.O. Box 149127 • Orlando, Florida 32814 • (407) 896-6645

RECEIVED MAY 9 1989

# REPORT OF ANALYSIS

Southern States Utilities
Attn: Aaron Perlowich
1000 Color Place
Apopka, FL 32703

Report No: 89-03-196
Invoice No: 2953
OLI Contact: Joyce Casper
Date Received: 03/20/89
Date Reported: 04/28/89

Authorization: Chain of Custody form received from client on 03/20/89. Sampling information is based on data supplied by client.
Type of Sample: Water
No. of Samples: 3
Work ID: University Shore/Suncrest
Sample ID: 01 Composite Well 1-4
02 Method Blank
03 Trip Blank

Test Codes and Names used on this report:

504R EDB
524R DER 17-350 Regulated Volatiles

Respectfully submitted,
ORLANDO LABORATORIES, INC.

Laboratory Manager

Quality Control

OLI Florida Department of Health and Rehabilitative Services Identification Numbers are: Drinking Water Certification - #83141. Environmental Certification - #E83033.

*The Analytical Specialists*

SAMPLE ID COMPOSITE WELL 1-4 FRACTION 01A TEST CODE 504R NAME EDB
Date & Time Collected 03/20/89 15:00:00 Category WATER

DATE EXTRACTED 03/22/89
SAMPLE TYPE WATER DATE RUN 03/22/89

| | RESULT | FLAG |
|---|---|---|
| EDB | 0.02 | U |

UNITS UG/L CONC FACTOR 1
ANALYST JW

U = indicates the compound was analysed for, but not detected.
The numerical value preceeding 'U' is the limit of
detection for that compound, based on dilution
J = indicates an estimated trace value.

0027

SAMPLE ID COMPOSITE WELL 1-4 FRACTION 01A TEST CODE 524R NAME DER 17-550 Regul volatiles
Date & Time Collected 03/20/89 15:00:00 Category WATER

SAMPLE TYPE WATER DATE EXTRACTED N/A
DATE RUN 03/27/89

| | RESULT | FLAG |
|---|---|---|
| p-Dichlorobenzene | 0.5 | U |
| 1,1-Dichloroethene | 0.5 | U |
| Trichloroethene | 0.5 | U |
| Tetrachloroethene | 0.5 | U |
| Carbon Tetrachloride | 0.5 | U |
| Vinyl Chloride | 0.5 | U |
| 1,1,1-Trichloroethane | 0.5 | U |
| 1,2-Dichloroethane | 0.5 | U |
| Benzene | 0.5 | U |

---

| SURROGATES | %RECOVERY |
|---|---|
| 1,2-Dichloroethane (SS1) | 74.0 |
| Toluene-d8 (SS2) | 104.0 |
| Bromofluorobenzene (SS3) | 87.0 |

UNITS ug/l CONC FACTOR 1
ANALYST DMC

U = indicates the compound was analysed for, but not detected. The numerical value preceeding 'U' is the limit of detection for that compound, based on dilution
J = indicates an estimated trace value.

0928

SAMPLE ID **METHOD BLANK** FRACTION **02A** TEST CODE **504R** NAME **EDB**
Date & Time Collected **not specified** Category **WATER**

DATE EXTRACTED **03/22/89**
SAMPLE TYPE **WATER** DATE RUN **03/22/89**

| | RESULT | FLAG |
|---|---|---|
| EDB | **0.02** | **U** |

UNITS **ug/l** CONC FACTOR **1**
ANALYST **RM**

U = indicates the compound was analysed for, but not detected.
The numerical value preceeding 'U' is the limit of
detection for that compound, based on dilution
J = indicates an estimated trace value.

0929

SAMPLE ID METHOD BLANK FRACTION 02A TEST CODE 524R NAME DER 17-550 Requl volatiles
Date & Time Collected not specified Category WATER

DATE EXTRACTED N/A
SAMPLE TYPE WATER DATE RUN 03/27/89

| | RESULT | FLAG |
|---|---|---|
| p-Dichlorobenzene | 0.5 | U |
| 1,1-Dichloroethene | 0.5 | U |
| Trichloroethene | 0.5 | U |
| Tetrachloroethene | 0.5 | U |
| Carbon Tetrachloride | 0.5 | U |
| Vinyl Chloride | 0.5 | U |
| 1,1,1-Trichloroethane | 0.5 | U |
| 1,2-Dichloroethane | 0.5 | U |
| Benzene | 0.5 | U |

---

| SURROGATES | %RECOVERY |
|---|---|
| 1,2-Dichloroethane (SS1) | 78.0 |
| Toluene-d8 (SS2) | 102.0 |
| Bromofluorobenzene (SS3) | 89.0 |

UNITS ug/l CONC FACTOR 1
ANALYST DMC

U = indicates the compound was analysed for, but not detected. The numerical value preceeding 'U' is the limit of detection for that compound, based on dilution
J = indicates an estimated trace value.

0930

FRACTION AND TEST CODES FOR WORK NOT REPORTED ELSEWHERE

03A | NOTEST

Southern States Utilities
Attn: Aaron Perlowich

Report No: 89-03-166 (2993)

## QUALITY CONTROL DATA SHEETS

| PARAMETER | DUPLICATES % DIFFERENCE | SPIKES % RECOVERY | DATE | ANALYST |
|---|---|---|---|---|
| EDB | 1 | 93/94 | 03/22/89 | RAM |
| 1,1-Dichloroethene | <1 | 92/92 | 03/20/89 | DMC |
| Trichloroethene | 19 | 96/116 | 03/20/89 | DMC |
| Benzene | 8 | 76/82 | 03/20/89 | DMC |
| Toluene | 7 | 86/92 | 03/20/89 | DMC |
| Chlorobenzene | 6 | 92/98 | 03/20/89 | DMC |

Orlando Laboratories Inc. Page 1 of 2

| Client Project #: | RSI: 1461 | CHAIN of CUSTODY | RSI DATE: 3/29/89 | Project #: 8903/86 |
|---|---|---|---|---|
| Client: Southern States Util | Address: 1010 Cedar Place | | | Phone: |
| Site Name and Location: University Shores - Water Plant | | | | |
| Samples Collected by: Don Conder | | | | |

| lab use | SAMPLE IDENTIFICATION | total # bottles | sample type (circle) | COLLECTION DATE + TIME | 17-55(40) | | | REQUIRED ANALYSIS | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | in well 1 | 6 | (water) soil (grab) comp other | 3-10-89 (1500) | X | | | | | | | | | |
| 2 | well 2 | 6 | (water) soil (grab) comp other | " " | X | | | | | | | | | |
| | | | water soil grab comp other | | | | | | | | | | | |
| | | | water soil grab comp other | | | | | | | | | | | |
| | | | water soil grab comp other | | | | | | | | | | | |
| | | | water soil grab comp other | | | | | | | | | | | |
| | | | water soil grab comp other | | | | | | | | | | | |
| | | | water soil grab comp other | | | | | | | | | | | |
| | | | water soil grab comp other | | | | | | | | | | | |
| | | | water soil grab comp other | | | | | | | | | | | |
| | | | water soil grab comp other | | | | | | | | | | | |
| | | | water soil grab comp other | | | | | | | | | | | |
| | | | water soil grab comp other | | | | | | | | | | | |
| | | | water soil grab comp other | | | | | | | | | | | |
| | | | water soil grab comp other | | | | | | | | | | | |

| RELINQUISHED BY | DATE + TIME | RECEIVED BY | DATE + TIME |
|---|---|---|---|
| Donald B. Conder | 3-20-89 | | 3/21/89 0521 |
| | | | |

Note: University Shores & Summit Plants can be...

0933

Orlando Laboratories Inc.

Page 2 of 2

| Client Project #: | RB#: | CHAIN of CUSTODY | DUE DATE: 3/29/89 | Project #: 8903186 |
|---|---|---|---|---|
| Client: Southern States U.E.I. | Address: 1000 Cobb Place | | | Phone: 976-6100 |
| Site Name and Location: Suncrest Water Mains | | | | |
| Samples Collected by: Dennis Carlin | | | | |

| Lab use | SAMPLE IDENTIFICATION | Total # bottles | sample type (circle) | COLLECTION DATE + TIME | 17-Tot Pest | REQUIRED ANALYSIS |
|---|---|---|---|---|---|---|
| 3 | Well 1 | 16 | water soil grab comp other | 3-29-89 (1100) | X | |
| 4 | Well 2 | 6 | water soil grab comp other | 1 1 | X | |
| | | | water soil grab comp other | | | |
| | | | water soil grab comp other | | | |
| | | | water soil grab comp other | | | |
| | | | water soil grab comp other | | | |
| | | | water soil grab comp other | | | |
| | | | water soil grab comp other | | | |
| | | | water soil grab comp other | | | |
| | | | water soil grab comp other | | | |
| | | | water soil grab comp other | | | |
| | | | water soil grab comp other | | | |
| | | | water soil grab comp other | | | |
| | | | water soil grab comp other | | | |
| | | | water soil grab comp other | | | |

| RELINQUISHED BY | DATE + TIME | RECEIVED BY | DATE + TIME |
|---|---|---|---|
| Dennis G. Carlin | 3-30-89 | | |
| | | | 3/30/89 1538 |

Note: University Shores & Suncrest Plants can be

0934

# Client Contact, Quotation and Kit Request

| Client: D State | Date: 3/20/85 | R.B. # 1461JC |
|---|---|---|
| Phone # | / FAX # | |

| | SEND INVOICE TO | SEND REPORT TO |
|---|---|---|
| Company | | |
| Address | | |
| Attn. of | | |
| | PURCHASE ORDER # / NONE | PROJECT NUMBER / NONE |

REQUEST: Resampling
89-02-188
University Shores
Sun Crest
missed holding
times on 524's

| Samples Will Be Arriving: | RUSH IN # OF DAYS _____ / NONE |
|---|---|
| Need Results By: Verbals / FAX / Hardcopy | |

○ QUOTATION / ○ ANALYSIS REQUEST / ⊖ ANALYSIS AND KIT REQUEST

| PARAMETERS | PRICE | SEND KITS TO: |
|---|---|---|
| 17-550 | | P/u by Client |
| 2 x Primary Organics (Volatiles) 524's | | today |
| | | |
| | | |
| | | |
| | | NEEDED OUT BY |
| | | |
| | | CARRIER |
| | | |
| | | |
| SPECIAL INSTRUCTIONS | | |

ORLANDO LABORATORIES INC

P.O. Box 149127 • Orlando, Florida 32814 • (407) 896-6645

Clone

# REPORT OF ANALYSIS

Southern States Utilities
Attn: Aaron Perlowich
1000 Color Place
Apopka, Florida 32703

Report No: 89-06-127
Invoice No: 54631
OLI Contact: Joyce Casper
Date Received: 06/13/89
Date Reported: 06/28/89
Total Pages: 6

Sample information is based on data supplied by client.

Type of Sample: Water
Work ID: University Shores/Suncrest
Sample ID:
01 Comp #1 consisting of the following samples collected on 06/13/89:
University Shores #1 and #2 collected @ 2:15
Suncrest #1 and #2 collected @ 1:30
02 Method Blank

2nd Qtr

Test Codes and Names used on this report:

| | |
|---|---|
| 504R | EDB |
| 524R | DER 17-550 Regulated Volatiles |

Qualifiers:

U Indicates the compound was analyzed for but not detected. The numerical value preceeding 'U' is the limit of detection for that compound, based on dilution.
J Indicates an estimated value.

Respectfully submitted,
ORLANDO LABORATORIES, INC.

Laboratory Manager

Charlene Hoyt
Data Analyst

/mmc

SAMPLE ID Comp #1 FRACTION 01A TEST CODE 504R NAME EDB
Date & Time Collected 06/13/89 Category WATER

SAMPLE TYPE WATER
UNITS UG/L
ANALYST RAM

DATE EXTRACTED 06/13/89
DATE RUN 06/15/89
DILUTION FACTOR 1
% MOISTURE NA

| | RESULT | FLAG |
|---|---|---|
| EDB | .02 | U |

SAMPLE ID Comp #1 FRACTION 01A TEST CODE 524R NAME DER 17-550 Regul volatiles
Date & Time Collected 06/13/89 Category WATER

SAMPLE TYPE WATER
UNITS UG/L
ANALYST EJP

DATE EXTRACTED NA
DATE RUN 06/16/89
DILUTION FACTOR 1
% MOISTURE NA

| | RESULT | FLAG |
|---|---|---|
| p-Dichlorobenzene | .5 | U |
| 1,1-Dichloroethene | .5 | U |
| Trichloroethene | .5 | U |
| Tetrachloroethene | .5 | U |
| Carbon Tetrachloride | .5 | U |
| Vinyl Chloride | .5 | U |
| 1,1,1-Trichloroethane | .5 | U |
| 1,2-Dichloroethane | .5 | U |
| Benzene | .5 | U |

| SURROGATES | %RECOVERY |
|---|---|
| 1,2-Dichloroethane (SS1) | 97 |
| Toluene-d8 (SS2) | 95 |
| Bromofluorobenzene (SS3) | 90 |

SAMPLE ID Method Blank FRACTION 02A TEST CODE 504R NAME EDB
Date & Time Collected not specified Category METHOD BLANK

SAMPLE TYPE WATER
UNITS UG/L
ANALYST RAM

DATE EXTRACTED 06/13/89
DATE RUN 06/15/89
DILUTION FACTOR 1
% MOISTURE NA

| | RESULT | FLAG |
|---|---|---|
| EDB | .02 | U |

Orlando Lab. REPORT Work Order # 89-06-127
Results by Sample

SAMPLE ID Method Blank FRACTION 02A TEST CODE 524R NAME DER 17-550 Regul volatiles
Date & Time Collected not specified Category METHOD BLANK

SAMPLE TYPE WATER
UNITS UG/L
ANALYST EJP

DATE EXTRACTED NA
DATE RUN 06/16/89
DILUTION FACTOR 1
% MOISTURE NA

| | RESULT | FLAG |
|---|---|---|
| p-Dichlorobenzene | .5 | U |
| 1,1-Dichloroethene | .5 | U |
| Trichloroethane | .5 | U |
| Tetrachloroethene | .5 | U |
| Carbon Tetrachloride | .5 | U |
| Vinyl Chloride | .5 | U |
| 1,1,1-Trichloroethane | .5 | U |
| 1,2-Dichloroethane | .5 | U |
| Benzene | .5 | U |

| SURROGATES | %RECOVERY |
|---|---|
| 1,2-Dichloroethane (SS1) | 97 |
| Toluene-d8 (SS2) | 95 |
| Bromofluorobenzene (SS3) | 90 |

Southern States Utilities
Attn: Aaron Perlowich

Report No: 89-06-127
Invoice No: 54631

## QUALITY CONTROL DATA SHEET

| PARAMETER | DUPLICATES % DIFFERENCE | SPIKES % RECOVERY | DATE | ANALYST |
|---|---|---|---|---|
| Ethylene dibromide | 3 | 67/69 | 06/15/89 | RAM |
| 1,1-Dichloroethene | 25 | 90/116 | 06/17/89 | EJP |
| Trichloroethene | 4 | 106/102 | 06/17/89 | EJP |
| Benzene | 8 | 92/100 | 06/17/89 | EJP |
| Toluene | 2 | 102/104 | 06/17/89 | EJP |
| Chlorobenzene | 4 | 104/100 | 06/17/89 | EJP |

**ORLANDO LABORATORIES, INC.**
P.O. Box 149127, Orlando, FL 32814
(407) 896-6645 FAX (407) 896-6645

# CHAIN-OF-CUSTODY RECORD

Page ____ of ____

N2 00475

| | | | |
|---|---|---|---|
| INVOICE TO: Southern States Util, Inc. | ADDRESS: 1000 Color Place - Apopka, Fla. | CONTACT/PHONE #: 880-0100 | OLI WORK ORDER #: 8906127 |
| REPORT TO: Don Corder | ADDRESS: | | RB NUMBER: 1796 (quote on file) |
| CLIENT PROJECT NAME: University Shores - Suncrest. | CLIENT PROJECT #: | | |
| CLIENT PROJECT LOCATION: | | | |

| LAB USE ONLY | SAMPLE IDENTIFICATION | DATE | TIME | COMP | GRAB | WATER | SOIL | SAMPLE DESCRIPTION | NUMBER OF CONTAINERS | REQUESTED ANALYSIS: 504 - 524 | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Univ. Shores #1 | 6-13 | 2:15 | | ✓ | ✓ | | | 6 | ✓ | |
| | Univ. Shores #2 | 6-13 | 2:15 | | ✓ | ✓ | | | 6 | ✓ | |
| | Suncrest #1 | 6-13 | 1:30 | | ✓ | ✓ | | | 6 | ✓ | |
| | Suncrest #1 | 6-13 | 1:30 | | ✓ | ✓ | | | 6 | ✓ | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

| TRANSFER NUMBER | RELINQUISHED BY | DATE/TIME | ACCEPTED BY | DATE/TIME |
|---|---|---|---|---|
| | Don Corder | 6-13/2:45 | [signature] | 6/13/89 19:55 |
| | | | | |
| | | | | |

ADDITIONAL REMARKS:

Donald B. Corder
SAMPLER'S SIGNATURE

Original - Client
Yellow - Lab

Rev 10/89

0942

Clare

*Serving Florida Since 1960*

*Southern States Utilities, Inc.*

1000 COLOR PLACE
APOPKA FLORIDA 32703

TELEPHONE 407-880-0100
TOLL FREE 1-800-432-4501

August 23, 1989

Ms. Marie Carrasquillo
State of Florida
Department of Environmental Regulations
3319 Maguire Blvd., Suite 232
Orlando, Florida 32803

Re: University Shores/Suncrest, Orange County
VOC's - 3rd Quarter.

Dear Ms. Carrasquillo:

Enclosed you will find results for the 3rd Quarter VOC analysis for the above plant. Please enter this in your records.

Thank you for your cooperation.

Sincerely,
SOUTHERN STATES UTILITIES, INC.

for Aaron Perlowich
Aaron Perlowich
Sr. East Central Region Manager

AP/at

cc: Charles Sweat
Engineering Dept., Apopka Office
Don Corder
File

ORLANDO LABORATORIES INC.

P.O. Box 149127 • Orlando, Florida 32814 • (407) 896-6645

REPORT OF ANALYSIS

Southern States Utilities
1000 Color Place
Apopka. Florida 32703

Attn: Aaron Perlowich

Work Order # : 89-08-107
Date Received: 08/09/89
Date Reported: 08/21/89
OLI Contact: E_HOBBS

Work ID: University Shores Suncrest
Total Samples: 3

Sampling information is based on data supplied by Client

| SAMPLE IDENTIFICATION | TEST CODES and NAMES used on this report |
|---|---|
| 01 Comp #1 | 504R EDB |
| 02 Method Blank | 524R DER 17-550 Regulated VOA |
| 03 Trip Blank | |

Composite #1 consists of the following wells collected 08/09/89:
Well #1 Suncrest collected at 1:00.
Well #2 Suncrest collected at 1:00,
Well #1 University Shores collected at 11:30.
Well #2 University Shores collected at 11:30.

OLI Florida Department of Health & Rehabilitative Service Identification Numbers are:
Drinking Water Certification Number 83141, Environmental Certification Number E83033

Respectfully Submitted.
ORLANDO LABORATORIES, INC.

Victor Kowalski
LABORATORY DIRECTOR

Susan Lukasik
QUALITY CONTROL

*The Analytical Specialists*

Orlando Laboratories,Inc. REPORT OF ANALYSIS Work Order # 89-08-107
Received: 08/09/89 Results by Sample

SAMPLE ID Comp #1
DATE COLLECTED 08/09/89
TEST NAME EDB

SAMPLE# 01A
MATRIX WATER
TEST CODE 504R

SAMPLE TYPE WATER
UNITS ug/l
ANALYST JHN

DATE EXTRACTED 08/14/89
DATE RUN 08/17/89
DILUTION FACTOR 1
% MOISTURE NA

| | RESULT | QUALIFIER |
|---|---|---|
| EDB | 0.02 | U |

Orlando Laboratories,Inc.
Received: 08/09/89

REPORT OF ANALYSIS
Results by Sample

Work Order # 89-08-107

SAMPLE ID Comp-#1
DATE COLLECTED 08/09/89
TEST NAME DER 17-550 Regulated VOA

SAMPLE# 01A
MATRIX WATER
TEST CODE 524R

SAMPLE TYPE WATER
UNITS UG/L
ANALYST EJF

DATE EXTRACTED NA
DATE RUN 8/11/89
DILUTION FACTOR 1
% MOISTURE NA

| | RESULT/QUALIFIER |
|---|---|
| p-Dichlorobenzene | 0.5 U |
| 1,1-Dichloroethene | 0.5 U |
| Trichloroethene | 0.5 U |
| Tetrachloroethene | 0.5 U |
| Carbon Tetrachloride | 0.5 U |
| Vinyl Chloride | 0.5 U |
| 1,1,1-Trichloroethane | 0.5 U |
| 1,2-Dichloroethane | 0.5 U |
| Benzene | 0.5 U |

| SURROGATES | %RECOVERY |
|---|---|
| 1,2-Dichloroethane (DCE) | 101 |
| Toluene-d8 (SSC) | 96 |
| Bromofluorobenzene (BFB) | 109 |

Orlando Laboratories,Inc.
Received: 08/09/89

REPORT OF ANALYSIS
Results by Sample

Work Order # 89-08-107

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME EDB

SAMPLE# 02A
MATRIX METHODBLANK
TEST CODE 5046

SAMPLE TYPE WATER
UNITS ug/l
ANALYST JHW

DATE EXTRACTED 08/14/89
DATE RUN 08/17/89
DILUTION FACTOR 1
% MOISTURE NA

| | RESULT/QUALIFIER |
|---|---|
| EDB | 0.02 U |

Orlando Laboratories,Inc.
Received: 08/09/89

REPORT OF ANALYSIS
Results by Sample

Work Order # 89-08-107

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME OER 17-550 Regulated VOA

SAMPLE# 02A
MATRIX METHODBLANK
TEST CODE 524R

SAMPLE TYPE WATER
UNITS UG/L
ANALYST EJP

DATE EXTRACTED NA
DATE RUN 8/11/89
DILUTION FACTOR 1
% MOISTURE NA

| | RESULT/QUALIFIER |
|---|---|
| p-Dichlorobenzene | 0.5 U |
| 1,1-Dichloroethene | 0.5 U |
| Trichloroethene | 0.5 U |
| Tetrachloroethene | 0.5 U |
| Carbon Tetrachloride | 0.5 U |
| Vinyl Chloride | 0.5 U |
| 1,1,1-Trichloroethane | 0.5 U |
| 1,2-Dichloroethane | 0.5 U |
| Benzene | 0.5 U |

| SURROGATES | %RECOVERY |
|---|---|
| 1,2-Dichloroethane (SS1) | 80 |
| Toluene-d8 (SS2) | 98 |
| Bromofluorobenzene (SS3) | 90 |

Orlando Laboratories,Inc. REPORT OF ANALYSIS Work Order # 89-08-107
Received: 08/09/89 NonReported Work

FRACTION AND TEST CODES FOR WORK NOT REPORTED ELSEWHERE

03A : NOTEST

# MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 08-18-1989

LAB SAMPLE # : 8908140-5A
ANALYSIS DATE : 08/17/89

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| ethylene dibromide | 100 | 0 | 70 | 70 | 69 | 69 | 1 |

COMMENTS :

ORLANDO LABORATORIES, INC.
820 HUMPHRIES AVE.
ORLANDO FL 32703
407-896-6645

## MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 08-14-1989

LAB SAMPLE # : 89-08-085-4
ANALYSIS DATE : 8/11/89

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| 1,1-dichloroethene | 50 | 0 | 56 | 112 | 59 | 118 | 5 |
| trichloroethene | 50 | 0 | 56 | 112 | 66 | 132 | 16 |
| benzene | 50 | 0 | 41 | 82 | 44 | 88 | 7 |
| toluene | 50 | 0 | 40 | 80 | 45 | 90 | 12 |
| chlorobenzene | 50 | 0 | 47 | 94 | 52 | 104 | 10 |

COMMENTS :

ORLANDO LABORATORIES INC.
820 HUMPHRIES AVE.
ORLANDO FL 32803
407-896-6645

End of Report

**ORLANDO LABORATORIES, INC.**
P.O. Box 149127, Orlando, FL 32814
(407) 896-6645 FAX (407) 898-6588

# CHAIN-OF-CUSTODY RECORD

Page ____ of ____ № 01123

| | | | |
|---|---|---|---|
| INVOICE TO: Southern States Util. | ADDRESS: 1000 Color Place – Apopka, Fla | CONTACT/PHONE #: 880-0100 | OLI WORK ORDER #: 8808107 |
| REPORT TO: Don Corder | ADDRESS: | | RB NUMBER: 1981 |
| CLIENT PROJECT NAME: Univ. Shores – Summerhill | CLIENT PROJECT #: | | |
| CLIENT PROJECT LOCATION: Univ. Shores & Summerhill Water Plants | | | |

| LAB USE ONLY | SAMPLE IDENTIFICATION | DATE | TIME | COMP | GRAB | WATER | SOIL | SAMPLE DESCRIPTION | NUMBER OF CONTAINERS | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| | Well #1 Summerhill | 8-9 | 1000 | | ✓ | ✓ | | | 4 | |
| | Well #2 Summerhill | 8-9 | 1200 | | ✓ | ✓ | | | 4 | |
| | Well #1 Univ. Shores | 8-9 | 1130 | | ✓ | ✓ | | | 4 | Composite into 1 |
| | Well #2 Univ. Shores | 8-9 | 1130 | | ✓ | ✓ | | | 4 | |

| TRANSFER NUMBER | RELINQUISHED BY | DATE/TIME | ACCEPTED BY | DATE/TIME |
|---|---|---|---|---|
| | Don Corder | 8-9-2125 PM | | 8/9 14:25 |

ADDITIONAL REMARKS: 3rd QTR VOC's

Donald B. Corder
SAMPLER'S SIGNATURE

Original - Client
Yellow - Lab

Rev'd 03.89

0952

Serving Florida Since 1960

Southern States Utilities, Inc.

1000 COLOR PLACE
APOPKA, FLORIDA 32703

TELEPHONE 407-880-0100
TOLL FREE 1-800-432-4501

December 11, 1989

Ms. Marie Carrasquillo
State of Florida
Department of Environmental Regulation
3319 Maguire Blvd., Suite 232
Orlando, Fl 32803

Re: University Shores (Suncrest) water plant, Orange County, ID# 3481413

Dear Ms. Carrasquillo,

Please find attached results for the Fourth Quarter Volatile Organics analysis, "EDB" analysis, and Unregulated contaminates for the above mentioned plant. Please enter these in your records.

Thank you for your cooperation.

Sincerely,
SOUTHERN STATES UTILITIES, INC.

Sam Sparks,
Area Supervisor

SS/cd
cc: Aaron Perlowich
Engineering
file

enclosure (as stated)

ORLANDO LABORATORIES INC

P.O. Box 149127 • Orlando, Florida 32814 • (407) 896-6645

RECEIVED
DEC 8 1989

REPORT OF ANALYSIS

Southern States Utilities
1000 Color Place
Apopka, Florida 32703

Attn: Aaron Porlowich

Work Order # : 89-11-082
Date Received: 11/08/89
Date Reported: 12/05/89
OLI Contact: E_HOBBS

Work ID: Univ. Shores - Suncrest
Total Samples: 3

Sampling information is based on data supplied by Client

| SAMPLE IDENTIFICATION | TEST CODES and NAMES used on this report | |
|---|---|---|
| 01 Comp #1 (Suncrest/Univ. S) | 504R | 17-550 "EDB" Analysis |
| 02 Trip Blank | 504U | 17-550 "DBCP" Analysis |
| 03 Method Blank | 524R | DER 17-550 Regulated VOA's |
| | 524U | DER 17-550 Unregulated VOA |
| | 531U | DER 17-550 Unreg Pest 531s |
| | 608U | DER 17-550 Unreg Pest 608s |
| | 615U | DER 17-550 Unreg Pest 515s |
| | 622U | DER 17-550 Unreg Pest 622s |
| | 625U | DER 17-550 Unreg BNAs/Pest |

OLI Florida Department of Health & Rehabilitative Service Identification Numbers are:
Drinking Water Certification Number 83141 Environmental Certification Number E83033

Respectfully Submitted,
ORLANDO LABORATORIES, INC.

Victor Kowalski
LABORATORY DIRECTOR

Eric Malarek
QUALITY CONTROL

*The Analytical Specialists*

ORLANGO LABORATORIES, INC.
Received: 11/08/89

REPORT OF ANALYSIS
Results by Sample

Work Order # 89-11-082

SAMPLE ID Comp #1 (Suncrest/Univ. S)
DATE COLLECTED 11/08/89
TEST NAME 17-550 "EDB" Analysis

SAMPLE# 01A
MATRIX WATER
TEST CODE 504R

SAMPLE TYPE WATER
UNITS ug/l
ANALYST JHW

DATE EXTRACTED 11/08/89
DATE RUN 11/13/89
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-504
VOLATILE ORGANIC ANALYSIS
17-550.310(2)(D)
(PWS028)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2946 | Ethylene dibromide | 0.02 | U | 0.02 |

ORLANDO LABORATORIES,INC.
Received: 11/08/89

REPORT OF ANALYSIS
Results by Sample

Work Order # 89-11-052

SAMPLE ID Comp #1 (Suncrest/Univ. S)
DATE COLLECTED 11/08/89
TEST NAME 17-550 "DBCP" Analysis

SAMPLE# 016
MATRIX WATER
TEST CODE 5041

SAMPLE TYPE WATER
UNITS ug/l
ANALYST JHM

DATE EXTRACTED 11/08/89
DATE RUN 11/13/89
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-504
UNREGULATED ORGANIC PURGEABLE ANALYSIS
17-550.410(1)
(PWS034)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 2931 | 1,2-dibromo-3-chloro propane | 0.02 U | 0.02 |

ORLANDO LABORATORIES, INC.
Received: 11/08/89

REPORT OF ANALYSIS
Results by Sample

Work Order # 89-11-082

SAMPLE ID Comp #1 (Suncrest/Univ. S)
DATE COLLECTED 11/08/89
TEST NAME DER 17-550 Regulated VOA's

SAMPLE# 01A
MATRIX WATER
TEST CODE 524R

SAMPLE TYPE WATER
UNITS UG/L
ANALYST EJP

DATE EXTRACTED NA
DATE RUN 11/9/89
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-524
VOLATILE ORGANIC ANALYSIS
17-550.310(2)(d)
(PW5028)

| Parameter ID | Name | Analysis Result | | Det. Lt. Used |
|---|---|---|---|---|
| 2069 | p-Dichlorobenzene | 0.5 | U | 0.5 |
| 2976 | Vinyl Chloride | 0.5 | U | 0.5 |
| 2977 | 1,1-Dichloroethane | 0.5 | U | 0.5 |
| 2980 | 1,2-Dichloroethane | 0.5 | U | 0.5 |
| 2981 | 1,1,1-Trichloroethane | 0.5 | U | 0.5 |
| 2982 | Carbon Tetrachloride | 0.5 | U | 0.5 |
| 2984 | Trichloroethene | 0.5 | U | 0.5 |
| 2987 | Tetrachloroethene | 0.5 | U | 0.5 |
| 2990 | Benzene | 0.5 | U | 0.5 |

ORLANDO LABORATORIES,INC.
Received: 11/08/89

REPORT OF ANALYSIS
Results by Sample

Work Order # 89-11-082

SAMPLE ID Comp #1 (Suncrest/Univ. S)
DATE COLLECTED 11/08/89
TEST NAME DER 17-550 Unregulated VOA

SAMPLE# 01A
MATRIX WATER
TEST CODE 5240

SAMPLE TYPE WATER
UNITS UG/L
ANALYST EJP

DATE EXTRACTED NA
DATE RUN 11/9/89
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-524
UNREGULATED ORGANIC PURGEABLE ANALYSIS
17-550.410(1)
(PWS034)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2210 | Chloromethane | 0.5 | U | 0.5 |
| 2212 | Dichlorodifluoromethane | 0.5 | U | 0.5 |
| 2214 | Bromomethane | 0.5 | U | 0.5 |
| 2216 | Chloroethane | 0.5 | U | 0.5 |
| 2218 | Trichlorofluoromethane | 0.5 | U | 0.5 |
| 2224 | trans-1,3-Dichloro propene | 0.5 | U | 0.5 |
| 2229 | cis-1,3-Dichloropropene | 0.5 | U | 0.5 |
| 2251 | Methyl tert-butyl-ether | 0.5 | U | 0.5 |
| 2260 | cis-1,2-Dichloroethene | 0.5 | U | 0.5 |
| 2406 | Dibromomethane | 0.5 | U | 0.5 |
| 2410 | 1,1-Dichloropropene | 0.5 | U | 0.5 |
| 2412 | 1,3-Dichloropropane | 0.5 | U | 0.5 |
| 2414 | 1,2,3-Trichloropropane | 0.5 | U | 0.5 |
| 2416 | 2,2-Dichloropropane | 0.5 | U | 0.5 |
| 2941 | Chloroform | 0.5 | U | 0.5 |
| 2942 | Bromoform | 0.5 | U | 0.5 |
| 2943 | Bromodichloromethane | 0.5 | U | 0.5 |
| 2944 | Dibromochloromethane | 0.5 | U | 0.5 |
| 2962 | para-Xylene | 0.5 | U | 0.5 |
| 2964 | Methylene Chloride | 0.5 | U | 0.5 |
| 2965 | o-Chlorotoluene | 0.5 | U | 0.5 |
| 2966 | p-Chlorotoluene | 0.5 | U | 0.5 |
| 2967 | meta-Dichlorobenzene | 0.5 | U | 0.5 |
| 2968 | Ortho-Dichlorobenzene | 0.5 | U | 0.5 |
| 2978 | 1,1-Dichloroethane | 0.5 | U | 0.5 |
| 2979 | trans-1,2-Dichloroethene | 0.5 | U | 0.5 |
| 2980 | 1,2-Dichloropropane | 0.5 | U | 0.5 |
| 2985 | 1,1,2-Trichloroethane | 0.5 | U | 0.5 |
| 2986 | 1,1,1,2-Tetrachloro ethane | 0.5 | U | 0.5 |
| 2988 | 1,1,2,2-Tetrachloro ethane | 0.5 | U | 0.5 |
| 2989 | Chlorobenzene | 0.5 | U | 0.5 |

NOD LABORATORIES,INC.
ived: 11/08/89

REPORT OF ANALYSIS
Results by Sample

Work Order # 89-11-082
Continued From Above

LE ID Comp #1 (Suncrest/Univ. S)
COLLECTED 11/08/89
NAME DER 17-550 Unregulated VOA

SAMPLE# 01A
MATRIX WATER
TEST CODE 524U

| | | | | |
|---|---|---|---|---|
| 2991 | Toluene | 0.5 | U | 0.5 |
| 2992 | Ethylbenzene | 0.5 | U | 0.5 |
| 2993 | Bromobenzene | 0.5 | U | 0.5 |
| 2995 | meta-Xylene | 0.5 | U | 0.5 |
| 2996 | Styrene | 0.5 | U | 0.5 |
| 2997 | ortho Xylene | 0.5 | U | 0.5 |

ORLANDO LABORATORIES,INC.
Received: 11/08/89

REPORT OF ANALYSIS
Results by Sample

Work Order # 89-11-082

SAMPLE ID Comp #1 (Suncrest/Univ. S)
DATE COLLECTED 11/08/89
TEST NAME OER 17-550 Unreg Pest 531s

SAMPLE# 01A
MATRIX WATER
TEST CODE 531U

SAMPLE TYPE WATER
UNITS ug/l
ANALYST JAB

DATE EXTRACTED NA
DATE RUN 11/15/89
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-531
UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PWS035)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2036 | Oxamyl (Vydate) | 2.0 | U | 2.0 |
| 2043 | Aldicarb Sulfoxide | 2.0 | U | 2.0 |
| 2044 | Aldicarb Sulfone | 2.0 | U | 2.0 |
| 2046 | Carbofuran | 1.5 | U | 1.5 |
| 2047 | Aldicarb | 1.0 | U | 1.0 |

ORLANDO LABORATORIES, INC.
Received: 11/08/89

REPORT OF ANALYSIS
Results by Sample

Work Order # 89-11-082

SAMPLE ID Comp #1 (Suncrest/Univ. S)
DATE COLLECTED 11/08/89
TEST NAME DER 17-550 Unreg Pest 508s

SAMPLE# 01A
MATRIX WATER
TEST CODE 508U

SAMPLE TYPE WATER
UNITS ug/l
ANALYST RAB

DATE EXTRACTED 11/08/89
DATE RUN 11/14/89
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-608
UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PWS035)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2065 | Heptachlor | 0.05 | U | 0.05 |
| 2256 | Aldrin | 0.05 | U | 0.05 |
| 2264 | Dieldrin | 0.10 | U | 0.10 |
| 2959 | Chlordane | 0.50 | U | 0.5 |

UNREGULATED BASE NEUTRAL EXTRACTABLE ANALYSIS
17-550.410(3)
(PWS036)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2388 | PCB-1016 | 0.50 | U | 0.5 |
| 2390 | PCB-1221 | 0.50 | U | 0.5 |
| 2392 | PCB-1232 | 0.50 | U | 0.5 |
| 2394 | PCB-1242 | 0.50 | U | 0.5 |
| 2396 | PCB-1248 | 0.50 | U | 0.5 |
| 2398 | PCB-1254 | 1.00 | U | 1.0 |
| 2400 | PCB-1260 | 1.00 | U | 1.0 |

ORLANDO LABORATORIES,INC.
Received: 11/08/89

REPORT OF ANALYSIS
Results by Sample

Work Order # 89-11-082

SAMPLE ID Comp #1 (Suncrest/Univ. S)
DATE COLLECTED 11/08/89
TEST NAME OER 17-550 Unreg Pest 515s

SAMPLE# 018
MATRIX WATER
TEST CODE 615U

SAMPLE TYPE WATER
UNITS ug/l
ANALYST NA

DATE EXTRACTED 11/21/89
DATE RUN 12/01/89
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-515.1
UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PWS035)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 2031 | Dalapon | <50 U | 50 |
| 2040 | Picloram | <0.020 U | 0.020 |
| 2041 | Dinoseb | <0.10 U | 0.10 |
| 2440 | Dicamba | <5.0 U | 5.0 |

Results by Sub-Contract Laboratory #81C91

ORLANDO LABORATORIES,INC.
Received: 11/08/89

REPORT OF ANALYSIS
Results by Sample

Work Order # 89-11-082

SAMPLE ID Comp #1 (Suncrest/Univ. S)
DATE COLLECTED 11/08/89
TEST NAME OER 17-550 Unreg Pest 622s

SAMPLE# 01A
MATRIX WATER
TEST CODE 622U

SAMPLE TYPE WATER
UNITS mg/l
ANALYST JHW

DATE EXTRACTED 11/08/89
DATE RUN 11/09/89
DILUTION FACTOR 1.
% MOISTURE NA

METHOD EPA-622
UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PWS035)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2037 | Simazine | 0.5 | U | 0.5 |
| 2045 | Metolachlor | 0.5 | U | 0.5 |
| 2050 | Atrazine | 0.5 | U | 0.5 |
| 2051 | Alachlor (Lasso) | 0.5 | U | 0.5 |

ORLANDO LABORATORIES,INC.
Received: 11/08/89

REPORT OF ANALYSIS
Results by Sample

Work Order # 89-11-082

SAMPLE ID Comp #1 (Suncrest/Univ. S)
DATE COLLECTED 11/08/89
TEST NAME DER 17-550 Unreg BNAs/Pest

SAMPLE# 01A
MATRIX WATER
TEST CODE 625U

SAMPLE TYPE WATER
UNITS ug/l
ANALYST EJP

DATE EXTRACTED 11/8/89
DATE RUN 11/13/89
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-625
UNREGULATED BASE NEUTRAL EXTRACTABLE ANALYSIS
17-550.410(3)
(PWS036)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 2262 | Isophorone | 10 U | 10 |
| 2378 | 1,2,4-Trichlorobenzene | 10 U | 10 |
| 2042 | Hexachlorocyclo pentadiene | 10 U | 10 |
| 2282 | Dimethylphthalate | 10 U | 10 |
| 2270 | 2,4-Dinitrotoluene | 10 U | 10 |
| 2294 | Diethylphthalate | 10 U | 10 |
| 2290 | Di-n-butyl phthalate | 10 U | 10 |
| 2294 | Butyl Benzyl Phthalate | 10 U | 10 |
| 2298 | Bis(2-Ethylhexyl) phthalate | 10 U | 10 |
| 9089 | Dioctylphthalate | 10 U | 10 |
| 2063 | 2,3,7,8-TCDD (Dioxin) | 1000 U | 1000 |

UNREGULATED ACID EXTRACTABLE ANALYSIS
17-550.410(4)
(PWS037)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 9108 | 2-Chlorophenol | 10 U | 10 |
| 9112 | 2-Methyl-4,6-Dinitro phenol | 50 U | 50 |
| 9115 | Phenol | 10 U | 10 |
| 9116 | 2,4,6-Trichlorophenol | 10 U | 10 |

UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PWS035)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 2326 | Pentachlorophenol | 50 U | 50 |

ORLANDO LABORATORIES, INC.
Received: 11/08/89

REPORT OF ANALYSIS
Results by Sample

Work Order # 89-11-032

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME 17-550 "EDB" Analysis

SAMPLE# 03A
MATRIX METHODBLANK
TEST CODE 504R

SAMPLE TYPE WATER
UNITS ug/l
ANALYST JHW

DATE EXTRACTED 11/08/89
DATE RUN 11/13/89
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-504
VOLATILE ORGANIC ANALYSIS
17-550.310(2)(D)
(PWS028)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2946 | Ethylene dibromide | 0.02 | U | 0.02 |

ORLANDO LABORATORIES,INC.
Received: 11/08/89

REPORT OF ANALYSIS
Results by Sample

Work Order # 89-11-082

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME 17-550 "DBCP" Analysis

SAMPLE# 03A
MATRIX METHODBLANK
TEST CODE 504U

SAMPLE TYPE WATER
UNITS ug/l
ANALYST JHW

DATE EXTRACTED 11/08/89
DATE RUN 11/13/89
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-504
UNREGULATED ORGANIC PURGEABLE ANALYSIS
17-550.410(1)
(PWS034)

| Parameter ID | Name | Analysis Result | Det. Lt. |
|---|---|---|---|
| 2931 | 1,2-dibromo-3-chloro propane | 0.02 U | 0.02 |

ORLANDO LABORATORIES,INC. REPORT OF ANALYSIS Work Order # 89-11-082
Received: 11/06/89 Results by Sample

SAMPLE ID Method Blank SAMPLE# 03A
DATE COLLECTED not specified MATRIX METHODBLANK
TEST NAME DER 17-550 Regulated VOA's TEST CODE 524R

SAMPLE TYPE WATER DATE EXTRACTED NA
UNITS UG/L DATE RUN 11/9/89
ANALYST EJP DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-524
VOLATILE ORGANIC ANALYSIS
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Analysis Result | | Det. Lt. Used |
|---|---|---|---|---|
| 2969 | p-Dichlorobenzene | 0.5 | U | 0.5 |
| 2976 | Vinyl Chloride | 0.5 | U | 0.5 |
| 2977 | 1,1-Dichloroethene | 0.5 | U | 0.5 |
| 2980 | 1,2-Dichloroethane | 0.5 | U | 0.5 |
| 2981 | 1,1,1-Trichloroethane | 0.5 | U | 0.5 |
| 2982 | Carbon Tetrachloride | 0.5 | U | 0.5 |
| 2984 | Trichloroethene | 0.5 | U | 0.5 |
| 2987 | Tetrachloroethene | 0.5 | U | 0.5 |
| 2990 | Benzene | 0.5 | U | 0.5 |

IES.INC.
39

REPORT OF ANALYSIS
Results by Sample

Work Order # 89-11-082

Method Blank
Not specified
NER 17-550 Unregulated VOA

SAMPLE# 03A
MATRIX METHODBLANK
TEST CODE 524U

E TYPE WATER
UNITS UG/L
NALYST EJP

DATE EXTRACTED NA
DATE RUN 11/9/89
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-524
UNREGULATED ORGANIC PURGEABLE ANALYSIS
17-550.410(1)
(PWS034)

| ameter | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 0 | Chloromethane | 0.5 | U | 0.5 |
| 2 | Dichlorodifluoromethane | 0.5 | U | 0.5 |
| 4 | Bromomethane | 0.5 | U | 0.5 |
| 6 | Chloroethane | 0.5 | U | 0.5 |
| 8 | Trichlorofluoromethane | 0.5 | U | 0.5 |
| 4 | trans-1,3-Dichloro propene | 0.5 | U | 0.5 |
| 8 | cis-1,3-Dichloropropene | 0.5 | U | 0.5 |
| 1 | Methyl tert-butyl ether | 0.5 | U | 0.5 |
| 0 | cis-1,2-Dichloroethene | 0.5 | U | 0.5 |
| 8 | Dibromomethane | 0.5 | U | 0.5 |
| 0 | 1,1-Dichloropropene | 1.0 | U | 0.5 |
| 2 | 1,1-Dichloropropane | 0.5 | U | 0.5 |
| 4 | 1,2,3-Trichloropropane | 0.5 | U | 0.5 |
| 6 | 2,2-Dichloropropane | 0.5 | U | 0.5 |
| 1 | Chloroform | 0.5 | U | 0.5 |
| 2 | Bromoform | 0.5 | U | 0.5 |
| 3 | Bromodichloromethane | 0.5 | U | 0.5 |
| 4 | Dibromochloromethane | 0.5 | U | 0.5 |
| 2 | para-Xylene | 0.5 | U | 0.5 |
| 4 | Methylene Chloride | 1.0 | U | 1.0 |
| 5 | m-Chlorotoluene | 1.0 | U | 1.0 |
| 6 | o-Chlorotoluene | 1.0 | U | 0.5 |
| 7 | meta- Chlorobenzene | 1.0 | U | 0.5 |
| 8 | ortho-Dichlorobenzene | 1.0 | U | 0.5 |
| 9 | 1,1-Dichloroethane | 0.5 | U | 0.5 |
| 3 | trans-1,2-Dichloroethene | 0.5 | U | 0.5 |
| 2 | 1,2-Dichloropropane | 1.0 | U | 1.0 |
| 5 | 1,1,2-Trichloroethane | 0.5 | U | 0.5 |
| 1 | 1,1,1,2-Tetrachloro ethane | 0.5 | U | 0.5 |
| 8 | 1,1,2,2-Terrachloro ethan- | 1.0 | U | 1.0 |
| 2 | Chlorobenzene | 1.0 | U | 1.0 |

ORLANDO LABORATORIES,INC.
Received: 11/08/89

REPORT OF ANALYSIS
Results by Sample

Work Order # 89-11-082
Continued From Above

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME DER 17-550 Unregulated VOA

SAMPLE# 03A
MATRIX METHODBLANK
TEST CODE 524U

| | | | | |
|---|---|---|---|---|
| 2991 | Toluene | 0.5 | U | 0.5 |
| 2992 | Ethylbenzene | 0.5 | U | 0.5 |
| 2993 | Bromobenzene | 0.5 | U | 0.5 |
| 2995 | meta-Xylene | 0.5 | U | 0.5 |
| 2996 | Styrene | 0.5 | U | 0.5 |
| 2997 | ortho Xylene | 0.5 | U | 0.5 |

ORLANDO LABORATORIES,INC.
Received: 11/08/89

REPORT OF ANALYSIS
Results by Sample

Work Order # 89-11-082

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME DER 17-550 Unreg Pest 531s

SAMPLE# 03A
MATRIX METHODBLANK
TEST CODE 531U

SAMPLE TYPE WATER
UNITS ug/l
ANALYST JA6

DATE EXTRACTED NA
DATE RUN 11/15/89
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-531
UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PWS035)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2036 | Oxamyl (Vydate) | 2.0 | U | 2.0 |
| 2043 | Aldicarb Sulfoxide | 2.0 | U | 2.0 |
| 2044 | Aldicarb Sulfone | 2.0 | U | 2.0 |
| 2046 | Carbofuran | 1.5 | U | 1.5 |
| 2047 | Aldicarb | 1.0 | U | 1.0 |

ORLANDO LABORATORIES,INC.
Received: 11/08/89

REPORT OF ANALYSIS
Results by Sample

Work Order # 89-11-082

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME DER 17-550 Unreg Pest 608s

SAMPLE# 03A
MATRIX METHODBLANK
TEST CODE 608U

SAMPLE TYPE WATER
UNITS ug/l
ANALYST RAB

DATE EXTRACTED 11/08/89
DATE RUN 11/14/89
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-608
UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PWS035)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2065 | Heptachlor | 0.05 | U | 0.05 |
| 2356 | Aldrin | 0.05 | U | 0.05 |
| 2364 | Dieldrin | 0.10 | U | 0.10 |
| 2959 | Chlordane | 0.50 | U | 0.5 |

UNREGULATED BASE NEUTRAL EXTRACTABLE ANALYSIS
17-550.410(3)
(PWS036)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2388 | PCB-1016 | 0.50 | U | 0.5 |
| 2390 | PCB-1221 | 0.50 | U | 0.5 |
| 2392 | PCB-1232 | 0.50 | U | 0.5 |
| 2394 | PCB-1242 | 0.50 | U | 0.5 |
| 2396 | PCB-1248 | 0.50 | U | 0.5 |
| 2398 | PCB-1254 | 1.00 | U | 1.0 |
| 2400 | PCB-1260 | 1.00 | U | 1.0 |

ORLANDO LABORATORIES, INC.
Received: 11/08/89

REPORT OF ANALYSIS
Results by Sample

Work Order # 89-11-082

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME DER 17-550 Unreg Pest 622s

SAMPLE# 03A
MATRIX METHODBLANK
TEST CODE 622U

SAMPLE TYPE WATER
UNITS mg/l
ANALYST JHW

DATE EXTRACTED 11/08/89
DATE RUN 11/09/89
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-622
UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PWS035)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2037 | Simazine | 0.5 | U | 0.5 |
| 2045 | Metolachlor | 0.5 | U | 0.5 |
| 2050 | Atrazine | 0.5 | U | 0.5 |
| 2051 | Alachlor (Lasso) | 0.5 | U | 0.5 |

ORLANDO LABORATORIES,INC.
Received: 11/08/89

REPORT OF ANALYSIS
Results by Sample

Work Order # 89-11-082

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME OER 17-550 Unreg BNAs/Pest

SAMPLE# 03A
MATRIX METHODBLANK
TEST CODE 625U

SAMPLE TYPE WATER
UNITS ug/l
ANALYST EJP

DATE EXTRACTED 11/8/89
DATE RUN 11/13/89
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-625
UNREGULATED BASE NEUTRAL EXTRACTABLE ANALYSIS
17-550.410(3)
(PWS036)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2262 | Isophorone | 10 | U | 10 |
| 2378 | 1,2,4-Trichlorobenzene | 10 | U | 10 |
| 2042 | Hexachlorocyclo pentadiene | 10 | U | 10 |
| 2282 | Dimethylphthalate | 10 | U | 10 |
| 2270 | 2,4-Dinitrotoluene | 10 | U | 10 |
| 2284 | Diethylphthalate | 10 | U | 10 |
| 2290 | Di-n-butyl phthalate | 10 | U | 10 |
| 2294 | Butyl Benzyl Phthalate | 10 | U | 10 |
| 2296 | Bis(2-Ethylhexyl) phthalate | 10 | U | 10 |
| 9089 | Dioctylphthalate | 10 | U | 10 |
| 2063 | 2,3,7,8-TCDD (Dioxin) | 1000 | U | 1000 |

UNREGULATED ACID EXTRACTABLE ANALYSIS
17-550.410(4)
(PWS037)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 9108 | 2-Chlorophenol | 10 | U | 10 |
| 9112 | 2-Methyl-4,6-Dinitro phenol | 50 | U | 50 |
| 9115 | Phenol | 10 | U | 10 |
| 9116 | 2,4,6-Trichlorophenol | 10 | U | 10 |

UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PWS035)

| Parameter ID | Name | Analysis Result | | Det. Lt. |
|---|---|---|---|---|
| 2326 | Pentachlorophenol | 50 | U | 50 |

ORLANDO LABORATORIES,INC.
Received: 11/06/89

REPORT OF ANALYSIS
*NonReported Work*

Work Order # 89-11-082

FRACTION AND TEST CODES FOR WORK NOT REPORTED ELSEWHERE

02A : NOTEST

# MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 11-10-1989

LAB SAMPLE # : 8911882-01A
ANALYSIS DATE : 11/09/89

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| diazinon | 100 | 0 | 62 | 62 | 54 | 54 | 14 |

COMMENTS :

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| diazinon | 47 | 147 | 18 | 45 | 150 | 30 |

ORLANDO LABORATORIES INC.

GC/MS VOLATILE ORGANICS

MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 11-13-1989

LAB SAMPLE # : 8911083-4
ANALYSIS DATE : 11/9/89

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| 1,1-dichloroethene | 50 | 0 | 58 | 116 | 52 | 104 | 11 |
| trichloroethene | 50 | 0 | 57 | 114 | 58 | 116 | 2 |
| benzene | 50 | 0 | 56 | 112 | 53 | 106 | 6 |
| toluene | 50 | 0 | 58 | 116 | 55 | 110 | 5 |
| chlorobenzene | 50 | 0 | 57 | 114 | 55 | 110 | 4 |

COMMENTS :

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| 1,1-dichloroethene | 61 | 145 | 14 | 59 | 172 | 22 |
| trichloroethene | 71 | 120 | 14 | 62 | 137 | 24 |
| benzene | 76 | 127 | 11 | 66 | 142 | 21 |
| toluene | 76 | 125 | 13 | 59 | 139 | 21 |
| chlorobenzene | 75 | 130 | 13 | 60 | 133 | 21 |

ORLANDO LABORATORIES, INC.

GC ORGANICS

# MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 11-13-1989

LAB SAMPLE # : 8911082-01A
ANALYSIS DATE : 10/13/89

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| ETHYLENE DIBROMIDE | 100 | 0 | 61 | 61 | 63 | 63 | 3 |

COMMENTS :

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| ETHYLENE DIBROMIDE | 56 | 138 | 20 | 58 | 138 | 25 |

ORLANDO LABORATORIES INC.

GC/MS SEMI-VOLATILE ORGANICS

MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 11-15-1989

LAB SAMPLE # : 8911082-2
ANALYSIS DATE : 11/14/89

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| phenol | 200 | 0 | 144 | 72 | 132 | 66 | 9 |
| 2-chlorophenol | 200 | 0 | 223 | 112 | 192 | 96 | 15 |
| 4-chloro-3-methylphenol | 200 | 0 | 177 | 89 | 154 | 77 | 14 |
| 4-nitrophenol | 200 | 0 | 44 | 22 | 43 | 22 | 2 |
| pentachlorophenol | 200 | 0 | 203 | 102 | 182 | 91 | 11 |
| 1,4-dichlorobenzene | 100 | 0 | 95 | 95 | 79 | 79 | 18 |
| n-nitroso-di-n-propylamine | 100 | 0 | 121 | 121 * | 103 | 103 | 16 |
| 1,2,4-trichlorobenzene | 100 | 0 | 91 | 91 | 85 | 85 | 7 |
| acenaphthene | 100 | 0 | 118 | 118 | 105 | 105 | 12 |
| 2,4-dinitrotoluene | 100 | 0 | 110 | 110 * | 112 | 112 * | 2 |
| pyrene | 100 | 0 | 128 | 128 * | 125 | 125 | 2 |

COMMENTS : * = parameter outside QC limits.

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| phenol | 12 | 89 | 42 | 26 | 90 | 35 |
| 2-chlorophenol | 27 | 123 | 40 | 25 | 102 | 50 |
| 4-chloro-3-methylphenol | 23 | 97 | 42 | 26 | 103 | 33 |
| 4-nitrophenol | 10 | 90 | 50 | 11 | 114 | 50 |
| pentachlorophenol | 25 | 103 | 50 | 17 | 109 | 47 |
| 1,4-dichlorobenzene | 36 | 97 | 28 | 28 | 104 | 27 |
| n-nitroso-di-n-propylamine | 41 | 116 | 38 | 41 | 126 | 38 |
| 1,2,4-trichlorobenzene | 39 | 98 | 28 | 38 | 107 | 23 |
| acenaphthene | 46 | 118 | 31 | 31 | 137 | 19 |
| 2,4-dinitrotoluene | 24 | 102 | 38 | 28 | 95 | 47 |
| pyrene | 26 | 127 | 31 | 35 | 142 | 36 |

ORLANDO LABORATORIES, INC.

GC ORGANICS

# MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 11-16-1989

LAB SAMPLE # : 8911082-01A
ANALYSIS DATE : 11/15/89

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| ALDICARB | 100 | 0 | 78 | 78 | 90 | 90 | 14 |
| CARBOFURAN | 100 | 0 | 83 | 83 | 95 | 95 | 13 |
| OXAMYL | 100 | 0 | 89 | 89 | 100 | 100 | 12 |

COMMENTS :

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| ALDICARB | 77 | 127 | 20 | 72 | 132 | 20 |
| CARBOFURAN | 79 | 121 | 20 | 74 | 126 | 20 |
| OXAMYL | 71 | 133 | 20 | 66 | 139 | 20 |

ORLANDO LABORATORIES, INC.

GC ORGANICS

# MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 11-16-1989

LAB SAMPLE # : 8911088-01C
ANALYSIS DATE : 11/14/89

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| GAMMA-BHC (LINDANE) | 100 | 0 | 120 | 120 | 117 | 117 | 3 |
| HEPTACHLOR | 100 | 5 | 87 | 87 | 82 | 82 | 6 |
| ALDRIN | 100 | 0 | 96 | 96 | 101 | 101 | 5 |
| DIELDRIN | 100 | 0 | 113 | 113 | 111 | 111 | 2 |
| ENDRIN | 100 | 0 | 62 | 62 | 57 | 57 | 8 |
| 4,4-DDT | 100 | 0 | 72 | 72 | 81 | 81 | 12 |

COMMENTS :

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| GAMMA-BHC (LINDANE) | 56 | 123 | 15 | 46 | 127 | 50 |
| HEPTACHLOR | 40 | 131 | 20 | 35 | 130 | 31 |
| ALDRIN | 40 | 120 | 22 | 34 | 132 | 43 |
| DIELDRIN | 52 | 126 | 18 | 31 | 134 | 38 |
| ENDRIN | 56 | 121 | 21 | 42 | 139 | 45 |
| 4,4-DDT | 38 | 127 | 27 | 23 | 134 | 50 |

End of Report

ORLANDO LABORATORIES, INC.
P.O. Box 149127, Orlando, FL 32814
(407) 896-6645 FAX (407) 898-6588

# CHAIN-OF-CUSTODY RECORD

| INVOICE TO | ADDRESS | CONTACT/PHON |
|---|---|---|
| Southern States Util, Fla | 1000 Color Place - Apopka, Fla. 32703 | 880- |
| REPORT TO | ADDRESS | |
| Aaron Perlowski | Same | |
| CLIENT PROJECT NAME | CLIENT PROJECT # | |
| Univ. Shores - Suncrest | | |
| CLIENT PROJECT LOCATION | | |
| Plant | | |

| LAB USE ONLY | SAMPLE IDENTIFICATION | DATE | TIME | COMP | GRAB | WATER | SOIL | SAMPLE DESCRIPTION | NUMBER OF CONTAINERS | REQUESTED ANALYSIS: Sar AR | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | #1 Well (Suncrest) | 11-8 | 0700 | | ✓ | ✓ | | | 7 | | |
| | #2 well (Suncrest) | 11-8 | 0700 | | ✓ | ✓ | | | 7 | | |
| | #1 well (Univ. Shores) | 11-8 | 0730 | | ✓ | ✓ | | | 7 | | |
| | #2 well (Univ. Shores) | 11-8 | 0730 | | ✓ | ✓ | | | 7 | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

| TRANSFER NUMBER | RELINQUISHED BY | DATE/TIME | ACCEPTED BY | DATE/TIME |
|---|---|---|---|---|
| | Don Corder | 11-8-89/0900 | N Rutland | 11-8-89 9 am |
| | | | | |
| | | | | |

ADDITIONAL REMARKS

Donald B. Corder
SAMPLER'S SIGNATURE

Original - Client
Yellow - Lab
Pink - File

Rev 03/89

0981

Fritz Unus Show Clare

# Orlando Laboratories, Inc.

P. O. Box 19127 • Orlando, Florida 32814 • 305/896-6645

Southern States Utilities
Attn: Aaron Perlowich
1000 Color Place
Apopka, Florida 32703

Report: 51829 (5068)
Sample submitted by: Client •
Date Sampled: 02-29-88 @ 2-4:30 pm. •
Date Received: 03-01-88
Date Reported: 04-04-88
Page 1 of 6

PURPOSE: To analyze sample for Secondary Drinking Water Regulations
AUTHORIZATION: Sample Identification Form received from client 03-01-88
SAMPLE IDENTIFICATION: Sample submitted and identified by client as: University Shores Distribution System.
PROCEDURE: This water was analyzed according to "Standard Methods for the Examination of Water and Wastewater", 16th Edition, APHA, AWWA, and WPCF (1985).
RESULTS:

| DETERMINATION | (MCL) | RESULTS | UNITS |
|---|---|---|---|
| Chloride, Cl | (250) | 18 | mg/l |
| Color | (15) | <5 | PCU |
| Foaming Agents, (MBAS) | (0.5) | <0.1 | mg/l |
| Sulfate, $SO_4$ | (250) | <1.0 | mg/l |
| Total Dissolved Solids | (500) | 142 | mg/l |
| pH (Laboratory) | (6.5-8.5) | 7.3 | units |
| Odor Threshold | (3) | 1 | units |
| Nitrate Nitrogen, $NO_3$-N | | <0.03 | mg/l |
| Copper, Cu | (1.0) | <0.010 | mg/l |
| Iron, Fe | (0.3) | <0.100 | mg/l |
| Manganese, Mn | (0.05) | <0.050 | mg/l |
| Zinc, Zn | (5) | <0.050 | mg/l |

< = Less Than

• Sampling information based on data supplied by client.

MCL = Maximum Contaminant Level.

Respectfully submitted
ORLANDO LABORATORIES, INC.

Martin A. Zemaitis
Laboratory Manager

Quality Control

OLI Florida Department of Health & Rehabilitative Services Identification Number is 83141.

Southern States Utilities
Attn: Aaron Perlowich

Report: 51829 (5068)
Page 2 of 6

PURPOSE: To analyze sample for Secondary Drinking Water Regulations
AUTHORIZATION: Sample Identification Form received from client 03-01-88
SAMPLE IDENTIFICATION: Sample submitted and identified by client as:
University Shores Tank ENTRY POINT TO 375TH CUSTOMER FROM 375.
PROCEDURE: This water was analyzed according to "Standard Methods for the Examination of Water and Wastewater", 16th Edition, APHA, AWWA, and WPCF (1985).
RESULTS:

| DETERMINATION | (MCL) | RESULTS | UNITS |
|---|---|---|---|
| Color | (15) | <5 | PCU |
| Foaming Agents, (MBAS) | (0.5) | <0.1 | mg/l |
| Total Dissolved Solids | (500) | 158 | mg/l |
| Odor Threshold | (3) | 1 | units |
| * Corrosivity | (-0.2 to +0.2) | -0.5 | units |
| * Sodium, Na | | 6.5 | mg/l |
| * Turbidity | | <1.0 | NTU |

Southern States Utilities
Attn: Aaron Perlowich

Report #: 51829 (5068)


PURPOSE: To analyze the sample for Primary Drinking Water Regulations
SAMPLE IDENTIFICATION: Sample submitted and identified by client as: University Shores Distribution System
PROCEDURE: In accordance with Federal Register-Vol. 40, No. 248, Part IV-Wednesday, December 24, 1975. U.S. Environmental Protection Agency, National Interim Primary Drinking Water Regulations.

RESULTS, mg/l

| CONTAMINANT | MCL | DISTRIBUTION SYSTEM |
|---|---|---|
| INORGANIC: | | |
| Arsenic, As | 0.05 | <0.010 |
| Barium, Ba | 1.0 | <0.100 |
| Cadmium, Cd | 0.010 | <0.005 |
| Chromium, Cr | 0.05 | <0.010 |
| Lead, Pb | 0.05 | <0.010 |
| Mercury, Hg | 0.002 | <0.0005 |
| Selenium, Se | 0.01 | <0.005 |
| Silver, Ag | 0.05 | <0.010 |
| Nitrate Nitrogen, $NO_3$-N | 10 | <0.03 |
| ORGANIC: | "ORGANIC ANALYSES BY GAS CHROMATOGRAPHIC SCREENING" | |
| Endrin | 0.0002 | ND(0.0001) |
| Lindane | 0.004 | ND(0.001) |
| Methoxychlor | 0.1 | ND(0.01) |
| Toxaphene | 0.005 | ND(0.005) |
| 2,4-D | 0.1 | ND(0.01) |
| 2,4,5-TP (Silvex) | 0.01 | ND(0.001) |

ND = Not detected to the levels in parentheses.
MCL= Maximum Contaminant Level.

Southern States Utilities
Attn: Aaron Perlowich

Report #: 51829 (5068)


PURPOSE: To analyze the sample for Radionuclides.
SAMPLE IDENTIFICATION: Sample submitted and identified by client as:
University Shores Distribution System
PROCEDURE: EPA METHOD 900.0

RESULTS, pCi/l

| DETERMINATION | STORET # | DISTRIBUTION SYSTEM |
|---|---|---|
| Gross Alpha | #01501 | <0.5 |
| Counting error | #01502 | ±0.4 |

Southern States Utilities
Attn: Aaron Perlowich

Report #: 51829 (5068)


## QUALITY CONTROL DATA SHEET

DUPLICATES:

| PARAMETER | % DIFFERENCE | DATE | ANALYST |
|---|---|---|---|
| Chloride | <1.0 | 03-09-88 | J.B. |
| Color | <1.0 | 03-14-88 | A.S. |
| MBAS | <1.0 | 03-11-88 | A.S. |
| Sulfate | <1.0 | 03-16-88 | P.S. |
| TDS | 4.0 | 03-16-88 | A.S. |
| pH | <1.0 | 03-03-88 | B.D. |
| Odor | <1.0 | 03-14-88 | A.S. |
| Nitrates | 2.9 | 03-07-88 | B.D. |
| Sodium | 4.0 | 03-17-88 | B.D. |
| Turbidity | <1.0 | 03-18-88 | A.S. |
| Arsenic | 5.3 | 03-17-88 | C.G. |
| Barium | <1.0 | 03-17-88 | C.G. |
| Cadmium | 3.9 | 03-17-88 | A.H. |
| Chromium | 5.4 | 03-15-88 | A.H. |
| Lead | <1.0 | 03-16-88 | A.H. |
| Mercury | <1.0 | 03-17-88 | J.H. |
| Selenium | 9.5 | 03-16-88 | C.G. |
| Silver | 4.9 | 03-11-88 | A.H. |
| Calcium | 1.0 | 03-15-88 | M.S. |
| Magnesium | <1.0 | 03-15-88 | M.S. |
| Iron | <1.0 | 03-14-88 | C.G. |
| Manganese | 3.3 | 03-18-88 | J.H. |
| Copper | <1.0 | 03-18-88 | J.H. |
| Zinc | <1.0 | 03-18-88 | J.H. |
| Lindane | 2.9 | 03-10-88 | C.O. |
| Endrin | 5.6 | 03-10-88 | C.O. |
| Methoxychlor | 2.4 | 03-10-88 | C.O. |
| 2,4-D | 11 | 04-01-88 | C.O. |
| 2,4,5-TP | 6.7 | 04-01-88 | C.O. |
| Gross Alpha | 22 | 03-02-88 | J.B. |

Southern States Utilities
Attn: Aaron Perlowich

Report #: 51829 (5068)


## QUALITY CONTROL DATA SHEET

SPIKES:

| PARAMETER | % RECOVERY | DATE | ANALYST |
|---|---|---|---|
| Chloride | 101 | 03-09-88 | J.B. |
| MBAS | 109 | 03-11-88 | A.S. |
| Sulfate | 100 | 03-16-88 | P.S. |
| TDS | 81 | 03-16-88 | A.S. |
| Nitrates | 103/100 | 03-07-88 | B.D. |
| Sodium | 102/98 | 03-17-88 | B.D. |
| Arsenic | 99 | 03-17-88 | C.G. |
| Barium | 105 | 03-17-88 | C.G. |
| Cadmium | 100 | 03-17-88 | A.H. |
| Chromium | 97 | 03-15-88 | A.H. |
| Lead | 100 | 03-16-88 | A.H. |
| Mercury | 101 | 03-17-88 | J.H. |
| Selenium | 92 | 03-16-88 | C.G. |
| Silver | 105 | 03-11-88 | A.H. |
| Calcium | 99 | 03-15-88 | M.S. |
| Magnesium | 100 | 03-15-88 | M.S. |
| Iron | 100 | 03-14-88 | C.G. |
| Manganese | 96 | 03-18-88 | J.H. |
| Copper | 100 | 03-18-88 | J.H. |
| Zinc | 98 | 03-18-88 | J.H. |
| Lindane | 102 | 03-10-88 | C.O. |
| Endrin | 88 | 03-10-88 | C.O. |
| Methoxychlor | 81 | 03-10-88 | C.O. |
| 2,4-D | 100 | 04-01-88 | C.O. |
| 2,4,5-TP | 101 | 04-01-88 | C.O. |
| Gross Alpha | 134 | 03-02-88 | J.B. |
| Gross Alpha | 107 | 03-02-88 | J.B. |

State of Florida
Department of Health and Rehabilitative Services
Office of Laboratory Services
P.O. Box 210
Jacksonville, Florida 32231

I.D. NO. 13003
FOR LAB USE ONLY
DEC 16 11 07 AM '91
BY: D KALANIS

12/17

# DRINKING WATER BACTERIOLOGICAL ANALYSIS

SYSTEM NAME: University Shores/SUNCREST SYSTEM I.D. NO: 3481413 SYSTEM PHONE #: 880-0058

ADDRESS: c/o 1000 Colon pl. APOPKA COUNTY: ORANGE DER DISTRICT: 03

COLLECTOR: RICHARD ECK COLLECTOR PHONE #: SAME

SAMPLE SITE (Locality or Subdivision): SUNCREST

DATE AND TIME COLLECTED: 12/16/91 8:00 AM

TYPE OF SUPPLY(Circle one): (Community water system) Private well Noncommunity water system Swimming pool Nontransient noncommunity water system Bottled water Other public water system

TYPE OF SAMPLE(Circle one): (Compliance) (Check Box) [ ] Distribution [ ] Raw Repeat Replacement (Check Box) [ ] TNTC or C [ ] Turbid Main clearance Well survey Other _____ (Specify)

REMARKS:

| TO BE COMPLETED BY COLLECTOR OF SAMPLE | | | | TO BE COMPLETED BY LAB | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | ANALYSIS METHOD: | MF | MTF | MMO-MUG | PA |
| COLL. NO. | SAMPLE POINT (Specific Address) | Cl RES'D | pH | SAMPLE NUMBER | NON COLIFORM | *TOTAL | CONFIRM TOTAL | CONFIRM FECAL |
| 1 | #1 WELL | | 7.2 | 05[illegible] | | A | | |
| 2 | #2 WELL | | 7.2 | 05[illegible]506 | | A | | |
| 3 | 4328 SUNTREE | 1.0 | 7.2 | 05[illegible]507 | | A | | |
| 4 | 9961 KENOLL | 0.6 | 7.2 | 05[illegible]508 | | A | | |
| 5 | 2630 DEL CREST | 0.6 | 7.2 | 05[illegible]509 | | A | | |
| 6 | 9249 TOBY LN | 0.8 | 7.2 | 05[illegible]510 | | A | | |
| 7 | 3885 ORANGE LK | 0.6 | 7.2 | 05[illegible]511 | | A | | |

* Results in this column are preliminary. Fecal coliform confirmation on community and noncommunity water systems and total coliform confirmation on all types of water systems will follow in 24-48 hours.

P - Coliforms are present
A - Coliforms are absent
C - Confluent growth
TNTC - Too numerous to count
TA - Turbid, Absence of gas or acid

INTERPRETATIONS-REMARKS BY PROGRAM REVIEWER

HRS Form 682, Jan 91 (Obsoletes previous editions which may not be used) (Stock Number: 0760-000-0682-1)

NAME AND MAILING ADDRESS OF PERSON/FIRM TO RECEIVE REPORT

S.S.U. SERVICES, INC.
1000 Colon pl.
APOPKA, FL. 32703

( )
(X) SATISFACTORY
( ) INCOMPLETE COLLECTION INFORMATION
( ) REPEAT SAMPLES
( ) REPLACEMENT SAMPLES

REVIEWING OFFICIAL: JR

TITLE: DER

HRS

State of Florida
Department of Health and Rehabilitative Services
Office of Laboratory Services
P.O. Box 210
Jacksonville, Florida 32231

L.C. No. 13603
FOR LABORATORY ONLY
REC'D ORL
Dec 16 11 07 AM '91
BY: D.A./Wells
12/17

# DRINKING WATER BACTERIOLOGICAL ANALYSIS

SYSTEM NAME: University Shores SYSTEM I.D. NO: 3481413 SYSTEM PHONE #: 860-0058

ADDRESS: C/O 1000 Colonial, Apopka COUNTY: ORANGE DER DISTRICT: 03

COLLECTOR: Richard Eck COLLECTOR PHONE #: Same

SAMPLE SITE (Locality or Subdivision): Same

DATE AND TIME COLLECTED: 12/16/91 7:30 AM

TYPE OF SUPPLY(Circle one): (Community water system) Noncommunity water system Nontransient - noncommunity water system
Private well Swimming pool Bottled water Other public water system

TYPE OF SAMPLE(Circle one): (Compliance) Repeat Replacement Main clearance Well survey Other _____
(Check Box) (Check Box) (Specify)
[ ] Distribution [ ] TNTC or C
[ ] Raw [ ] Turbid
[ ]

REMARKS:

| TO BE COMPLETED BY COLLECTOR OF SAMPLE | | | | TO BE COMPLETED BY LAB | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | ANALYSIS METHOD: | MF | MTF | MMO-MUG | PA |
| COLL. NO. | SAMPLE POINT (Specific Address) | Cl RES'D | pH | SAMPLE NUMBER | NON COLIFORM | *TOTAL | CONFIRM TOTAL | CONFIRM FECAL |
| 1 | #1 Well | | 7.3 | 0[illegible]5 | | A | | |
| 2 | #2 Well | | 7.3 | 0[illegible]04 | | A | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

* Results in this column are preliminary. Fecal coliform confirmation on community and noncommunity water systems and total coliform confirmation on all types of water systems will follow in 24-48 hours.

P - Coliforms are present C - Confluent growth TA - Turbid, Absence of gas or acid
A - Coliforms are absent TNTC - Too numerous to count

INTERPRETATIONS-REMARKS BY PROGRAM REVIEWER

NAME AND MAILING ADDRESS OF PERSON/FIRM TO RECEIVE REPORT

S.S.U. Services, Inc.
1000 Colonial pl.
Apopka, FL. 32703

( )
(X) SATISFACTORY
( ) INCOMPLETE COLLECTION INFORMATION
( ) REPEAT SAMPLES
( ) REPLACEMENT SAMPLES

REVIEWING OFFICIAL: [signature]

TITLE: DEP

HRS Form 886, Jan 91 (Obsolete previous editions which may not be used) (Stock Number: 5160-000-0081-5)

HRS

State of Florida
Department of Health and Rehabilitative Services
Office of Laboratory Services
P.O. Box 210
Jacksonville, Florida 32231

I.D NO 13003
REC FOR USE ONLY
DEC 23 1 30 PM '91
BY: D. KAZANIS
12/24

# DRINKING WATER BACTERIOLOGICAL ANALYSIS

SYSTEM NAME: University Shores/SUNCREST SYSTEM I.D. NO: 3461413 SYSTEM PHONE #: 880-0056

ADDRESS: C/O 1000 Colon Place, Apopka COUNTY: ORANGE DER DISTRICT: 03

COLLECTOR: Richard Eck COLLECTOR PHONE #: Same

SAMPLE SITE (Locality ~~or Subdivision~~): UNIVERSITY SHORES/SUNCREST

DATE AND TIME COLLECTED: 12/23/91 10:30A

TYPE OF SUPPLY(Circle one): (Community water system) Noncommunity water system Nontransient - noncommunity water system
Private well Swimming pool Bottled water Other public water system

TYPE OF SAMPLE(Circle one): (Compliance) Repeat Replacement Main clearance Well survey Other _____ (Specify)
(Check Box) [ ] Distribution (Check Box) [ ] TNTC or C [ ] Raw [ ] Turbid [ ]

REMARKS:

| TO BE COMPLETED BY COLLECTOR OF SAMPLE | | | | TO BE COMPLETED BY LAB | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | ANALYSIS METHOD: | MF | MTF | MMO-MUG | PA |
| COLL. NO. | SAMPLE POINT (Specific Address) | Cl RES'D | pH | SAMPLE NUMBER | NON COLIFORM | *TOTAL | CONFIRM TOTAL | CONFIRM FECAL |
| 1 | 8326 L.S.U. BLVD | .5 | 7.3 | 05-855 | | A | | |
| 2 | 3654 VERAVAL | .5 | 7.3 | 05-854 | | A | | |
| 3 | 8566 SPENCER CT | .6 | 7.3 | 05-855 | | A | | |
| 4 | 200 COMPANY SO | .5 | 7.3 | 05-856 | | A | | |
| 5 | 8504 AVALON | .5 | 7.3 | 05-857 | | A | | |
| 6 | SUNCREST PRESS TANK | 1.2 | 7.3 | 05-858 | | A | | |
| | | | | | | | | |

* Results in this column are preliminary. Fecal coliform confirmation on community and noncommunity water systems and total coliform confirmation on all types of water systems will follow in 24-48 hours.

P - Coliforms are present C - Confluent growth TA - Turbid, Absence of gas or acid
A - Coliforms are absent TNTC - Too numerous to count

INTERPRETATIONS-REMARKS BY PROGRAM REVIEWER

HRS Form 890, Jan 81 (Obsolete previous editions which may not be used) (Stock Number: 5760-000-0881-8)

NAME AND MAILING ADDRESS OF PERSON/FIRM TO RECEIVE REPORT

S.S.U. SERVICES, INC.
1000 Colon Pl.
APOPKA, FL 32703

( )
(X) SATISFACTORY
( ) INCOMPLETE COLLECTION INFORMATION
( ) REPEAT SAMPLES
( ) REPLACEMENT SAMPLES

REVIEWING OFFICIAL: JR

TITLE: DER

State of Florida
Department of Health and Rehabilitative Services
Office of Laboratory Services
P.O. Box 210
Jacksonville, Florida 32231

I.D. NO: 3EC03
FOR LAB USE ONLY
RECT ORL
DEC 23 1 30 PM '91
BY: D. KAZANIS
12/24

# DRINKING WATER
# BACTERIOLOGICAL ANALYSIS

SYSTEM NAME: Hunter's Ridge / University Forest SYSTEM I.D. NO: Numbers not assigned SYSTEM PHONE #: 880-0056
ADDRESS: c/o 1000 Colin pl, Apopka COUNTY: Orange DER DISTRICT: 03
COLLECTOR: Richard Elk COLLECTOR PHONE #: Same
SAMPLE SITE (~~Locality or Subdivision~~): Same
DATE AND TIME COLLECTED: 12/03/91 11:00 Am
TYPE OF SUPPLY(Circle one): (Community water system) Noncommunity water system Nontransient - noncommunity water system
Private Well Swimming pool Bottled water Other public water system
TYPE OF SAMPLE(Circle one): (Compliance) Repeat Replacement Rain clearance Well survey Other _____ (Specify)
(Check Box)
[ ] Distribution
[ ] Raw
(Check Box)
[ ] TNTC or C
[ ] Turbid
[ ]
REMARKS:

| TO BE COMPLETED BY COLLECTOR OF SAMPLE | | | | TO BE COMPLETED BY LAB | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | ANALYSIS METHOD: | MF | MTF | MMO-MUG | PA |
| COLL. NO. | SAMPLE POINT (Specific Address) | Cl RES'D | pH | SAMPLE NUMBER | NON COLIFORM | *TOTAL | CONFIRM TOTAL | CONFIRM FECAL |
| 1 | Hunter's Ridge Blde #3 | .5 | 7.2 | 05-6548 | | A | | |
| 2 | " " Blde #8 | .6 | 7.2 | 05-6550 | | A | | |
| 3 | 8005 Shalace | .6 | 7.3 | 05-6551 | | A | | |
| 4 | 3857 Donna Lynn | .6 | 7.3 | 05-6552 | | A | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

* Results in this column are preliminary. Fecal coliform confirmation on community and noncommunity water systems and total coliform confirmation on all types of water systems will follow in 24-48 hours.

P - Coliforms are present
A - Coliforms are absent
C - Confluent growth
TNTC - Too numerous to count
TA - Turbid, Absence of gas or acid

INTERPRETATIONS-REMARKS BY PROGRAM REVIEWER

HRS Form 668, Jan 91 (Obsoletes previous editions which may not be used) [Stock Number 5740-000-0668-1]

NAME AND MAILING ADDRESS OF PERSON/FIRM TO RECEIVE REPORT

S.S.U. Services, Inc
1000 Colin pl.
Apopka, FL 32703

( )
(X) SATISFACTORY
( ) INCOMPLETE COLLECTION INFORMATION
( ) REPEAT SAMPLES
( ) REPLACEMENT SAMPLES

REVIEWING OFFICIAL: JR
TITLE: OER

# Venetian Village - 567

**Lake County (SSU)**

**Water**

## - 1992 FPSC Filing -

# Venetian Village

## Chemical Analyses

---

**The most recent chemical analyses for the water system conducted by a certified laboratory covering the inorganic, organic, turbidity, microbiological, radionuclide, secondary and unregulated contaminants.**

| Chemical Analysis | Date Taken |
|---|---|
| Inorganic | 3/91 |
| Organic | 3/91 |
| Volatile Organic Chemicals | 3/91 |
| | 5/91 |
| | 8/91 |
| | 11/91 |
| Turbidity | 3/91 |
| Microbiological | 12/91 |
| Radionuclide | 3/91 |
| Secondary Contaminants | 3/91 |
| Unregulated Contaminants | 3/91 |

SSU
SERVICES

**General Offices**
1000 Color Place
Apopka, FL 32703
(407) 880-0058

April 30, 1991

Ms. Marie Carrasquillo
State of Florida
Department of Environmental Regulations
3319 Maguire Boulevard
Suite 232
Orlando, Florida 32803-3767

Re: Western Shores PWS ID #3351464
Lake Brantley PWS ID #3590685
Venetian Village PWS ID #3351426

Dear Ms. Carrasquillo,

Enclosed please find results for Primary Organics, Primary Inorganics, Secondarys, Turbidity and Radiological Analysis for the above referenced facilities.

Please enter this information into your records.

Sincerely,

SSU Services

Donald B. Corder

Donald B. Corder
Area Supervisor

DBC/jlm
cc: Charles Sweat
Frank Sanderson
Ralph Terrero
Clara Dozier
File

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Apr19 1991
PO Number: B91037
PO Number Venetian Vill
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: Vene- tian Village
Date Received: Mar26 1991 Lab Number : 16537

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16537 |
|---|---|---|---|---|---|
| Turbidity | NTU | 0.05 | 100 | .000 | 0.3 |
| Arsenic | mg/L | 0.0005 | 89.3 | 3.87 | <0.0005 |
| Barium | mg/L | 0.01 | 89.3 | .593 | <0.01 |
| Cadmium | mg/L | 0.001 | 106 | .745 | <0.001 |
| Chromium | mg/L | 0.005 | 103 | .043 | 0.005 |
| Fluoride | mg/L | 0.05 | 104 | 1.56 | 0.066? |
| Lead | mg/L | 0.001 | 114 | .773 | 0.001 |
| Mercury | mg/L | 0.0002 | 102 | 4.05 | <0.0002 |
| Nitrate(as N) | mg/L | 0.01 | 96.3 | .303 | 0.111 |
| Selenium | mg/L | 0.0005 | 95.0 | 2.48 | <0.0005 |
| Silver | mg/L | 0.005 | 101 | .349 | <0.005 |
| Sodium | mg/L | 0.002 | 105 | 1.01 | 0.0915 |
| TTHM | mg/L | 0.001 | 101 | .544 | <0.001 |
| Ethylene dibromide | mg/L | 0.000005 | 95.4 | 5.11 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 94.9 | 1.94 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 89.8 | 2.23 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 97.9 | 0.67 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 104 | 0.39 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 103 | 0.8 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 109 | 1.17 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 108 | 2.41 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 99 | 2.18 | <0.001 |
| Benzene | mg/L | 0.001 | 98.3 | 1.94 | <0.001 |
| Endrin | mg/L | 0.000001 | 89.5 | 3.63 | <0.000001 |
| Lindane | mg/L | 0.000001 | 100 | 5.22 | <0.000001 |
| Methoxychlor | mg/L | 0.00001 | 104 | 6.80 | <0.00001 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director

Jefferson L. Flowers, Ph.D
Jefferson S. Flowers, Ph.D
481 NEWBURYPORT
P.O. BOX 150597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-FGAS
FAX (407) 260-6110

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Apr19 1991
PO Number: B91037
PO Number Venetian Vill
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: Vene- tian Village
Date Received: Mar26 1991 Lab Number : 16537

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16537 |
|---|---|---|---|---|---|
| Toxaphene | mg/L | 0.0001 | 106 | 1.34 | <0.0001 |
| 2,4-D | mg/L | 0.00005 | 97.0 | 15.3 | <0.00005 |
| 2,4,5-TP(Silvex) | mg/L | 0.00002 | 107 | 8.63 | <0.00002 |
| Calcium | mg/L | 0.1 | 93.3 | 1.79 | 39.1 |
| Chloride | mg/L | 0.015 | 88.1 | 5.77 | 7.84 |
| Carbonate_CaCO3 | mg/L | 0.1 | | | 111.9 |
| Hydroxide_CaCO3 | mg/L | 0.1 | | | - |
| Copper | mg/L | 0.005 | 106 | .488 | <0.005 |
| Bicarbonate _CaCO3 | mg/L | 0.1 | | | 111.6 |
| Carbonate_Alkalinity | mg/L | 0.1 | | | 0.3 |
| Hydrogen_Sulfide | mg/L | 0.5 | | | - |
| Iron | mg/L | 0.01 | 106 | 1.48 | 0.312 |
| Magnesium | mg/L | 0.01 | 106 | 2.39 | 8.7 |
| Manganese | mg/L | 0.005 | 102 | .780 | 0.11 |
| Sulfate | mg/L | 0.2 | 95.5 | 1.90 | 0.8 |
| Zinc | mg/L | 0.001 | 101 | .392 | 0.013 |
| Carbon_Dioxide | mg/L | 0.1 | | | 7.3 |
| Color | mg/L | 5 | - | .000 | <5 |
| Total_Hardness | mg/L | 0.1 | | | 133.3 |
| NCH_as_CaCO3 | mg/L | 0.1 | | | 21.4 |
| Odor(TON) | TON | 1 | - | - | <1 |
| Field_pH | pH | 0.01 | | | - |
| Lab_pH | pH | 0.01 | 100 | 1.00 | 7.49 |
| Field Conductivity | umhos/c | 0.01 | | | - |
| Total Alkalinity | mg/L | 0.1 | 105 | .050 | 112 |
| TDS | mg/L | 2.5 | 99.5 | 1.09 | 143 |

Data Release Authorization

Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson G. Flowers, Ph.D.
Technical Director

Jefferson G. Flowers, Ph.D.
Jefferson G. Flowers, Ph.D.
481 NEWBURYPORT
P.O. BOX 950-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984
FAX (407) 260-6110

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Apr19 1991
PO Number: 891037
PO Number Venetian Vill
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: Vene- tian Village
Date Received: Mar26 1991 Lab Number : 16537

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16537 |
|---|---|---|---|---|---|
| Phenolphthalein Alk. | mg/L | 0.1 | | | - |
| Field Temp. (C) | oC | 1 | | | 25 |
| Langelier Index | LX | 0.01 | | | -0.32 |
| Saturation Index | pHs | 0.01 | | | 7.8 |
| Stability Index | pH | 0.01 | | | 8.12 |
| Foaming Agents | mg/L | 0.1 | 99.9 | .810 | <0.1 |
| Field DO | mg/L | 0.1 | | | - |
| Field Chlorine | mg/L | 0.1 | | | - |
| Gross alpha incl. Ra | pCi/L | 1 | | | <1 |
| Chloromethane | mg/L | 0.001 | 97.7 | 6.13 | <0.001 |
| Dichlorodifluorometh | mg/L | 0.001 | 96 | 4.68 | <0.001 |
| Bromomethane | mg/L | 0.001 | 96.5 | 3.55 | <0.001 |
| Chloroethane | mg/L | 0.001 | 97 | 4.63 | <0.001 |
| Trichlorofluorometha | mg/L | 0.001 | 97.1 | 4.33 | <0.001 |
| trans-1,3-dichlorop | mg/L | 0.001 | 97 | 3.3 | <0.001 |
| cis-1,3-dichloroprop | mg/L | 0.001 | 99.7 | 4.96 | <0.001 |
| Methyl-tert-butyleth | mg/L | 0.001 | 103 | 5.62 | <0.001 |
| cis-1,2-dichloroethe | mg/L | 0.001 | 96 | 7.82 | <0.001 |
| Dibromomethane | mg/L | 0.001 | 91.7 | 13.1 | <0.001 |
| 1,1-dichloropropene | mg/L | 0.001 | 100 | 11.3 | <0.001 |
| 1,3-dichloropropane | mg/L | 0.001 | 103 | 4.32 | <0.001 |
| 1,2,3-trichloroproba | mg/L | 0.001 | 99.2 | 0.84 | <0.001 |
| 2,2-dichloropropane | mg/L | 0.001 | 103 | 1.47 | <0.001 |
| 1,2-dibromo-3-chloro | mg/L | 0.001 | 105 | 2.77 | <0.001 |
| Chloroform | mg/L | 0.001 | 106 | 1.79 | <0.001 |
| Bromoform | mg/L | 0.001 | 105 | 2.75 | <0.001 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984
FAX (407) 260-6110

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Apr19 1991
PO Number: 891037
PO Number Venetian Vill
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: Vene- tian Village
Date Received: Mar26 1991 Lab Number : 16537

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16537 |
|---|---|---|---|---|---|
| Bromodichloromethane | mg/L | 0.001 | 99.4 | 6.21 | <0.001 |
| Dibromochloromethane | mg/L | 0.001 | 96.1 | 6.04 | <0.001 |
| p-xylene | mg/L | 0.001 | 95.8 | 3.32 | <0.001 |
| Methylene chloride | mg/L | 0.001 | 97.2 | 3.77 | <0.001 |
| o-chlorotoluene | mg/L | 0.001 | 96.8 | 5.49 | <0.001 |
| p-chlorotoluene | mg/L | 0.001 | 97.5 | 3.18 | <0.001 |
| m-dichlorobenzene | mg/L | 0.001 | 96.6 | 3.42 | <0.001 |
| o-dichlorobenzene | mg/L | 0.001 | 103 | 6.5 | <0.001 |
| 1,1-dichloroethane | mg/L | 0.001 | 104 | 4.73 | <0.001 |
| trans-1,2-dichloroet | mg/L | 0.001 | 87.9 | 10.9 | <0.001 |
| 1,2-dichloropropane | mg/L | 0.001 | 95.5 | 15.4 | <0.001 |
| 1,1,2-trichloroethan | mg/L | 0.001 | 105 | 7.21 | <0.001 |
| 1,1,1,2-tetrachloroe | mg/L | 0.001 | 98.5 | 1.43 | <0.001 |
| 1,1,2,2-tetrachloroe | mg/L | 0.001 | 99.8 | 0.26 | <0.001 |
| Chlorobenzene | mg/L | 0.001 | 105 | 2.69 | <0.001 |
| Toluene | mg/L | 0.001 | 106 | 2.84 | <0.001 |
| Ethylbenzene | mg/L | 0.001 | 106 | 0.74 | <0.001 |
| Bromobenzene | mg/L | 0.001 | 104 | 4.76 | <0.001 |
| m-xylene | mg/L | 0.001 | 95.2 | 7.66 | <0.001 |
| Styrene | mg/L | 0.001 | 97 | 4.42 | <0.001 |
| o-xylene | mg/L | 0.001 | 94.7 | 2.23 | <0.001 |
| Dalapon | mg/L | 0.000001 | 99.8 | 5.32 | <0.000001 |
| Oxamyl (Vydate) | mg/L | 0.002 | 93.8 | 5.66 | <0.002 |
| Simazine | mg/L | 0.007 | 101 | .699 | <0.007 |
| Picloram | mg/L | 0.00007 | 92.0 | 6.15 | <0.00007 |
| Dinoseb | mg/L | 0.00001 | 114 | 6.85 | <0.00001 |

Data Release Authorization

Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984
FAX (407) 260-6110

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Apr19 1991
PO Number: 891037
PO Number Venetian Vill
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: Vene- tian Village
Date Received: Mar26 1991 Lab Number : 16537

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16537 |
|---|---|---|---|---|---|
| Ald:carb sulfoxide | mg/L | 0.002 | 94.8 | 2.61 | <0.002 |
| Aldicarb sulfone | mg/L | 0.002 | 81.0 | 19.2 | <0.002 |
| Metolachlor | mg/L | 0.0005 | 110 | 11.6 | <0.0005 |
| Carbofuran | mg/L | 0.001 | 99.0 | 2.86 | <0.001 |
| Aldicarb | mg/L | 0.002 | 98.0 | .000 | <0.002 |
| Atrazine | mg/L | 0.002 | 102 | .522 | <0.002 |
| Alachlor (Lasso) | mg/L | 0.0002 | 109 | 4.85 | <0.0002 |
| Heptachlor | mg/L | 0.000005 | 102 | .834 | <0.000005 |
| Aldrin | mg/L | 0.00007 | 110 | .642 | <0.00007 |
| Dieldrin | mg/L | 0.00001 | 97.1 | 8.88 | <0.00001 |
| Dicamba | mg/L | 0.00001 | 93.3 | 6.45 | <0.00001 |
| Chlordane | mg/L | 0.00001 | 101 | 2.39 | <0.00001 |
| Pentachlorophenol | mg/L | 0.005 | 88.7 | 2.07 | <0.005 |
| Hexachlorocyclopenta | mg/L | 0.001 | 90.5 | 11.7 | <0.001 |
| Dioxin | mg/L | 0.00001 | 97.9 | 3.61 | <0.00001 |
| Isophorone | mg/L | 0.001 | 96.2 | 3.47 | <0.001 |
| 2,4-dinitrotoluene | mg/L | 0.001 | 99.9 | 6.20 | <0.001 |
| Dimethylphthalate | mg/L | 0.001 | 98.7 | 3.64 | <0.001 |
| Diethylphthalate | mg/L | 0.001 | 102 | 4.04 | <0.001 |
| Di-n-butylphthalate | mg/L | 0.001 | 96.6 | 3.42 | <0.001 |
| Butyl benzyl phthala | mg/L | 0.001 | 103 | 6.5 | <0.001 |
| Bis(2-ethylhexyl)pht | mg/L | 0.001 | 104 | 4.73 | <0.001 |
| 1,2,4-trichlorobenze | mg/L | 0.001 | 87.9 | 10.9 | <0.001 |
| PCB_1016 | mg/L | 0.0001 | 96.7 | 1.32 | <0.0001 |
| PCB_1221 | mg/L | 0.0001 | 96.3 | 1.91 | <0.0001 |
| PCB_1232 | mg/L | 0.0001 | 104 | .408 | <0.0001 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984
FAX (407) 260-6110

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Apr19 1991
PO Number: B91037
PO Number Venetian Vill
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: Vene- tian Village
Date Received: Mar26 1991 Lab Number : 16537

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16537 |
|---|---|---|---|---|---|
| PCB_1242 | mg/L | 0.0001 | 105 | 2.02 | <0.0001 |
| PCB_1248 | mg/L | 0.0001 | 99.4 | 3.41 | <0.0001 |
| PCB_1254 | mg/L | 0.0001 | 96.7 | 1.90 | <0.0001 |
| PCB_1260 | mg/L | 0.0001 | 103 | 3.15 | <0.0001 |
| Dioctylphthalate | mg/L | 0.001 | 104 | 4.76 | <0.001 |
| 2-chlorophenol | mg/L | 0.001 | 95.2 | 7.66 | <0.001 |
| 2-methyl-4,6-dinitop | mg/L | 0.001 | 97 | 4.42 | <0.001 |
| Phenol | mg/L | 0.001 | 98.6 | 3.79 | <0.001 |
| 2,4,6-trichloropheno | mg/L | 0.001 | 89.6 | 6.9 | <0.001 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director

Page 6 of 6

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
681 NEWBURYPORT
P.O. BOX 150 597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984
FAX (407) 260-6110

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 3351426
Public Water System Name Jonathan Village
Public Water System Type (check one):
(✓)Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyz: Turbidity_X_;Inorganic_X_; Trihalomethane _X_;
Volatile Organic_X_; Organic Chemical_X_: Secondary Chemical_X_; Radiological_X_;
Unregulated Organic Purgeable_X_; Unregulated Organic Pesticide_X_;
Unregulated Base Neutral Extractable_X_;Unregulated Acid Extractable__X_;
Subcontracted Lab Certification Numbe For Radiological Parameters: HRS82138

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number 16537
Sample Location (be specific): _____
Sample Type (check all applicable):
( )Check (✓)Regular Distribution (✓)Composit
( )Clearance ( )Maximum Residence Time (✓)Plant Tap
(✓)Raw (✓)Well ( )Resample
( )Special_____
Sampler Name, Title Phone:_____
_____

**ANALYSIS INFORMATION**
Extraction Date 4/5/91
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTEI Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___: Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature: _____

Name **Dr. Jefferson S Flowers**

Title **Technical Director**

Laboratory **Flowers Chemical Laboratories,Inc.**

Date 4/18/91

Mail Results to the
Appropriate DER or ACPHU Office:
_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 06/01/8 () Satisfactory () Unsatisfactory

## Turbidity Analysis
17-550.310(3)
(PWS026)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(NTU | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 0100 | Turbidity | 16537 | 1 | .300 | EPA180.1 | 0.05 | 4/2/91 |

Comments:

## Inorganic Analysis
17-550.310(1)
(PWS030)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1005 | Arsenic | 16537 | 0.05 | <0.0005 | EPA206.3 | 0.0005 | 4/11/91 |
| 1010 | Barium | 16537 | 1 | <0.1 | EPA208.1 | 0.01 | 4/10/91 |
| 1015 | Cadmium | 16537 | 0.01 | <0.001 | EPA213.1 | 0.001 | 4/10/91 |
| 1020 | Chromium | 16537 | 0.05 | .00500 | EPA218.1 | 0.005 | 4/10/91 |
| 1025 | Fluoride | 16537 | 4 | .0669 | EPA340.1 | 0.05 | 3/28/91 |
| 1030 | Lead | 16537 | 0.05 | <0.01 | EPA239.2 | 0.001 | 4/11/91 |
| 1035 | Mercury | 16537 | 0.002 | <0.0002 | EPA245.1 | 0.0002 | 4/2/91 |
| 1040 | Nitrate(as N) | 16537 | 10 | .111 | EPA353.1 | 0.01 | 04-10-91 |
| 1045 | Selenium | 16537 | 0.01 | <0.0005 | EPA270.3 | 0.0005 | 4/10/91 |
| 1050 | Silver | 16537 | 0.05 | <0.005 | EPA272.1 | 0.005 | 4/9/91 |
| 1052 | Sodium | 16537 | 160 | .0915 | EPA273.1 | 0.002 | 3/28/91 |

Comments:

## Trihalomethane Analysis
17-550.310(2)(c)
(PWS027)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2950 | TTHM | 16537 | 0.10 | <0.001 | EPA502.2 | 0.001 | 4/30/91 |

Comments:

## Volatile Organic Analysis
17-550.310(2)(d)
(PWS029)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 16537 | .00002 | <.000005 | EPA504.1 | .000005 | 4/12/91 |
| 2969 | Para-dichlorobenzene | 16537 | .075 | <0.001 | EPA502.2 | 0.001 | 4/30/91 |
| 2976 | Vinyl chloride | 16537 | 0.001 | <0.001 | EPA502.2 | 0.001 | 4/30/91 |
| 2977 | 1,1-dichloroethene | 16537 | 0.007 | <0.001 | EPA502.2 | 0.001 | 4/30/91 |
| 2980 | 1,2-dichloroethane | 16537 | 0.003 | <0.001 | EPA502.2 | 0.001 | 4/30/91 |
| 2981 | 1,1,1-trichloroethane | 16537 | 0.2 | <0.001 | EPA502.2 | 0.001 | 4/30/91 |
| 2982 | Carbon tetrachloride | 16537 | 0.003 | <0.001 | EPA502.2 | 0.001 | 4/30/91 |
| 2984 | Trichloroethene | 16537 | 0.003 | <0.001 | EPA502.2 | 0.001 | 4/30/91 |
| 2987 | Tetrachloroethene | 16537 | 0.003 | <0.001 | EPA502.2 | 0.001 | 4/30/91 |
| 2990 | Benzene | 16537 | 0.001 | <0.001 | EPA502.2 | 0.001 | 4/30/91 |

Comments:

## Organic Chemical Analysis
17-550.310(2)(a)(b)
(PWS029)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2005 | Endrin | 16537 | 0.0002 | <.000001 | EPA508 | .000001 | 4/5/91 |
| 2010 | Lindane | 16537 | 0.004 | <.000001 | EPA508 | .000001 | 4/5/91 |
| 2015 | Methoxychlor | 16537 | 0.1 | <0.00001 | EPA508 | 0.00001 | 4/12/91 |
| 2020 | Toxaphene | 16537 | 0.005 | <0.0001 | EPA508 | 0.0001 | 4/5/91 |
| 2105 | 2,4-D | 16537 | 0.1 | <0.00005 | EPA515 | 0.00005 | 4/12/91 |
| 2110 | 2,4,5-TP(Silvex) | 16537 | 0.01 | <0.00002 | EPA515 | 0.00002 | 4/12/91 |

Comments:

## Secondary Chemical Analysis
17-550.320
(PWS031)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1016 | Calcium | 16537 | | 39.1 | EPA215.1 | 0.1 | 4/10/91 |
| 1017 | Chloride | 16537 | 250 | 7.84 | EPA300.0 | 0.015 | 04-01-91 |
| 1019 | Carbonate CaCO3 | 16537 | | 111.9 | SM314A | 0.1 | 4/10/91 |
| 1021 | Hydroxide CaCO3 | 16537 | | 0.0 | SM406C | 0.1 | 4/10/91 |
| 1022 | Copper | 16537 | 1 | <0.005 | EPA220.1 | 0.005 | 4/11/91 |
| 1023 | Bicarbonate CaCO3 | 16537 | | 111.6 | SM406C | 0.1 | 4/10/91 |
| 1026 | Carbonate Alkalinity | 16537 | | 0.3 | SM406C | 0.1 | 4/10/91 |
| 1027 | Hydrogen Sulfide | 16537 | | | EPA376.1 | 0.5 | |
| 1028 | Iron | 16537 | 0.3 | .312 | EPA236.1 | 0.01 | 4/12/91 |
| 1031 | Magnesium | 16537 | | 8.70 | EPA242.1 | 0.01 | 4/10/91 |
| 1032 | Manganese | 16537 | 0.05 | 0.110 | EPA243.1 | 0.005 | 4/8/91 |
| 1055 | Sulfate | 16537 | 250 | 0.8 | EPA300.0 | 0.200 | 4/8/91 |
| 1095 | Zinc | 16537 | 5 | .0130 | EPA289.1 | 0.001 | 4/11/91 |
| 1901 | Carbon Dioxide | 16537 | | 7.3 | SM406C | 0.1 | 4/10/91 |
| 1905 | Color | 16537 | 15 | <5 | EPA110.1 | 5 | 4/1/91 |
| 1915 | Total Hardness | 16537 | | 133.3 | SM314A | 0.1 | 4/10/91 |
| 1917 | NCH as CaCO3 | 16537 | | 21.4 | SM314A | 0.1 | 4/10/91 |
| 1920 | Odor(TON) | 16537 | 3 | <1 | EPA140.1 | 1 | 4/1/91 |
| 1924 | Field pH | 16537 | 6.5-8.5 | 6.9 | EPA150.1 | 0.01 | |
| 1925 | Lab pH | 16537 | 6.5-8.5 | 7.49 | EPA150.1 | 0.01 | 4/1/91 |
| 1926 | Field Conductivity | 16537 | | 422 | - | 0.01 | |
| 1927 | Total Alkalinity | 16537 | | 112 | EPA310.1 | 0.1 | 3/29/91 |
| 1930 | TDS | 16537 | 500 | 143 | EPA160.1 | 2.5 | 4/9/91 |
| 1931 | Phenolphthalein Alk. | 16537 | | | EPA310.1 | 0.1 | |
| 1996 | Field Temp. (C) | 16537 | | 26 | - | | 1 4/10/91 |
| 1997 | Langelier Index | 16537 | -0.2:+0.2 | -0.32 | SM203 | 0.01 | 4/10/91 |
| 1998 | Saturation Index | 16537 | | 7.80 | SM203 | 0.01 | 4/10/91 |
| 1999 | Stability Index | 16537 | | 8.12 | SM203 | 0.01 | 4/10/91 |
| 2909 | Foaming Agents | 16537 | 0.5 | <0.1 | EPA425.1 | 0.1 | 4/1/91 |
| 9996 | Field DO | 16537 | | 3.4 | - | 0.1 | |
| 9997 | Field Chlorine | 16537 | | 1.2 | - | 0.1 | |

Comments:

## Radiological Analysis
17-550.310(5)

(PWS033)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(pCi/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 4000 | Gross alpha incl. Ra & U | 16537 | 5 | <1 | EPA900 | 1 | 4/18/91 |

Comments:

Unregulated Organic Purgeable Analysis
17-550.410(1)
(PWS034)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2210 | Chloromethane | 16537 | | <0.001 | EPA502.2 | 0.001 | 4/30/91 |
| 2212 | Dichlorodifluoromethan | 16537 | | <0.001 | EPA502.2 | 0.001 | 4/30/91 |
| 2214 | Bromomethane | 16537 | | <0.001 | EPA502.2 | 0.001 | 4/30/91 |
| 2216 | Chloroethane | 16537 | | <0.001 | EPA502.2 | 0.001 | 4/30/91 |
| 2218 | Trichlorofluoromethane | 16537 | | <0.001 | EPA502.2 | 0.001 | 4/30/91 |
| 2224 | trans-1,3,-dichloroprop | 16537 | | <0.001 | EPA502.2 | 0.001 | 4/30/91 |
| 2228 | cis-1,3-dichloropropene | 16537 | | <0.001 | EPA502.2 | 0.001 | 4/30/91 |
| 2251 | Methyl-tert-butylether | 16537 | | <0.001 | EPA502.2 | 0.001 | 4/30/91 |
| 2380 | cis-1,2-dichloroethene | 16537 | | <0.001 | EPA502.2 | 0.001 | 4/30/91 |
| 2408 | Dibromomethane | 16537 | | <0.001 | EPA502.2 | 0.001 | 4/30/91 |
| 2410 | 1,1-dichloropropene | 16537 | | <0.001 | EPA502.2 | 0.001 | 4/30/91 |
| 2412 | 1,3-dichloropropane | 16537 | | <0.001 | EPA502.2 | 0.001 | 4/30/91 |
| 2414 | 1,2,3-trichloropropane | 16537 | | <0.001 | EPA502.2 | 0.001 | 4/30/91 |
| 2416 | 2,2-dichloropropane | 16537 | | <0.001 | EPA502.2 | 0.001 | 4/30/91 |
| 2931 | 1,2-dibromo-3-chloropr | 16537 | | <0.001 | EPA502.2 | 0.001 | 4/30/91 |
| 2941 | Chloroform | 16537 | | <0.001 | EPA502.2 | 0.001 | 4/30/91 |
| 2942 | Bromoform | 16537 | | <0.001 | EPA502.2 | 0.001 | 4/30/91 |
| 2943 | Bromodichloromethane | 16537 | | <0.001 | EPA502.2 | 0.001 | 4/30/91 |
| 2944 | Dibromochloromethane | 16537 | | <0.001 | EPA502.2 | 0.001 | 4/30/91 |
| 2962 | p-xylene | 16537 | | <0.001 | EPA502.2 | 0.001 | 4/30/91 |
| 2964 | Methylene chloride | 16537 | | <0.001 | EPA502.2 | 0.001 | 4/30/91 |
| 2965 | o-chlorotoluene | 16537 | | <0.001 | EPA502.2 | 0.001 | 4/30/91 |
| 2966 | p-chlorotoluene | 16537 | | <0.001 | EPA502.2 | 0.001 | 4/30/91 |
| 2967 | m-dichlorobenzene | 16537 | | <0.001 | EPA502.2 | 0.001 | 4/30/91 |
| 2968 | o-dichlorobenzene | 16537 | | <0.001 | EPA502.2 | 0.001 | 4/30/91 |
| 2978 | 1,1-dichloroethane | 16537 | | <0.001 | EPA502.2 | 0.001 | 4/30/91 |
| 2979 | trans-1,2-dichloroethyl | 16537 | | <0.001 | EPA502.2 | 0.001 | 4/30/91 |
| 2983 | 1,2-dichloropropane | 16537 | | <0.001 | EPA502.2 | 0.001 | 4/30/91 |
| 2985 | 1,1,2-trichloroethane | 16537 | | <0.001 | EPA502.2 | 0.001 | 4/30/91 |
| 2986 | 1,1,1,2-tetrachloroetha | 16537 | | <0.001 | EPA502.2 | 0.001 | 4/30/91 |
| 2988 | 1,1,2,2-tetrachloroetha | 16537 | | <0.001 | EPA502.2 | 0.001 | 4/30/91 |
| 2989 | Chlorobenzene | 16537 | | <0.001 | EPA502.2 | 0.001 | 4/30/91 |
| 2991 | Toluene | 16537 | | <0.001 | EPA502.2 | 0.001 | 4/30/91 |
| 2992 | Ethylbenzene | 16537 | | <0.001 | EPA502.2 | 0.001 | 4/30/91 |
| 2993 | Bromobenzene | 16537 | | <0.001 | EPA502.2 | 0.001 | 4/30/91 |
| 2995 | m-xylene | 16537 | | <0.001 | EPA502.2 | 0.001 | 4/30/91 |
| 2996 | Styrene | 16537 | | <0.001 | EPA502.2 | 0.001 | 4/30/91 |
| 2997 | o-xylene | 16537 | | <0.001 | EPA502.2 | 0.001 | 4/30/91 |

Comments:

Unregulated Organic Pesticide Analysis
17-550.410(2)
(PWS035)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2031 | Dalapon | 16537 | | <.000001 | EPA515 | .000001 | 4/12/91 |
| 2036 | Oxamyl (Vydate) | 16537 | | <0.002 | EPA531 | 0.002 | 4/8/91 |
| 2037 | Simazine | 16537 | | <0.007 | EPA505 | 0.007 | 4/12/91 |
| 2040 | Picloram | 16537 | | <0.00007 | EPA515 | 0.00007 | 4/12/91 |
| 2041 | Dinoseb | 16537 | | <0.00001 | EPA515 | 0.00001 | 4/12/91 |
| 2043 | Aldicarb sulfoxide | 16537 | | <0.002 | EPA531 | 0.002 | 4/8/91 |
| 2044 | Aldicarb sulfone | 16537 | | <0.002 | EPA531 | 0.002 | 4/8/91 |
| 2045 | Metolachlor | 16537 | | <0.0005 | EPA505 | 0.0005 | 4/12/91 |
| 2046 | Carbofuran | 16537 | | <0.001 | EPA531 | 0.001 | 4/8/91 |
| 2047 | Aldicarb | 16537 | | <0.002 | EPA531 | 0.002 | 4/8/91 |
| 2050 | Atrazine | 16537 | | <0.002 | EPA505 | 0.002 | 4/12/91 |
| 2051 | Alachlor (Lasso) | 16537 | | <0.0002 | EPA505 | 0.0002 | 4/12/91 |
| 2065 | Heptachlor | 16537 | | <.000005 | EPA508 | .000005 | 4/5/91 |
| 2356 | Aldrin | 16537 | | <0.00007 | EPA508 | 0.00007 | 4/5/91 |
| 2364 | Dieldrin | 16537 | | <0.00001 | EPA508 | 0.00001 | 4/5/91 |
| 2440 | Dicamba | 16537 | | <0.00001 | EPA515 | 0.00001 | 4/12/91 |
| 2959 | Chlordane | 16537 | | <0.00001 | EPA508 | 0.00001 | 4/5/91 |
| 9114 | Pentachlorophenol | 16537 | | <0.005 | EPA515 | 0.005 | 4/15/91 |

Comments:

Unregulated Base Neutral Extractable Analysis
17-550.410(3)
(PWS036)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2042 | Hexachlorocyclopentadie | 16537 | | <0.001 | EPA508 | 0.001 | 4/12/91 |
| 2063 | Dioxin | 16537 | | <0.00001 | EPA613 | 0.00001 | 4/5/91 |
| 2262 | Isophorone | 16537 | | <0.001 | EPA609 | 0.001 | 4/15/91 |
| 2270 | 2,4-dinitrotoluene | 16537 | | <0.001 | EPA609 | 0.001 | 4/15/91 |
| 2282 | Dimethylphthalate | 16537 | | <0.001 | EPA606 | 0.001 | 4/15/91 |
| 2284 | Diethylphthalate | 16537 | | <0.001 | EPA606 | 0.001 | 4/15/91 |
| 2290 | Di-n-butylphthalate | 16537 | | <0.001 | EPA606 | 0.001 | 4/15/91 |
| 2294 | Butyl benzyl phthalate | 16537 | | <0.001 | EPA606 | 0.001 | 4/15/91 |
| 2298 | Bis(2-ethylhexyl)phthal | 16537 | | <0.001 | EPA606 | 0.001 | 4/15/91 |
| 2378 | 1,2,4-trichlorobenzene | 16537 | | <0.001 | EPA612 | 0.001 | 4/15/91 |
| 2388 | PCB 1016 | 16537 | | <0.0001 | EPA505 | 0.0001 | 4/5/91 |
| 2390 | PCB 1221 | 16537 | | <0.0001 | EPA505 | 0.0001 | 4/5/91 |
| 2392 | PCB 1232 | 16537 | | <0.0001 | EPA505 | 0.0001 | 4/5/91 |
| 2394 | PCB 1242 | 16537 | | <0.0001 | EPA505 | 0.0001 | 4/5/91 |
| 2396 | PCB 1248 | 16537 | | <0.0001 | EPA505 | 0.0001 | 4/5/91 |
| 2398 | PCB 1254 | 16537 | | <0.0001 | EPA505 | 0.0001 | 4/5/91 |
| 2400 | PCB 1260 | 16537 | | <0.0001 | EPA505 | 0.0001 | 4/5/91 |
| 9089 | Dioctylphthalate | 16537 | | <0.001 | EPA606 | 0.001 | 4/15/91 |

Comments:

Unregulated Acid Extractable Analysis
17-550.410(4)
(PWS037)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 9108 | 2-chlorophenol | 16537 | | <0.001 | EPA604 | 0.001 | 4/15/91 |
| 9112 | 2-methyl-4,6-dinitophe | 16537 | | <0.001 | EPA604 | 0.001 | 4/15/91 |
| 9115 | Phenol | 16537 | | <0.001 | EPA604 | 0.001 | 4/15/91 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 9116 | 2,4,6-trichlorophenol | 16537 | <0.001 | EPA604 | 0.001 | 4/15/91 |

Comments:

SSU
SERVICES

**General Offices**
1000 Color Place
Apopka, FL 32703
(407) 880-0058

May 23, 1991

Ms. Marie Carrasquillo
State of Florida
Department of Environmental Regulation
3319 Maguire Boulevard
Suite 232
Orlando, Florida 32803-3767

Re: Venetian Village PWS ID #3351426
Western Shores PWS ID #3351464

Dear Ms. Carrasquillo,

Enclosed please find results on re-takes for the above referenced facilities.

Please enter this information into your records.

Sincerely,

SSU Services

Donald B. Corder

Don Corder
General Supervisor

DC/jlm

cc: Charles Sweat
Clara Dozier

ORLANDO LABORATORIES INC

P.O. Box 149127 • Orlando, Florida 32814

REPORT OF ANALYSIS

Southern States Utilities
1000 Color Place
Apopka, FL 32703

Attn: Don Corder

Work Order # : 91-05-076
Date Received: 05/03/91
Date Reported: 05/14/91
OLI Contact: L_BALTZLEY

Work ID: Western Shores
Samples collected by: Client
Total Samples: 3

| SAMPLE IDENTIFICATION | TEST CODES and NAMES used on this report |
|---|---|
| 01 MN #1 Distribution | MN_ICP Manganese |
| 02 MN #2 Distribution | |
| 03 MN #3 Distribution | |

Copy of results to:

Brian Heath
300 N. Fern Drive
Leesburg, FL 34748

OLI Florida Department of Health & Rehabilitative Service Identification Numbers are: Drinking Water Certification Number 82141, Environmental Certification Number E82033

Respectfully Submitted,
ORLANDO LABORATORIES, INC.

John Hobbs
LABORATORY DIRECTOR

Eric Malarek
QUALITY CONTROL

*Dedicated To Excellence*

(407) 896-6645 (800) 826-6320 FAX (407) 898-6586

ORLANDO LABORATORIES,INC. REPORT OF ANALYSIS Work Order # 91-05-076
Received: 05/03/91 Results by Sample

| | |
|---|---|
| SAMPLE ID MN #1 Distribution | SAMPLE # 01A |
| DATE COLLECTED 05/01/91 16:45:00 | MATRIX WATER |
| MN_ICP <0.030 mg/l | |

| | |
|---|---|
| SAMPLE ID MN #2 Distribution | SAMPLE # 02A |
| DATE COLLECTED 05/02/91 14:00:00 | MATRIX WATER |
| MN_ICP <0.030 mg/l | |

| | |
|---|---|
| SAMPLE ID MN #3 Distribution | SAMPLE # 03A |
| DATE COLLECTED 05/03/91 14:00:00 | MATRIX WATER |
| MN_ICP <0.030 mg/l | |

Southern States Utilities
Attn: Don Corder

Report No: 91-05-076
Page No: 3

QUALITY CONTROL DATA SHEET

| PARAMETER | DUPLICATES % DIFFERENCE | SPIKES % RECOVERY | DATE | ANALYST |
|---|---|---|---|---|
| Manganese | <1 | 85 | 05/06/91 | TB |

**ORLANDO LABORATORIES, INC.**
P.O. Box 149127, Orlando, FL 32814
(407) 896-6645 FAX (407) 898-6588

# CHAIN-OF-CUSTODY RECORD

(INSTRUCTIONS ON BACK)

Page 1 of 1

| 1 INVOICE TO (COMPANY AND INDIVIDUAL) / ADDRESS (CITY, STATE, ZIP) | 2 CONTACT PERSON/PHONE # INVOICE | 3 OLI WORK ORDER # (LAB USE) |
|---|---|---|
| E.S.E. Services 1[illegible] Color Place | 1-800-432-4501 | 9105076 |
| **4 ORIGINAL REPORT TO (COMPANY AND INDIVIDUAL) / ADDRESS (CITY, STATE, ZIP)** | **5 CONTACT PERSON/PHONE # REPORT** | **6 RB NUMBER (LAB USE)** |
| Don Cooper Apopka, Fla. 32703 | 880-0058 | |
| **7 (OPTIONAL) ADDITIONAL REPORTS SENT TO / ADDRESS (CITY, STATE ZIP)** | | |
| Brian Heath 300 N. Zeno Lees, Fla 34748 | | |
| **8 CLIENT PROJECT NAME** | **9 CLIENT PROJECT #** | |
| Western Shores | P0# 111409 | |

| 10 SAMPLE IDENTIFICATION | 11 DATE/TIME | 12 COMP | GRAB | WATER | SOIL | OTHER | 13 SAMPLE DESCRIPTION | 17 NUMBER OF CONTAINERS | 18 REQUESTED ANALYSIS: MO | REMARKS 19 |
|---|---|---|---|---|---|---|---|---|---|---|
| Min #1 | 5-1-91/1645 | | X | X | | | Distribution | 1 | X | |
| Min #2 | 5-2-91/1400 | | X | X | | | " " | 1 | X | |
| Min #3 | 5-3-91/1400 | | X | X | | | " " | 1 | X | |

| TRANSFER NUMBER | 14 RELINQUISHED BY | 15 DATE/TIME | 16 ACCEPTED BY |
|---|---|---|---|
| 1st | S Bradley | 4/30 1350 | |
| 2nd | [signature] | 5/1 11:16 | Deedee Homan |
| 3rd | | | |

20 ADDITIONAL REMARKS

21 COOLER #'s: C-18

22 SAMPLER'S SIGNATURE: [signature]

ORIGINAL - LAB
YELLOW - FILE
PINK - CLIENT

1011

SSU SERVICES

**General Offices**
1000 Color Place
Apopka, FL 32703
(407) 880-0058

June 10, 1991

Ms. Marie Carrasquillo
State of Florida
Department of Environmental Regulation
3319 Maguire Boulevard
Suite 232
Orlando, Florida 32803-3767

Re: Lake County - PW
Venetian Village PWS ID #3351426
Quail Ridge
Palisades

Dear Ms. Carrasquillo,

Enclosed please find results for Volatile Organic analysis as identified for the above referenced facilities.

Please enter thin information into your records.

Sincerely,

SSU Services

Donald B. Corder

Donald B. Corder
Division Supervisor

DBC/jlm

cc: Charles Sweat
Clara Dozier
File

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Jun 4 1991
PO Number: 891037
PO Number SSU
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: COMP. SAMPLE
Date Received: May31 1991
Lab Number : 17041

REPORT OF ANALYSIS

Venadrian Village, Quail Ridge
Palisades

17041

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 95.1 | 6.83 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 104 | .994 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 118 | 17.9 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 118 | 17.9 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 104 | .847 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 102 | 1.74 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 96.8 | 12.0 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 107 | 2.31 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 106 | 3.07 | <0.001 |
| Benzene | mg/L | 0.001 | 95.5 | 11.8 | <0.001 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methods only.

Jefferson S. Flowers, Ph.D.
Technical Director

Page 1 of 1

Jefferson L. Flowers, Ph.D
Jefferson S. Flowers, Ph.D
484 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5954
FAX (407) 260-6410

B-11

CHEMICAL LABORATORIES INCORPORATED

FDER Lab# 880018
FDHRS Lab# 88130
NCDEHNR Lab# 398
SCDHEC Lab# 88018

ANALYTICAL & CONSULTING CHEMISTS
CHAIN OF CUSTODY RECORD
DRINKING WATER 17-550

Dan Corder

(1) Client: Southern States
(2) Address:
(3) Phone: 880-0058 ext 148
(4) Public Drinking Water ID #:
(5) Public Water System Name:
(6) Project # Venetian Village
(7) PO# 891037
(8) Public Water System Type: ( ) Community ( ) Non-Community ( ) Special Non-Community

| (9) | | Preservative | | | Plastic Containers | | | | | | Glass Containers | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | HNO3 | ZnOAc/NaOH | | 60ml | 125ml | 250ml | 500ml | 1L | Wht-Pkg Bag | 40ml | 250ml | 500ml | 1L | 2L | 4L |
| | 4 | | | | | | | | | | | ✓ | | | | ✓ | |
| | 1 | | | | | | | | ✓ | ✓ | | | | | | | |
| | 1 | | ✓ | | | | | ✓ | | | | | | | | | |
| | 1 | | ✓ | | | | | | | | | | | | ✓ | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

NOTES:
(8) Turn Around Time:
10 Working Days:
5 Working Days :
3 Working Days :
1 Working Day :
Other :

(10) Kit Relinquished: (10) Date (10) Time
(11) Kit Received (11) Date (11) Time

2) SAMPLE INFORMATION; SAMPLE DATE: MONTH____ DATE____ YEAR____
SAMPLE TYPE ( check all applicable): ( ) check, ( ) regular distribution
( ) composite, ( ) clearance, ( ) max residence time, ( ) plant tap,
( ) raw, ( ) well, ( ) resample_____, ( ) special_____
SAMPLER'S NAME:_____ TITLE:_____ PHONE:_____
SAMPLER'S SIGNATURE:_____
NOTES:

Temp. ~~78~~ 26°
Cond. 422
PH 6.9
DO 3.4
Cl2 1.2

#1042

2 wells

(13) Parameter Group(s) Analyzed: Turbidity X; Inorganic X; Trihalomethane _; Volatile Organic X; Organic Chemical X; Secondary Chemical X; Radiological X; Unregulated Organic Purgeable X; Unregulated Organic Pesticide X; Unregulated Base Neutral Extractable X; Unregulated Acid Extractable X;

| (14) Laboratory Number | (15) Client Sample Identification |
|---|---|
| 16537 | #1 |
| | #2 |
| | #3 |
| | #4 |
| | #5 |
| | #6 |
| | #7 |
| | #8 |
| | #9 |
| | #10 |

| | | Date | Time |
|---|---|---|---|
| (16) Collectors Signature: | Dana Shaffer | 3-26-91 | 13:45 |
| (17) Transporters Signature: | Dana Shaffer | 3-26-91 | |
| (19) Lab Acceptance By: | | 3/26/91 | 4:25 |

OVER FOR INSTRUCTIONS FOR COMPLETION

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number:_____
Public Water System Name Venetian Village
Public Water System Type (check one):
(✓)Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyz Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___: Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number 17041
Sample Location (be specific): _____
Sample Type (check all applicable):
( )Check ( )Regular Distribution (✓)Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
(✓)Raw (✓)Well ( )Resample
( )Special_____
Sampler Name, Title Phone:_____
_____

**ANALYSIS INFORMATION**
Extraction Date ___/___/____
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTEI Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___: Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature:_____

Name **Dr Jefferson S Flowers**

Title **Technical Director**

Laboratory **Flowers Chemical Laboratories,Inc.**

Date 6/4/91

Mail Results to the
Appropriate DER or ACPHU Office:
_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01
Effective 06/01/8

Sample Interpretation (check one):
() Satisfactory () Unsatisfactory

Volatile Organic Analysis
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 17041 | .00002 | <.000005 | EPA504.1 | .000005 | 6/3/91 |
| 2969 | Para-dichlorobenzene | 17041 | .075 | <0.001 | EPA502.2 | 0.001 | 6/3/91 |
| 2976 | Vinyl chloride | 17041 | 0.001 | <0.001 | EPA502.2 | 0.001 | 6/3/91 |
| 2977 | 1,1-dichloroethene | 17041 | 0.007 | <0.001 | EPA502.2 | 0.001 | 6/3/91 |
| 2980 | 1,2-dichloroethane | 17041 | 0.003 | <0.001 | EPA502.2 | 0.001 | 6/3/91 |
| 2981 | 1,1,1-trichloroethane | 17041 | 0.2 | <0.001 | EPA502.2 | 0.001 | 6/3/91 |
| 2982 | Carbon tetrachloride | 17041 | 0.003 | <0.001 | EPA502.2 | 0.001 | 6/3/91 |
| 2984 | Trichloroethene | 17041 | 0.003 | <0.001 | EPA502.2 | 0.001 | 6/3/91 |
| 2987 | Tetrachloroethene | 17041 | 0.003 | <0.001 | EPA502.2 | 0.001 | 6/3/91 |
| 2990 | Benzene | 17041 | 0.001 | <0.001 | EPA502.2 | 0.001 | 6/3/91 |

Comments:

[redacted]

FDER Lab [redacted]
FDHRS Lab [redacted]
NCDEHNR Lab [redacted]
SCDHEC Lab [redacted]

ANALYTICAL & CONSULTING CHEMISTS
CHAIN OF CUSTODY RECORD
DRINKING WATER 17-550

Don Corder

| (1) Client | (2) Address | (3) Phone |
|---|---|---|
| Southern States Util | 1000 Color Place Apopka, FL. 32703 | 880-0058 X148 |

(4) Public Drinking Water ID #

(5) Public Water System Name: Venetian, Quail Ridge, Palisades (2ND QTR. VOA's)

(6) Project #

(7) PO# 891037

(8) Public Water System Type
( ) Community ( ) Non-Community ( ) Special Non-Community

| | | Preservative | | | | Plastic Containers | | | | | | Glass Containers | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | HNO3 | ZnOAc/NaOH | | | 60ml | 125ml | 250ml | 500ml | 1L | Whirl-Pac Bag | 40ml | 250ml | 500ml | 1L | 2L | 4L |
| | X | | | | | | | | | | | X | | | | | |

NOTES:
Please composite

(9) Turn Around Time:
10 Working Days:
5 Working Days :
3 Working Days :
1 Working Day :
Other :

| (11) Relinquished: | (10) Date | (11) Received | (11) Date |
|---|---|---|---|
| | (11) Time | | (11) Time |

SAMPLE INFORMATION: SAMPLE DATE: MONTH____ DATE____ YEAR____
SAMPLE TYPE ( check all applicable): ( ) check, ( ) regular distribution
( ) composite, ( ) clearance, ( ) max residence time, ( ) plant tap,
( ) raw, ( ) well, ( ) resample_____, ( ) special_____
SAMPLER'S NAME:_____ TITLE:_____ PHONE:_____
SAMPLER'S SIGNATURE:_____
NOTES:

(12) Parameter Group(s) Analysed: Turbidity_; Inorganic_; Trihalomethane_; Volatile Organic X;
Organic Chemical_; Secondary Chemical_; Radiological_; Unregulated Organic Purgeable_;
Unregulated Organic Pesticide ; Unregulated Base Neutral Extractable ; Unregulated Acid Extractable ;

| (14) Laboratory Number | (15) Client Sample Identification |
|---|---|
| 7041 | #1 |
| | #2 |
| | #3 |
| | #4 |
| | #5 |
| | #6 |
| | #7 |
| | #8 |
| | #9 |
| | #10 |

| | | Date | Time |
|---|---|---|---|
| (16) Collectors Signature: | James Shaffer | 5-30-91 | |
| (17) Transporters Signature: | James Shaffer | 5-31-91 | |
| (18) Lab Acceptance By: | K. Sebecaff | 5-31-91 | 12:35pm |

[redacted]

SSU SERVICES

**General Offices**
1000 Color Place
Apopka, FL 32703
(407) 880-0058

August 29, 1991

Ms. Marie Carrasquillo
State of Florida
Department of Environmental Regulation
3319 Maguire Boulevard
Suite 232
Orlando, Florida 32803-3767

Re: Lake County - PW
**Venetian Village PWS ID #3351426**
Quail Ridge PWS ID #3354867
Palisades PWS ID #3354877
Stone Mountain PWS ID #3351282
Sunshine Parkway PWS ID #3350691
Piney Woods/Spring Lake PWS ID #3351021

Dear Ms. Carrasquillo,

Enclosed please find results for Volatile Organic Analysis for the above referenced facilities.

Please enter this information into your records.

Sincerely,

SSU Services

Donald B. Corder

Donald B. Corder
Division Supervisor

DBC/jlm
cc: Charles Sweat
Frank Sanderson
Ralph Terrero
Clara Dozier
File

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Aug23 1991
PO Number: 891037

PO Number SSU
FDHRS Lab# : 83139
FDER Lab# : EB3018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 579/578 567
Date Received: Aug16 1991

Lab Number : 17559

REPORT OF ANALYSIS

Venetian Village
3rd. Qtr. VOCs

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 17559 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 99.9 | 3.87 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 88.8 | 1.44 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 89.8 | 1.56 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 88.8 | 1.56 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 99.9 | .654 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 91.9 | .716 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 91.0 | .626 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 92.2 | .986 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 87.3 | 2.10 | <0.001 |
| Benzene | mg/L | 0.001 | 98.6 | 1.13 | <0.001 |

Data Release Authorization

Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director

Page 1 of 1

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
461 NEWBURYPORT
P.O. BOX 150 591
ALTAMONTE SPRINGS
FLORIDA 32715-0591

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 3351426
Public Water System Name: Venetian Village
Public Water System Type (check one):
(X)Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyzed: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable___;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number 17559
Sample Location (be specific): #1 & #2 Wells
Sample Type (check all applicable):
( )Check ( )Regular Distribution (X)Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
(X)Raw (X)Well ( )Resample
( )Special_____
Sampler Name, Title Phone: Lance Shenefelt - Operator

**ANALYSIS INFORMATION**
Extraction Date ___/___/___
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTED Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable___;

I do HEREBY CERTIFY that all data submitted are correct.

Signature:_____

Name Dr. Jefferson S Flowers

Title Technical Director

Laboratory Flowers Chemical Laboratories,Inc.

Date 8/23/91

Mail Results to the Appropriate DER or ACPHU Office:

_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 06/01/9 () Satisfactory () Unsatisfactory

Volatile Organic Analysis
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 17559 | .00002 | <.000005 | EPA504.1 | .000005 | 8/22/91 |
| 2969 | Para-dichlorobenzene | 17559 | .075 | <0.001 | EPA502.2 | 0.001 | 8/19/91 |
| 2976 | Vinyl chloride | 17559 | 0.001 | <0.001 | EPA502.2 | 0.001 | 8/19/91 |
| 2977 | 1,1-dichloroethene | 17559 | 0.007 | <0.001 | EPA502.2 | 0.001 | 8/19/91 |
| 2980 | 1,2-dichloroethane | 17559 | 0.003 | <0.001 | EPA502.2 | 0.001 | 8/19/91 |
| 2981 | 1,1,1-trichloroethane | 17559 | 0.2 | <0.001 | EPA502.2 | 0.001 | 8/19/91 |
| 2982 | Carbon tetrachloride | 17559 | 0.003 | <0.001 | EPA502.2 | 0.001 | 8/19/91 |
| 2984 | Trichloroethene | 17559 | 0.003 | <0.001 | EPA502.2 | 0.001 | 8/19/91 |
| 2987 | Tetrachloroethene | 17559 | 0.003 | <0.001 | EPA502.2 | 0.001 | 8/19/91 |
| 2990 | Benzene | 17559 | 0.001 | <0.001 | EPA502.2 | 0.001 | 8/19/91 |

Comments:

ANALYTICAL & CONSULTING CHEMISTS
CHAIN OF CUSTODY RECORD

ATTN: Dan Corder
(1) Client: SSU
(2) Address: 1000 Color Place, Apopka, FL 32703
(3) Phone: 880-0058
(4) Public Water System Name:
(5) Project #: 891037
(6) Public Water System Type: [ ] Community [ ] Non-Community [ ] Special Non-Community

| Preservative | | | Plastic Containers | | | | | Glass Containers | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | HNO3 | H2SO4 | 60ml | 125ml | 250ml | 500ml | 1L | 40ml | 125ml | 250ml | 500ml | 1L | 2L |
| 12 | | | | | | | | X | | | | | |

RUSH:
Turn Around Time
10 Working Days:
5 Working Days:
2 Working Days:
1 Working Day:
Other:

(7) RA Relinquished: (8) Date (9) Time
(10) RA Received (11) Date (12) Time

SAMPLE INFORMATION: SAMPLE DATE: MONTH ____ DATE ____ YEAR ____
SAMPLE TYPE (check all applicable): ( ) chlor, ( ) required distribution, ( ) composite, ( ) clearance, ( ) max residence time, ( ) plant tap, ( ) raw, ( ) well, ( ) resample ____, ( ) special ____
SAMPLER'S NAME: ____ TITLE: ____ PHONE: ____
SAMPLER'S SIGNATURE: ____

NOTES:
(1 WELL) Palacades #3354877 #579
(1 WELL) Quail Ridge #3354867 #578
(2 WELLS) Venetian Village #3351426 #567
please composite

(13) Parameter Group(s) Analyzed: Turbidity ___ Inorganic ___ Trihalomethanes ___ Volatile Organics X
Organic Chemical ___ Secondary Chemical ___ Radiological ___ Unregulated Organic Purgeable ___
Unregulated Organic Pesticide ___ Unregulated Base (Neutral Extractable ___ Unregulated Acid Extractable ___

| (14) Laboratory Number | (15) Client Sample Identification |
|---|---|
| 17559 | #1 |
| | #2 |
| | #3 |
| | #4 |
| | #5 |
| | #6 |
| | #7 |
| | #8 |
| | #9 |
| | #10 |

| | | Date | Time |
|---|---|---|---|
| (16) Collectors Signature: | Dawn Shaffer | 5-16-91 | |
| (17) Transporters Signature: | Dawn Shaffer | 5-16-91 | 12:25 |
| (18) Lab Acceptance By: | | 5/16/91 | |

SSU
SERVICES

**General Offices**
1000 Color Place
Apopka, FL 32703
(407) 880-0058

December 18, 1991

Ms. Marie Carrasquillo
State of Florida
Department of Environmental Regulation
3319 Maguire Boulevard
Suite 232
Orlando, Florida 32803-3767

**Re: Lake County Water Treatment Plants**

Dear Ms. Carrasquillo:

Enclosed please find results for Fourth Quarter Volatile Organic Analysis for the following systems:

| | |
|---|---|
| Pineywoods/Spring Lake | PWS ID # 3351021 |
| Sunshine Parkway | PWS ID # 3350691 |
| Stone Mountain | PWS ID # 3351282 |
| Quail Ridge | PWS ID # 3354867 |
| Venetian Village | PWS ID # 3351426 |
| Palisades | PWS ID # 3354877 |

Please enter this information into your records.

Sincerely,

Donald B. Corder

Donald B. Corder
Area Supervisor

\csd

cc: Charles Sweat
Frank Sanderson
Jim Murray
Mel Fisher

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Dec 5 1991
PO Number: B91037

PO Number SSU
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: COMP. SAMPLE
Date Received: Nov26 1991

Lab Number : 18376

REPORT OF ANALYSIS

Venetian Village

18376

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 98.9 | 1.94 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 88.4 | 4.88 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 96.0 | 3.17 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 96.0 | 3.17 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 95.8 | 6.51 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 88.4 | 3.79 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 90.4 | 2.46 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 89.3 | 9.95 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 86.0 | 5.13 | <0.001 |
| Benzene | mg/L | 0.001 | 94.1 | 1.78 | <0.001 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



Jefferson S. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984
FAX (407) 260-6110

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 3351426
Public Water System Name Venetian Village
Public Water System Type (check one):
(M)Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyze Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number 18376
Sample Location (be specific): Plants: Le - #1 & #2 wells
Sample Type (check all applicable):
( )Check ( )Regular Distribution (M)Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
(M)Raw (/)Well ( )Resample
( )Special
Sampler Name, Title Phone: Brian Heath - Head Operator - 880-0058

**ANALYSIS INFORMATION**
Extraction Date ___/___/____
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTEL Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature:

Name **Dr Jefferson S Flowers**

Title **Technical Director**

Laboratory **Flowers Chemical Laboratories,Inc.**

Date 12/4/91

Mail Results to the
Appropriate DER or ACPHU Office:

DER /ACPHU Reviewing Offical:

PWSA.01 Sample Interpretation (check one):
Effective 06/01/8 () Satisfactory () Unsatisfactory

Volatile Organic Analysis
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 18376 | .00002 | <.000005 | EPA504.1 | .000005 | 12/4/91 |
| 2969 | Para-dichlorobenzene | 18376 | .075 | <0.001 | EPA502.2 | 0.001 | 11/27/91 |
| 2976 | Vinyl chloride | 18376 | 0.001 | <0.001 | EPA502.2 | 0.001 | 11/27/91 |
| 2977 | 1,1-dichloroethene | 18376 | 0.007 | <0.001 | EPA502.2 | 0.001 | 11/27/91 |
| 2980 | 1,2-dichloroethane | 18376 | 0.003 | <0.001 | EPA502.2 | 0.001 | 11/27/91 |
| 2981 | 1,1,1-trichloroethane | 18376 | 0.2 | <0.001 | EPA502.2 | 0.001 | 11/27/91 |
| 2982 | Carbon tetrachloride | 18376 | 0.003 | <0.001 | EPA502.2 | 0.001 | 11/27/91 |
| 2984 | Trichloroethene | 18376 | 0.003 | <0.001 | EPA502.2 | 0.001 | 11/27/91 |
| 2987 | Tetrachloroethene | 18376 | 0.003 | <0.001 | EPA502.2 | 0.001 | 11/27/91 |
| 2990 | Benzene | 18376 | 0.001 | <0.001 | EPA502.2 | 0.001 | 11/27/91 |

Comments:

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

FDER Lab# E83018
FDHRS Lab# 82128
NELAC-NR Lab# 294
SCDHEC Lab# 99019

ANALYTICAL & CONSULTING CHEMISTS
CHAIN OF CUSTODY RECORD
DRINKING WATER 17-550

(1)Client: Suwannee Strtcb

(2)Address: 1621 Lola Pl. Tampa 32703

(3)Phone: 880-0858 ext 148

(4)Public Drinking Water ID #:

(5)Public Water System Name:

(6)Project #:

(7)PO# 74-1031

(8)Public Water System Type:
( ) Community ( ) Non-Community ( ) Special Non-Community

| | Preservative | | | Plastic Containers | | | | | | Glass Containers | | | | | | NOTES: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | HNO3 | ZnOAc/NaOH | | 60ml | 125ml | 250ml | 500ml | 1L | Whirl-Pac Bag | 40ml | 250ml | 500ml | 1L | 2L | 4L | |
| (16) | | | | | | | | | | | X | | | | | | |

(12)Turn Around Time:
10 Working Days:
5 Working Days :
3 Working Days :
1 Working Day :
Other :

1- Palisades
1- Quail Ridge
2- Venetian Village
(across comp.)

(17)Kit Relinquished: (17)Date: (17)Time:

(9)Kit Received: (9)Date: (9)Time:

(10)Parameter Group(s) Analysed: Turbidity__; Inorganic__; Trihalomethane__; Volatile Organic X; Organic Chemical__; Secondary Chemical__; Radiological__; Unregulated Organic Purgeable__; Unregulated Organic Pesticide__; Unregulated Base Neutral Extractable__; Unregulated Acid Extractable__

(18)Laboratory Number: 18376

(11)Client Sample Identification:

#1 578 Well - Quails Ridge
#2 5167 Well #1 - Venetian Village
#3 5167 Well #2 - Venetian Village
#4 579 Well #1 - Palisades
#5
#6
#7
#8
#9
#10

(13)Collectors Signature: [signature] Date: 11-26-91 Time: 10:30 am

(14)Transporters Signature: [signature] Date: 11-26-91 Time: 3:30pm

(15)Lab Acceptance By: [signature] Date: 11-26-91 Time: 3:30pm

Over for numbered instructions.

HRS

State of Florida
Department of Health and Rehabilitative Services
Office of Laboratory Services
P.O. Box 210
Jacksonville, Florida 32231

NO 13083

RECEIVED
DEC 17 1991
INSTRUCTIONS

12/12

# DRINKING WATER
# BACTERIOLOGICAL ANALYSIS

SYSTEM NAME: Venetian Village #567 SYSTEM I.D. NO: 3351426 SYSTEM PHONE #: 904-787-4504

ADDRESS: Tami Owen COUNTY: Lake DER DISTRICT: Central

COLLECTOR: Dennis W. Moore COLLECTOR PHONE #: 904-326-4420

SAMPLE SITE (Locality or Subdivision): Tavares

DATE AND TIME COLLECTED: 12/11/91 11:00am

TYPE OF SUPPLY(Circle one): (Community water system) Noncommunity water system Nontransient - noncommunity water system
Private well Swimming pool Bottled water Other public water system

TYPE OF SAMPLE(Circle one): (Compliance) Repeat Replacement Main clearance Well survey Other _____
(Check Box) (Check Box) (Specify)
[ ] Distribution [ ] TNTC or
[ ] Raw [ ] Turbid

REMARKS:

| TO BE COMPLETED BY COLLECTOR OF SAMPLE | | | | TO BE COMPLETED BY LAB | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ANALYSIS METHOD: MMO-MUG | | MTF | | MMO-MUG | PA |
| COLL. NO. | SAMPLE POINT (Specific Address) | CL RES'D | PH | SAMPLE NUMBER | NON-COLIFORM | TOTAL | | CONFIRM TOTAL | CONFIRM FECAL |
| W-1 | Well #1 | 0 | | 053334 | | A | | | |
| W-2 | Well #2 | 0 | | 053335 | | A | | | |
| T | Tank | 12 | | 053336 | | A | | | |
| R-1 | 27546 Lori | 10 | | 053337 | | A | | | |
| R-2 | 28744 Tami | 9 | | 053338 | | A | | | |
| | | | | | | | | | |
| | | | | | | | | | |

* Results in this column are preliminary. Fecal coliform confirmation on community and noncommunity water systems and total coliform confirmation on all types of water systems will follow in 24-48 hours.

P - Coliforms are present C - Confluent growth TA - Turbid, Absence of gas or acid
A - Coliforms are absent TNTC - Too numerous to count

INTERPRETATIONS-REMARKS BY PROGRAM REVIEWER

NAME AND MAILING ADDRESS OF PERSON/FIRM TO RECEIVE REPORT

SSU Services
1000 Color Place
Apopka, Florida 32703

( )
(X) SATISFACTORY
( ) INCOMPLETE COLLECTION INFORMATION
( ) REPEAT SAMPLES
( ) REPLACEMENT SAMPLES

REVIEWING OFFICIAL: JK

TITLE: DER

1883 Form 681, Jan 91 (Obsolete previous editions which may not be used) (Stock Number 5760-000-0681-1)

# Welaka - 447

**Putnam County (SSU)**

**Water**

## - 1992 FPSC Filing -

# Welaka

## Chemical Analyses

The most recent chemical analyses for the water system conducted by a certified laboratory covering the inorganic, organic, turbidity, microbiological, radionuclide, secondary and unregulated contaminants.

| Chemical Analysis | Date Taken |
|---|---|
| Inorganic | 1/89 |
| Organic | 1/89 |
| Volatile Organic Chemicals | 1/91 |
| | 4/91 |
| | 7/91 |
| | 10/91 |
| Turbidity | 1/89 |
| Microbiological | 12/91 |
| Radionuclide | 1/89 |
| Secondary Contaminants | 1/89 |
| Unregulated Contaminants | 1/91 |

SJU SERVICES
Putnam County Office
P. O. Box 458
Pomona Park, FL 32181

TO FRANK S- Clara T.

Date: April 9, 1991

To: Jim Maher

Re: First Quarter 1991 VOC & UC analysis results

Enclosed are copies of VOC & UC analysis results. As discussed in our conversation, we grouped our wells for this procedure. The grouping was as follows:

| SAMPLE # | PLANTS INCLUDED IN SAMPLE | ID NUMBERS |
|---|---|---|
| # 1 | Interlachen Lake Estates | 2540545 |
| | Park Manor | 2540873 |
| | Silver Lake Oaks | 2544258 |
| # 2 | River Park # 1 | 2540962 |
| | River Park # 2 | 2540963 |
| | River Park # 3 | 2540964 |
| | Wootens | 2541280 |
| # 3 | Pomona Park | 2540905 |
| | Hermits Cove | 2540482 |
| | Palm Port | 2540865 |
| | River Grove | 2540959 |
| # 4 | Beechers Point | 2540070 |
| | Welaka Mobile Home Park | 2541242 |
| | Saratoga Harbor | 2541000 |
| | St. Johns Highlands | 2540489 |

If you have any questions, please call either Jerry Boyd or Paul Thompson at 904-649-4143.

Copies: Charles Sweat
J.J. Welsh
File

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

GROUP 4

Received From:

SSU
110 Church St
PompanoPrk,FL 32181

Date Reported: Feb26 1991
PO Number: Putnam Co.
PO Number 891028
FDHRS Lab# : 83139
FDER Lab# : EB3018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 4
Date Received: Jan30 1991 Lab Number : 16156

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16156 |
|---|---|---|---|---|---|
| Dinoseb | mg/L | 0.00001 | 3.80 | 2.00 | <0.00001 |
| Aldicarb sulfoxide | mg/L | 0.002 | 91.0 | 3.89 | <0.002 |
| Aldicarb sulfone | mg/L | 0.002 | 89.5 | 3.16 | <0.002 |
| Metolachlor | mg/L | 0.0005 | 98.1 | 3.01 | <0.0005 |
| Carbofuran | mg/L | 0.001 | 91.0 | 2.33 | <0.001 |
| Aldicarb | mg/L | 0.002 | 105 | 3.70 | <0.002 |
| Atrazine | mg/L | 0.002 | 106 | 0.78 | <0.002 |
| Alachlor (Lasso) | mg/L | 0.0002 | 110 | 1.00 | <0.0002 |
| Heptachlor | mg/L | 0.000005 | 103 | .550 | <0.000005 |
| Aldrin | mg/L | 0.00007 | 117 | 1.46 | <0.00007 |
| Dieldrin | mg/L | 0.00001 | 94.8 | 2.09 | <0.00001 |
| Dicamba | mg/L | 0.00001 | 2.95 | 2.00 | <0.00001 |
| Chlordane | mg/L | 0.00001 | 117 | 1.46 | <0.00001 |
| Pentachlorophenol | mg/L | 0.005 | 1.42 | .500 | <0.005 |
| Hexachlorocyclopenta | mg/L | 0.001 | 100 | 1.94 | <0.001 |
| Dioxin | mg/L | 0.00001 | 101 | 2.47 | <0.00001 |
| Isophorone | mg/L | 0.001 | 99 | 1.41 | <0.001 |
| 2,4-dinitrotoluene | mg/L | 0.001 | 103 | 3.53 | <0.001 |
| Dimethylphthalate | mg/L | 0.001 | 100 | 0.34 | <0.001 |
| Diethylphthalate | mg/L | 0.001 | 98.6 | 2.02 | <0.001 |
| Di-n-butylphthalate | mg/L | 0.001 | 101 | 0.79 | <0.001 |
| Butyl benzyl phthala | mg/L | 0.001 | 97.7 | 3.38 | <0.001 |
| Bis(2-ethylhexyl)pht | mg/L | 0.001 | 99.2 | 1.11 | <0.001 |
| 1,2,4-trichlorobenze | mg/L | 0.001 | 99.7 | 0.37 | <0.001 |
| PCB_1016 | mg/L | 0.0001 | 102 | 3.04 | <0.0001 |
| PCB_1221 | mg/L | 0.0001 | 98.4 | .862 | <0.0001 |

Data Release Authorization

Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
881 NEWBERRY ROAD
P.O. BOX 150577
ALTAMONTE SPRINGS
FLORIDA 32715-0577
BUS. (407) 331-7284
FAX (407) 331-7288

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
110 Church St
PompanoPrk,FL 32181

Date Reported: Feb26 1991
PO Number : Putnam Co.
PO Number 891028
FDHRS Lab# : 83139
FDER Lab# : EB3018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 4
Date Received: Jan30 1991 Lab Number : 16156

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16156 |
|---|---|---|---|---|---|
| Bromoform | mg/L | 0.001 | 115 | 8.58 | <0.001 |
| Bromodichloromethane | mg/L | 0.001 | 102 | 3.61 | <0.001 |
| Dibromochloromethane | mg/L | 0.001 | 109 | 2.82 | <0.001 |
| p-xylene | mg/L | 0.001 | 97.0 | 2.10 | <0.001 |
| Methylene chloride | mg/L | 0.001 | 109 | .858 | <0.001 |
| o-chlorotoluene | mg/L | 0.001 | 104 | 1.19 | <0.001 |
| p-chlorotoluene | mg/L | 0.001 | 93.4 | 1.89 | <0.001 |
| m-dichlorobenzene | mg/L | 0.001 | 115 | .495 | <0.001 |
| o-dichlorobenzene | mg/L | 0.001 | 111 | .180 | <0.001 |
| 1,1-dichloroethane | mg/L | 0.001 | 100 | 1.31 | <0.001 |
| trans-1,2-dichloroet | mg/L | 0.001 | 107 | 0.72 | <0.001 |
| 1,2-dichloropropane | mg/L | 0.001 | 99.1 | .590 | <0.001 |
| 1,1,2-trichloroethan | mg/L | 0.001 | 114 | .841 | <0.001 |
| 1,1,1,2-tetrachloroe | mg/L | 0.001 | 110 | 1.16 | <0.001 |
| 1,1,2,2-tetrachloroe | mg/L | 0.001 | 120 | 2.20 | <0.001 |
| Chlorobenzene | mg/L | 0.001 | 101 | .116 | <0.001 |
| Toluene | mg/L | 0.001 | 93.4 | 1.89 | <0.001 |
| Ethylbenzene | mg/L | 0.001 | 92.9 | 1.29 | <0.001 |
| Bromobenzene | mg/L | 0.001 | 101 | .116 | <0.001 |
| m-xylene | mg/L | 0.001 | 97.0 | 2.10 | <0.001 |
| Styrene | mg/L | 0.001 | 93.4 | 1.89 | <0.001 |
| o-xylene | mg/L | 0.001 | 97.0 | 2.10 | <0.001 |
| Dalapon | mg/L | 0.000001 | 1.07 | 2.00 | <0.000001 |
| Oxamyl (Vydate) | mg/L | 0.002 | 95.8 | 1.85 | <0.002 |
| Simazine | mg/L | 0.007 | 2.63 | 1.5 | <0.007 |
| Picloram | mg/L | 0.00007 | 1.47 | 1.00 | <0.00007 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director

Jefferson S. Flowers Ph.D.
Jefferson S. Flowers Ph.D.
ANN NEWPORT (1973)
P.O. BOX 1510 552
ALTAMONTE SPRINGS
FLORIDA 32715 0597
BUS 407 339 5554
FAX 407 339 5556

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU
110 Church St
PompanoPrk,FL 32181

Date Reported: Feb26 1991
PO Number : Putnam Co.
PO Number B91028
FDHRS Lab# : 83139
FDER Lab# : EB3018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 4
Date Received: Jan30 1991 Lab Number : 16156

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16156 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | .000005 | 107 | .899 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 106 | 0.81 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 104 | 0.70 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 104 | 0.70 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 104 | 2.80 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 108 | 3.07 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 112 | 5.08 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 115 | 3.15 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 113 | 3.0 | <0.001 |
| Benzene | mg/L | 0.001 | 111 | 2.81 | <0.001 |
| Chloromethane | mg/L | 0.001 | 109 | .858 | <0.001 |
| Dichlorodifluorometh | mg/L | 0.001 | 100 | .702 | <0.001 |
| Bromomethane | mg/L | 0.001 | 109 | .858 | <0.001 |
| Chloroethane | mg/L | 0.001 | 104 | .542 | <0.001 |
| Trichlorofluorometha | mg/L | 0.001 | 100 | .702 | <0.001 |
| trans-1,3,-dichlorop | mg/L | 0.001 | 107 | 7.14 | <0.001 |
| cis-1,3-dichloroprop | mg/L | 0.001 | 117 | 1.36 | <0.001 |
| Methyl-tert-butyleth | mg/L | 0.001 | 111 | 6.74 | <0.001 |
| cis-1,2-dichloroethe | mg/L | 0.001 | 117 | 1.36 | <0.001 |
| Dibromomethane | mg/L | 0.001 | 109 | .858 | <0.001 |
| 1,1-dichloropropene | mg/L | 0.001 | 106 | 6.2 | <0.001 |
| 1,3-dichloropropane | mg/L | 0.001 | 107 | 7.14 | <0.001 |
| 1,2,3-trichloropropa | mg/L | 0.001 | 105 | 5.27 | <0.001 |
| 2,2-dichloropropane | mg/L | 0.001 | 104 | .542 | <0.001 |
| 1,2-dibromo-3-chloro | mg/L | 0.001 | 105 | 5.27 | <0.001 |
| Chloroform | mg/L | 0.001 | 99.1 | 1.06 | <0.001 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director

Jefferson S. Flowers, Ph.D.
481 Newburyport
P.O. Box 140572
Altamonte Springs
Florida 32714-0572
Bus. 407-862-1444

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
110 Church St
PompanoPrk,FL 32181

Date Reported: Feb26 1991
PO Number: Putnam Co.
PO Number 891028
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 4
Date Received: Jan30 1991 Lab Number : 16156

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16156 |
|---|---|---|---|---|---|
| PCB_1232 | mg/L | 0.0001 | 110 | 7.32 | <0.0001 |
| PCB_1242 | mg/L | 0.0001 | 99.1 | 1.86 | <0.0001 |
| PCB_1248 | mg/L | 0.0001 | 102 | 3.04 | <0.0001 |
| PCB_1254 | mg/L | 0.0001 | 110 | 7.32 | <0.0001 |
| PCB_1260 | mg/L | 0.0001 | 102 | 3.04 | <0.0001 |
| Dioctylphthalate | mg/L | 0.001 | 98.9 | 1.55 | <0.001 |
| 2-chlorophenol | mg/L | 0.001 | 101 | 2.05 | <0.001 |
| 2-methyl-4,6-dinitop | mg/L | 0.001 | 106 | 7.47 | <0.001 |
| Phenol | mg/L | 0.001 | 84.1 | 26.7 | <0.001 |
| 2,4,6-trichloropheno | mg/L | 0.001 | 93.3 | 10.1 | <0.001 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWPORT DRIVE
P.O. BOX 150527
ALTAMONTE SPRINGS
FLORIDA 32715-0527
BUS (407) 339-5294
FAX (407) 339-5296

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number:_____
Public Water System Name Welaka
Public Water System Type (check one):
( )Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyzi Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable_X_; Unregulated Organic Pesticide_X_;
Unregulated Base Neutral Extractable_X_;Unregulated Acid Extractable__X_;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number 16158
Sample Location (be specific): _____
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
( )Raw ( )Well ( )Resample
( )Special_____
Sampler Name, Title Phone:_____
_____

**ANALYSIS INFORMATION**
Extraction Date 2/13/91
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTED Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature:_____

Name Dr. Jefferson S Flowers

Title Technical Director

Laboratory Flowers Chemical Laboratories,Inc.

Date 2/22/91

Mail Results to the Appropriate DER or ACPHU Office:
_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 08/01/( () Satisfactory () Unsatisfactory

## Volatile Organic Analysis
17-550.310(2)(d)
(PWS029)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 16156 | .00002 | <0.000005 | EPA504.1 | .000005 | 2/19/91 |
| 2969 | Para-dichlorobenzene | 16156 | .075 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2976 | Vinyl chloride | 16156 | 0.001 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2977 | 1,1-dichloroethene | 16156 | 0.007 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2980 | 1,2-dichloroethane | 16156 | 0.003 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2981 | 1,1,1-trichloroethane | 16156 | 0.2 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2982 | Carbon tetrachloride | 16156 | 0.003 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2984 | Trichloroethene | 16156 | 0.003 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2987 | Tetrachloroethene | 16156 | 0.003 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2990 | Benzene | 16156 | 0.001 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |

Comments:

## Unregulated Organic Purgeable Analysis
17-550.410(1)
(PWS034)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2210 | Chloromethane | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2212 | Dichlorodifluoromethane | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2214 | Bromomethane | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2216 | Chloroethane | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2218 | Trichlorofluoromethane | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2224 | trans-1,3,-dichloropropi | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2226 | cis-1,3-dichloropropene | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2251 | Methyl-tert-butylether | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2380 | cis-1,2-dichloroethene | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2408 | Dibromomethane | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2410 | 1,1-dichloropropene | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2412 | 1,3-dichloropropane | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2414 | 1,2,3-trichloropropane | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2416 | 2,2-dichloropropane | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2931 | 1,2-dibromo-3,chloropr | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2941 | Chloroform | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2942 | Bromoform | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2943 | Bromodichloromethane | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2944 | Dibromochloromethane | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2962 | p-xylene | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2964 | Methylene chloride | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2965 | o-chlorotoluene | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2966 | p-chlorotoluene | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2967 | m-dichlorobenzene | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2968 | o-dichlorobenzene | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2978 | 1,1-dichloroethane | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2979 | trans-1,2-dichloroethyl | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2983 | 1,2-dichloropropane | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2985 | 1,1,2-trichloroethane | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2986 | 1,1,1,2-tetrachloroetha | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2988 | 1,1,2,2-tetrachloroetha | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2989 | Chlorobenzene | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2991 | Toluene | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2992 | Ethylbenzene | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2993 | Bromobenzene | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2995 | m-xylene | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2996 | Styrene | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2997 | o-xylene | 16156 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |

Comments:

Unregulated Organic Pesticide Analysis
17-550.410(2)
(PWS035)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2031 | Dalapon | 16156 | | <0.000001 | EPA515 | .000001 | 2/21/91 |
| 2036 | Oxamyl (Vydate) | 16156 | | <0.002 | EPA531 | 0.002 | 2/18/91 |
| 2037 | Simazine | 16156 | | <0.007 | EPA505 | 0.007 | 2/21/91 |
| 2040 | Picloram | 16156 | | <0.00007 | EPA515 | 0.00007 | 2/21/91 |
| 2041 | Dinoseb | 16156 | | <0.00001 | EPA515 | 0.00001 | 2/21/91 |
| 2043 | Aldicarb sulfoxide | 16156 | | <0.002 | EPA531 | 0.002 | 2/18/91 |
| 2044 | Aldicarb sulfone | 16156 | | <0.002 | EPA531 | 0.002 | 2/18/91 |
| 2045 | Metolachlor | 16156 | | <0.0005 | EPA505 | 0.0005 | 2/21/91 |
| 2046 | Carbofuran | 16156 | | <0.001 | EPA531 | 0.001 | 2/18/91 |
| 2047 | Aldicarb | 16156 | | <0.002 | EPA531 | 0.002 | 2/18/91 |
| 2050 | Atrazine | 16156 | | <0.002 | EPA505 | 0.002 | 2/21/91 |
| 2051 | Alachlor (Lasso) | 16156 | | <0.0002 | EPA505 | 0.0002 | 2/21/91 |
| 2065 | Heptachlor | 16156 | | <.000005 | EPA508 | .000005 | 2/21/91 |
| 2356 | Aldrin | 16156 | | <0.00007 | EPA508 | 0.00007 | 2/21/91 |
| 2384 | Dieldrin | 16156 | | <0.00001 | EPA508 | 0.00001 | 2/21/91 |
| 2440 | Dicamba | 16156 | | <0.00001 | EPA515 | 0.00001 | 2/21/91 |
| 2959 | Chlordane | 16156 | | <0.00001 | EPA508 | 0.00001 | 2/21/91 |
| 9114 | Pentachlorophenol | 16156 | | <0.005 | EPA515 | 0.005 | 2/14/91 |

Comments:

Unregulated Base Neutral Extractable Analysis
17-550.410(3)
(PWS036)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2042 | Hexachlorocyclopentadie | 16156 | | <0.001 | EPA508 | 0.001 | 2/21/91 |
| 2063 | Dioxin | 16156 | | <0.00001 | EPA613 | 0.00001 | 2/21/91 |
| 2262 | Isophorone | 16156 | | <0.001 | EPA609 | 0.001 | 2/14/91 |
| 2270 | 2,4-dinitrotoluene | 16156 | | <0.001 | EPA609 | 0.001 | 2/14/91 |
| 2282 | Dimethylphthalate | 16156 | | <0.001 | EPA606 | 0.001 | 2/14/91 |
| 2284 | Diethylphthalate | 16156 | | <0.001 | EPA606 | 0.001 | 2/14/91 |
| 2290 | Di-n-butylphthalate | 16156 | | <0.001 | EPA606 | 0.001 | 2/14/91 |
| 2294 | Butyl benzyl phthalate | 16156 | | <0.001 | EPA606 | 0.001 | 2/14/91 |
| 2298 | Bis(2-ethylhexyl)phthal | 16156 | | <0.001 | EPA606 | 0.001 | 2/14/91 |
| 2378 | 1,2,4-trichlorobenzene | 16156 | | <0.001 | EPA612 | 0.001 | 2/14/91 |
| 2388 | PCB-1016 | 16156 | | <0.0001 | EPA505 | 0.0001 | 2/21/91 |
| 2390 | PCB-1221 | 16156 | | <0.0001 | EPA505 | 0.0001 | 2/21/91 |
| 2392 | PCB-1232 | 16156 | | <0.0001 | EPA505 | 0.0001 | 2/21/91 |
| 2394 | PCB-1242 | 16156 | | <0.0001 | EPA505 | 0.0001 | 2/21/91 |
| 2396 | PCB-1248 | 16156 | | <0.0001 | EPA505 | 0.0001 | 2/21/91 |
| 2398 | PCB-1254 | 16156 | | <0.0001 | EPA505 | 0.0001 | 2/21/91 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 2400 | PCB-1260 | 16156 | | <0.0001 | EPA505 | 0.0001 | 2/21/91 |
| 9089 | Dioctylphthalate | 16156 | | <0.001 | EPA606 | 0.001 | 2/14/91 |

Comments:

Unregulated Acid Extractable Analysis
17-550.410(4)
(PWS037)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 9108 | 2-chlorophenol | 16156 | | <0.001 | EPA604 | 0.001 | 2/14/91 |
| 9112 | 2-methyl-4,6-dinitrophe | 16156 | | <0.001 | EPA604 | 0.001 | 2/14/91 |
| 9115 | Phenol | 16156 | | <0.001 | EPA604 | 0.001 | 2/14/91 |
| 9116 | 2,4,6-trichlorophenol | 16156 | | <0.001 | EPA604 | 0.001 | 2/14/91 |

Comments:

To: Jim Meyer, DEP

RE: 2nd Quarter 1991 VOC, analysis results.

Dear Mr. Meyer,

Enclosed are copies of our 2nd Quarter 1991 VOC analysis results. As discussed in our earlier conversation with you, we grouped our wells for this procedure. The grouping was as follows:

| SAMPLE # | PLANTS INCLUDED IN SAMPLE | | ID. # |
|---|---|---|---|
| #1 | Interlachen Lakes Estates | #470 | 2540545 |
| | Park Manor | #444 | 2540073 |
| | Silver Lake Oaks | #473 | 2544250 |
| #2 | River Park #1 | #439[1] | 2540962 |
| | River Park #2 | #439[2] | 2540963 |
| | River Park #3 | #439[3] | 2540964 |
| | Woolems | #446 | 2541280 |
| #3 | Pomona Park | #443 | 2540905 |
| | Hermits Cove | #438 | 2540482 |
| | Palm Port | #440 | 2540865 |
| | River Grove | #442 | 2540959 |
| #4 | Beechers Point | #472 | 2540070 |
| | Welaka Mobile Home Park | #447 | 2541242 |
| | Saratoga Harbor | #448 | 2541008 |
| | St. Johns Highlands | #471 | 2540489 |

If you have any questions, please call either Jerry Boyd or myself at (904)649-4141.

Thank you,

Paul D. Thompson
Lead Operator, Putnam County
SWU Operations

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU
PO Box 458
PomonaPrk,FL 32181

Date Reported: Apr29 1991
PO Number: 891028
PO Number SSU Serv.
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 4
Date Received: Apr17 1991 Lab Number : 16692

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16692 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 98.6 | 7.34 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 105 | 5.74 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 100 | 3.53 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 100 | 3.53 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 107 | 5.79 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 102 | 3.96 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 103 | 1.43 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 102 | 8.39 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 95.4 | 3.99 | <0.001 |
| Benzene | mg/L | 0.001 | 103 | 2.23 | <0.001 |

Date Release Authorization

Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson C. Flowers, Ph.D.
Technical Director



Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
451 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984
FAX (407) 260-6110

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number:_____
Public Water System Name Welaka
Public Water System Type (check one):
( )Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyzed Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number 16592
Sample Location (be specific): _____
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
( )Raw ( )Well ( )Resample
( )Special_____
Sampler Name, Title Phone:_____
_____

**ANALYSIS INFORMATION**
Extraction Date ___/___/____
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTED Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature:_____

Name Dr Jefferson S Flowers

Title Technical Director

Laboratory Flowers Chemical Laboratories,Inc.

Date 4/27/91

Mail Results to the Appropriate DER or ACPHU Office:
_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 06/01/8 () Satisfactory () Unsatisfactory

Volatile Organic Analysis
17-550.310(2)(d)
(PWS029)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 16692 | .00002 | <.000005 | EPA504.1 | .000005 | 4/26/91 |
| 2969 | Para-dichlorobenzene | 16692 | .075 | <0.001 | EPA502.2 | 0.001 | 4/25/91 |
| 2976 | Vinyl chloride | 16692 | 0.001 | <0.001 | EPA502.2 | 0.001 | 4/25/91 |
| 2977 | 1,1-dichloroethene | 16692 | 0.007 | <0.001 | EPA502.2 | 0.001 | 4/25/91 |
| 2980 | 1,2-dichloroethane | 16692 | 0.003 | <0.001 | EPA502.2 | 0.001 | 4/25/91 |
| 2981 | 1,1,1-trichloroethane | 16692 | 0.2 | <0.001 | EPA502.2 | 0.001 | 4/25/91 |
| 2982 | Carbon tetrachloride | 16692 | 0.003 | <0.001 | EPA502.2 | 0.001 | 4/25/91 |
| 2984 | Trichloroethene | 16692 | 0.003 | <0.001 | EPA502.2 | 0.001 | 4/25/91 |
| 2987 | Tetrachloroethene | 16692 | 0.003 | <0.001 | EPA502.2 | 0.001 | 4/25/91 |
| 2990 | Benzene | 16692 | 0.001 | <0.001 | EPA502.2 | 0.001 | 4/25/91 |

Comments:

# ORLANDO LABORATORIES INC

P.O. Box 149127 • Orlando, Florida 32814

REPORT OF ANALYSIS

Southern States Utilities
P.O. Box 458
Pamona Park, FL 32181

Attn: Paul Thompson

Work Order # : 91-07-477
Date Received: 07/31/91
Date Reported: 08/07/91
OLI Contact: L BALTZLEY

Work ID: Southern States Utilities
Samples collected by: Client
Total Samples: 2

| SAMPLE IDENTIFICATION | TEST CODES and NAMES used on this report |
|---|---|
| 01 Composite #1 | 1COMP Composite Data For Samples |
| 02 Method Blank | PWS028 Volatile Organic Analysis |

Copy of report to:

Jerry Boyd
P.O. Box 458
Pamona Park, FL 32181

OLI Florida Department of Health & Rehabilitative Service Identification Numbers are: Drinking Water Certification Number 83141, Environmental Certification Number 880313

Respectfully Submitted,
ORLANDO LABORATORIES, INC.

John Hobbs
LABORATORY DIRECTOR

Eric Halarek
QUALITY CONTROL

*Dedicated To Excellence*

(407) 896-6645 (800) 826-8320 FAX (407) 898-6588

IPL ANALYTICAL LABORATORIES, INC.
Received: 07/31/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91 [illegible]

SAMPLE ID Composite #1
DATE COLLECTED not specified
TEST NAME Composite Data For Samples

SAMPLE# 013
MATRIX WATER
TEST CODE [illegible]

NUMBER OF SAMPLES COMPOSITED:

| | Sample Identification | Date and time |
|---|---|---|
| #1 | Beechers Point | 07/30/91 10:30 |
| #2 | Welaka MHP | 07/30/91 10:30 |
| #3 | Sarratoga Harbor | 07/30/91 10:30 |
| #4 | St. Johns | 07/30/91 10:30 |
| #5 | | |
| #6 | | |
| #7 | | |
| #8 | | |
| #9 | | |
| #10 | | |
| #11 | | |
| #12 | | |

ORLANDO LABORATORIES,INC.
Received: 07/31/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 31-07-177

SAMPLE ID Composite #1
DATE COLLECTED not specified
TEST NAME Volatile Organic Analysis

SAMPLE# 010
MATRIX WATER
TEST CODE PWS023

VOLATILE ORGANIC ANALYSIS
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | | | <0.00002 | EPA 504 | 0.00002 | 08/01/91 |
| 2969 | Para-dichlorobenzene | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2976 | Vinyl Chloride | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2977 | 1,1-Dichloroethene | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2980 | 1,2-Dichloroethane | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2981 | 1,1,1-trichloroethane | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2982 | Carbon Tetrachloride | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2984 | Trichloroethene | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2987 | Tetrachloroethene | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2990 | Benzene | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |

Comments:

ORLANDO LABORATORIES,INC.
Received: 07/31/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-07-127

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME Volatile Organic Analysis

SAMPLE# 020
MATRIX METHOD BLANK
TEST CODE PWS028

VOLATILE ORGANIC ANALYSIS
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | | | <0.00002 | EPA 504 | 0.00002 | 08/01/91 |
| 2969 | Para-dichlorobenzene | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2976 | Vinyl Chloride | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2977 | 1,1-Dichloroethene | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2980 | 1,2-Dichloroethane | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2981 | 1,1,1-trichloroethane | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2982 | Carbon Tetrachloride | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2984 | Trichloroethene | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2987 | Tetrachloroethene | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2990 | Benzene | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |

Comments:

# ORLANDO LABORATORIES INC.

## GC/MS VOLATILE ORGANICS

## MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 08-01-1991

LAB SAMPLE # : 9107484-2 524
ANALYSIS DATE : 7/31/91

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| 1,1-dichloroethene | 50 | 0 | 35 | 70 | 39 | 78 | 11 |
| trichloroethene | 50 | 0 | 53 | 106 | 51 | 102 | 4 |
| benzene | 50 | 0 | 50 | 100 | 48 | 96 | 4 |
| toluene | 50 | 0 | 49 | 98 | 49 | 98 | 0 |
| chlorobenzene | 50 | 0 | 47 | 94 | 47 | 94 | 0 |

COMMENTS :

### MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| 1,1-dichloroethene | 64 | 137 | 19 | 50 | 142 | 22 |
| trichloroethene | 76 | 124 | 24 | 70 | 128 | 25 |
| benzene | 77 | 113 | 25 | 64 | 134 | 26 |
| toluene | 65 | 125 | 20 | 69 | 132 | 24 |
| chlorobenzene | 71 | 123 | 24 | 72 | 124 | 20 |

ORLANDO LABORATORIES, INC. Page No: 5

GC ORGANICS

# MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 08-05-1991

LAB SAMPLE # : 9107-147-01A
ANALYSIS DATE : 08/01/91

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| Ethylene Dibromide | 100 | 0 | 54 | 54 | 47 | 47 * | 14 |
| Dibromochloropropane | 100 | 0 | 67 | 67 | 59 | 59 * | 13 |

COMMENTS : *. = parameter outside QC limits.

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| Ethylene Dibromide | 50 | 100 | 30 | 35 | 100 | 30 |
| Dibromochloropropane | 65 | 110 | 30 | 60 | 110 | 30 |

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number: _____
Public Water System Name: Wekiva
Public Water System Type (check one):
( ) Community ( ) Non-Community ( ) Special Non-Community

LABORATORY CERTIFICATION INFORMATION
Lab Certification Number: 83141
Parameter Group(s) Analyzed: Volatile Organic Analysis

Subcontract Lab Certification Number (if any): N/A

SAMPLE INFORMATION
Sample Date (MMDDYY): 07/30/91
Laboratory Sample Number: 91-07-477
Sample Location: _____
Sample Type (check all applicable):
( ) Check ( ) Regular Distribution ( ) Composite
( ) Clearance ( ) Maximum Residue Time ( ) Plant Tap
( ) Raw ( ) Well ( ) Re-sample
( ) Special _____
Sampler Name, Title, Phone: _____

ANALYSIS INFORMATION
Extraction Date (MMDDYY): 08/01/91 (504)
Laboratory Contact: Eric Malarek
Re-sample Requested? (check one): ( ) Yes ( ) No
ANALYSES SUBMITTED: Turbidity____; Inorganic____; Trihalomethane____;
Volatile Organic____; Organic Chemical____; Secondary Chemical____;
Radiological____; Unregulated Organic Purgeable____; Unregulated
Organic Pesticides____; Unregulated Base Neutral Extractable____;
Unregulated Acid Extractable____; (Check all analyses which apply.)

I do HEREBY CERTIFY that all data submitted is correct.

Signature _____

Name Eric Malarek

Title Quality Control Officer

Laboratory Orlando Laboratories, Inc.

Date _____

Mail Results to the Appropriate DER or ACPHU Office:

DER/ACPHU Reviewing Official

_____

Sample Interpretation (check one)
( )Satisfactory ( ) Unsatisfactory

**ORLANDO LABORATORIES, INC.**
P.O. Box 149127 Orlando, FL 32814
(407) 896-6641 FAX (407) 896-5589

# CHAIN-OF-CUSTODY RECORD
(INSTRUCTIONS ON BACK)

Page 4 of 5

| 1 INVOICE TO (COMPANY AND ADDRESS) | 2 CONTACT PERSON/PHONE # INVOICE | 3 OLI WORK ORDER # (LAB USE) |
|---|---|---|
| SSU Services 1000 Color Place Apopka | | 9107477 |
| **4 ORIGINAL REPORT TO (COMPANY AND ADDRESS)** | **5 CONTACT PERSON/PHONE # REPORT** | **6 RB NUMBER (LAB USE)** |
| SSU Services PO Box 458 Pamona Park Fl. 32181 | Paul Thompson 904-649-4143 | |
| **7 (OPTIONAL) ADDITIONAL REPORTS SENT TO (COMPANY AND ADDRESS)** | | |
| | | |

| 8 CLIENT PROJECT NAME | 9 CLIENT PROJECT # |
|---|---|
| | |

| 10 SAMPLE IDENTIFICATION | 11 DATE/TIME | 12 COMP | GRAB | WATER | SOIL | OTHER | 13 SAMPLE DESCRIPTION | 17 NUMBER OF CONTAINERS | 18 REQUESTED ANALYSIS: VOCs | 19 REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| Brooklyn Pt (250403) | 7/30/91 10:30 | | | X | | | Well | 8 | X | |
| Welaka Mill (254124) | 7/30/91 10:00 | | | X | | | Well | 4 | X | |
| Saratoga Harbor (254004) | 7/30/91 9:15 | | | X | | | Well | 4 | X | |
| St. Johns (250404) | 7/30/91 10:30 | | | X | | | Well | 4 | X | |

| TRANSFER NUMBER | 14 RELINQUISHED BY | 15 DATE/TIME | 16 ACCEPTED BY |
|---|---|---|---|
| 1st | Roy White | 7/30/91 8:00 | Ron Bangs |
| 2nd | Ron Bangs | 7/31 11:00 | DeeDee Homan |
| 3rd | | | |

| 20 ADDITIONAL REMARKS | 21 COOLER #'s |
|---|---|
| | |

22 SAMPLER'S SIGNATURE Roy White

ORIGINAL - LAB
YELLOW - FILE
PINK - CLIENT

1051

ORLANDO LABORATORIES INC.

P.O. Box 149127 • Orlando, Florida 32814

REPORT OF ANALYSIS

Southern States Utilities
P.O. Box 458
Pamona Park, FL 32181

Attn: Paul Thompson

Work Order # : 91-10-434
Date Received: 10/30/91
Date Reported: 11/13/91
OLI Contact: J_BEATO

Work ID: SSU Services
Samples collected by: Client
Total Samples: 2

| SAMPLE IDENTIFICATION | TEST CODES and NAMES used on this report |
|---|---|
| 01 Composite #1 | 1COMP Composite Data For Samples |
| 02 Method Blank | PWS028 Volatile Organic Analysis |

Copy of invoice to:

Jerry Boyd
Southern States Utilities
P.O. Box 458
Pamona Park, FL 32181

OLI Florida Department of Health & Rehabilitative Service Identification Numbers are:
Drinking Water Certification Number 83141, Environmental Certification Number E83033

Respectfully Submitted,
ORLANDO LABORATORIES, INC.

John Hobbs
LABORATORY DIRECTOR

Eric Malarek
QUALITY CONTROL

ORGANIC LABORATORIES, INC.
Received: 10/30/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-10 : 4

SAMPLE ID Composite #1
DATE COLLECTED not specified
TEST NAME Composite Data For Samples

SAMPLE# 010
MATRIX WATER
TEST CODE 1C006

NUMBER OF SAMPLES COMPOSITED:

| | Sample Identification | Date and time |
|---|---|---|
| #1 | BEECHERS POINT #1 & #2 | 10/30/91 11:30 |
| #2 | WELAKA MOBILE HOME PARK #3 | 10/30/91 11:40 |
| #3 | SARATOGA HARBOR #4 | 10/30/91 11:45 |
| #4 | ST. JOHNS HIGHLANDS #5 | 10/30/91 10:50 |
| #5 | | |
| #6 | | |
| #7 | | |
| #8 | | |
| #9 | | |
| #10 | | |
| #11 | | |
| #12 | | |

ORLANDO LABORATORIES,INC.
Received: 10/30/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91 10 [illegible]14

SAMPLE ID Composite #1
DATE COLLECTED not specified
TEST NAME Volatile Organic Analysis

SAMPLE# 014
MATRIX WATER
TEST CODE [illegible]

VOLATILE ORGANIC ANALYSIS
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | | | <0.00002 | EPA 504 | 0.00002 | 11/05/91 |
| 2969 | Para-dichlorobenzene | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2976 | Vinyl Chloride | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2977 | 1,1-Dichloroethene | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2980 | 1,2-Dichloroethane | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2981 | 1,1,1-trichloroethane | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2982 | Carbon Tetrachloride | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2984 | Trichloroethene | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2987 | Tetrachloroethene | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2990 | Benzene | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |

Comments:

ORLANDO LABORATORIES,INC.
Received: 10/30/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91 [illegible]

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME Volatile Organic Analysis

SAMPLE# 040
MATRIX METHOD BLANK
TEST CODE PWS028

VOLATILE ORGANIC ANALYSIS
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | | | <0.00002 | EPA 504 | 0.00002 | 11/05/91 |
| 2969 | Para-dichlorobenzene | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2976 | Vinyl Chloride | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2977 | 1,1-Dichloroethene | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2980 | 1,2-Dichloroethane | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2981 | 1,1,1-trichloroethane | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2982 | Carbon Tetrachloride | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2984 | Trichloroethene | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2987 | Tetrachloroethene | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2990 | Benzene | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |

Comments:

ORLANDO LABORATORIES, INC.

GC ORGANICS

# MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 11-11-1991

LAB SAMPLE # : 9110433-01A
ANALYSIS DATE : 11/05/91

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| Ethylene Dibromide | 100 | 0 | 72 | 72 | 69 | 69 | 4 |
| Dibromochloropropane | 100 | 0 | 77 | 77 | 78 | 78 | 1 |

COMMENTS :

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| Ethylene Dibromide | 50 | 110 | 30 | 35 | 100 | 30 |
| Dibromochloropropane | 65 | 110 | 30 | 60 | 110 | 30 |

ORLANDO LABORATORIES INC.

GC/MS VOLATILE ORGANICS

MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 11-05-1991

LAB SAMPLE # : 9110445-3
ANALYSIS DATE : 11/1/91

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| 1,1-dichloroethene | 50 | 0 | 58 | 116 | 53 | 106 | 9 |
| trichloroethene | 50 | 0 | 53 | 106 | 52 | 104 | 2 |
| benzene | 50 | 0 | 59 | 118 * | 55 | 110 | 7 |
| toluene | 50 | 0 | 50 | 100 | 48 | 96 | 4 |
| chlorobenzene | 50 | 0 | 51 | 102 | 50 | 100 | 2 |

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| 1,1-dichloroethene | 64 | 137 | 19 | 50 | 142 | 22 |
| trichloroethene | 76 | 124 | 24 | 70 | 128 | 25 |
| benzene | 77 | 113 | 25 | 64 | 134 | 26 |
| toluene | 65 | 125 | 20 | 69 | 132 | 24 |
| chlorobenzene | 71 | 123 | 24 | 72 | 124 | 20 |

*Note: Parameter outside QC limits due to matrix interference.

## PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 2541242
Public Water System Name: Welaka Mobile Home Park
Public Water System Type (check one):
(X) Community ( ) Non-Community ( ) Special Non-Community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: 83141
Parameter Group(s) Analyzed: Volatile Organic Analysis

Subcontract Lab Certification Number (if any): N/A

**SAMPLE INFORMATION**
Sample Date (MMDDYY): 10/30/91
Laboratory Sample Number: 91-10-434
Sample Location: Well
Sample Type (check all applicable):
( ) Check ( ) Regular Distribution ( ) Composite
( ) Clearance ( ) Maximum Residue Time ( ) Plant Tap
( ) Raw (X) Well ( ) Re-sample
( ) Special
Sampler Name, Title, Phone: Paul D. Thompson
Lead Operator, Putnam County SSU Services
904-649-4143

**ANALYSIS INFORMATION**
Extraction Date (MMDDYY): 10/31/91 (504)
Laboratory Contact: Eric Malarek
Re-sample Requested? (check one): ( ) Yes ( ) No
ANALYSES SUBMITTED: Turbidity____; Inorganic____; Trihalomethane____;
Volatile Organic____; Organic Chemical____; Secondary Chemical____;
Radiological____; Unregulated Organic Purgeable____; Unregulated
Organic Pesticides____; Unregulated Base Neutral Extractable____;
Unregulated Acid Extractable____; (Check all analyses which apply.)

I do HEREBY CERTIFY that all data submitted is correct.

Signature Eric Malarek

Name Eric Malarek

Title Quality Control Officer

Laboratory Orlando Laboratories, Inc.

Date 11/13/91

Mail Results to the Appropriate DER or ACPHU Office:

DER/ACPHU Reviewing Official

Sample Interpretation (check one)
( )Satisfactory ( ) Unsatisfactory

ORLANDO LABORATORIES, INC
P.O. Box 547813 Orlando, FL 32854
407 898-6641 FAX 407 896-E588

# CHAIN-OF-CUSTODY RECORD

(INSTRUCTIONS ON BACK)

Page ... of ...

| | |
|---|---|
| SSU SERVICES P.O. BOX 458 POMONA PARK FL. 32181 | 911434 |
| ORIGINAL REPORT TO (COMPANY AND INDIVIDUAL) ADDRESS (CITY, STATE, ZIP): SAME | PAUL D. THOMPSON |
| (OPTIONAL) ADDITIONAL REPORTS SENT TO: ADDRESS (CITY, STATE, ZIP): | |
| CLIENT PROJECT NAME: | CLIENT PROJECT NO. OR PO #: 114423 |

| | SAMPLE IDENTIFICATION | DATE/TIME | | COMP | GRAB | WATER | SOIL | OTHER | SAMPLE DESCRIPTION | NUMBER OF CONTAINERS | REQUESTED ANALYSIS: VOC | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | BLEACHERS POINT | 11:30 | 10/30/91 | | / | / | | | WELL | 8 | / | |
| 3 | USLACA MOBILE HOME PARK | 11:40 | 10/30/91 | | / | / | | | WELL | 4 | / | |
| 4 | SARATOGA HARBOR | 11:45 | 10/30/91 | | / | / | | | WELL | 4 | / | |
| 5 | ST. JOHNS HIGHLANDS | 10:50 | 10/30/91 | | / | / | | | WELL | 4 | / | |

| TRANSFER NUMBER | RELINQUISHED BY | DATE/TIME | ACCEPTED BY |
|---|---|---|---|
| 1st | Ron Bargeron | 10-30 16:30 | Deedee Homan |
| 2nd | | | |
| 3rd | | | |

ADDITIONAL REMARKS:

COOLER #s:

SAMPLER'S SIGNATURE:

ORIGINAL - LAB
YELLOW - FILE
PINK - CLIENT

1059

ORLANDO LABORATORIES INC

P.O. Box 149127 • Orlando, Florida 32814 • (407) 896-6645

Plant # 447

1060

REPORT OF ANALYSIS

Southern States Utilities
Attn: Aaron Perlowich
1000 Color Place
Apopka, Florida 32703

Report #: 1999 (89-01-133)
Sample submitted by: Client(J. Boyd) *
Date sampled: 01-12-89 @ 1700 hours *
Date received: 01-13-89
Date reported: 01-31-89
Page 1 of 9

PURPOSE: To analyze the sample for listed parameters
AUTHORIZATION: Chain of Custody Form received from client 01-13-89
SAMPLE IDENTIFICATION: Water sample submitted and identified by client as: Welaka - Distribution, Well & Entry Point to Distribution.
PROCEDURE: EPA METHOD 624

RESULTS, ug/l

| PURGEABLE ORGANICS BY GC/MS | DISTRIBUTION | METHOD BLANK |
|---|---|---|
| Benzene | ** | ** |
| Bromodichloromethane | ** | ** |
| Bromoform | ** | ** |
| Bromomethane | ** | ** |
| Carbon Tetrachloride | ** | ** |
| Chlorobenzene | ** | ** |
| Chloroethane | ** | ** |
| 2-Chloroethylvinyl ether | ** | ** |
| Chloroform | ** | ** |
| Chloromethane | ** | ** |
| Dibromochloromethane | ** | ** |
| 1,1-Dichloroethane | ** | ** |
| 1,2-Dichloroethane | ** | ** |
| 1,1-Dichloroethene | ** | ** |
| 1,2-Dichloroethene (Total) | ** | ** |
| 1,2-Dichloropropane | ** | ** |
| cis-1,3-Dichloropropene | ** | ** |
| trans-1,3-Dichloropropene | ** | ** |
| Ethylbenzene | ** | ** |
| Methylene Chloride | ** | ** |

† = Analysis not requested per client
** Samples exceeded holding times and will be reported as a separate report
* Sampling information based on data received by client
ND = Not detected to the levels in parentheses.
< = Less Than

Respectfully submitted,
ORLANDO LABORATORIES, INC.

Jerry to Check with Bob on Results -

Laboratory Manager

Quality Control

OLI Florida Department of Health & Rehabilitative Service Identification Number is 83141.

*The Analytical Specialists*

PROCEDURE: EPA METHOD 624

RESULTS, ug/l

| PURGEABLE ORGANICS BY GC/MS - Cont. | DISTRIBUTION | METHOD BLANK |
|---|---|---|
| 1,1,2,2-Tetrachloroethane | ** | ** |
| Tetrachloroethene | ** | ** |
| Toluene | ** | ** |
| 1,1,1-Trichloroethane | ** | ** |
| 1,1,2-Trichloroethane | ** | ** |
| Trichloroethene | ** | ** |
| Trichlorofluoromethane | ** | ** |
| Vinyl Chloride | ** | ** |
| Dichlorodifluoromethane | ** | ** |
| 1,2-Dichlorobenzene | ** | ** |
| 1,3-Dichlorobenzene | ** | ** |
| 1,4-Dichlorobenzene | ** | ** |
| Acrolein | ** | ** |
| Acrylonitrile | ** | ** |
| n-Hexane | ** | ** |
| 2,2-Dichloropropane | ** | ** |
| 1,1,1,2-Tetrachloroethane | ** | ** |
| 1,2,3-Trichloropropane | ** | ** |
| Styrene | ** | ** |
| meta - Xylene | ** | ** |
| ortho, para - Xylenes | ** | ** |
| Dibromomethane | ** | ** |
| 1,1-Dichloropropene | ** | ** |
| 1,3-Dichloropropane | ** | ** |
| Bromobenzene | ** | ** |
| 1,2-Dibromo-3-chloropropane | ** | ** |

RESULTS, ug/l

PROCEDURE: EPA METHOD 625

| ACID EXTRACTABLE ORGANICS BY GC/MS | DISTRIBUTION | METHOD BLANK |
|---|---|---|
| 4-Chloro-3-methyl phenol | ND(10) | ND(10) |
| 2-Chlorophenol | ND(10) | ND(10) |
| 2,4-Dichlorophenol | ND(10) | ND(10) |
| 2,4-Dimethylphenol | ND(10) | ND(10) |
| 2,4-Dinitrophenol | ND(50) | ND(50) |
| 2-Methyl-4,6-dinitrophenol | ND(50) | ND(50) |
| 2-Nitrophenol | ND(10) | ND(10) |
| 4-Nitrophenol | ND(50) | ND(50) |
| Pentachlorophenol | ND(50) | ND(50) |
| Phenol | ND(10) | ND(10) |
| 2,4,6-Trichlorophenol | ND(10) | ND(10) |

RESULTS, ug/l

PROCEDURE: EPA METHOD 625

| BASE/NEUTRAL EXTRACTABLES BY GC/MS | DISTRIBUTION | METHOD BLANK |
|---|---|---|
| Acenapthene | ND(10) | ND(10) |
| Acenapthylene | ND(10) | ND(10) |
| Anthracene | ND(10) | ND(10) |
| Benzidine | ND(50) | ND(50) |
| Benzo(a)anthracene | ND(10) | ND(10) |
| Benzo(b)fluoranthene | ND(10) | ND(10) |
| Benzo(k)fluoranthene | ND(10) | ND(10) |
| Benzo(a)pyrene | ND(10) | ND(10) |
| Benzo(g,h,i)perylene | ND(10) | ND(10) |
| Benzyl-butyl phthalate | ND(10) | ND(10) |
| bis(2-Chloroethyl)ether | ND(10) | ND(10) |
| bis(2-Chloroethoxy)methane | ND(10) | ND(10) |
| bis(2-Ethylhexyl)phthalate | ND(10) | ND(10) |
| bis(2-Chloroisopropyl)ether | ND(10) | ND(10) |
| 4-Bromophenyl phenyl ether | ND(10) | ND(10) |
| 2-Chloronaphthalene | ND(10) | ND(10) |
| o-Chlorotoluene | ND(10) | ND(10) |
| p-Chlorotoluene | ND(10) | ND(10) |
| 4-Chlorophenyl phenyl ether | ND(10) | ND(10) |
| Chrysene | ND(10) | ND(10) |
| Dibenzo(a,h)anthracene | ND(10) | ND(10) |
| Di-n-butyl-phthalate | ND(10) | ND(10) |
| 1,2-Dichlorobenzene | ND(10) | ND(10) |
| 1,3-Dichlorobenzene | ND(10) | ND(10) |
| 1,4-Dichlorobenzene | ND(10) | ND(10) |
| 3,3-Dichlorobenzidine | ND(20) | ND(20) |
| Diethyl phthalate | ND(10) | ND(10) |
| Dimethyl phthalate | ND(10) | ND(10) |
| 2,4-Dinitrotoluene | ND(10) | ND(10) |
| 2,6-Dinitrotoluene | ND(10) | ND(10) |
| Di-n-octyl-phthalate | ND(10) | ND(10) |
| 1,2-Diphenylhydrazine | ND(10) | ND(10) |
| Fluoranthene | ND(10) | ND(10) |
| Fluorene | ND(10) | ND(10) |
| Hexachlorobenzene | ND(10) | ND(10) |
| Hexachlorobutadiene | ND(10) | ND(10) |
| Hexachlorocyclopentadiene | ND(10) | ND(10) |
| Hexachloroethane | ND(10) | ND(10) |

PROCEDURE: EPA METHOD 625

RESULTS, ug/l

| BASE/NEUTRAL EXTRACTABLES BY GC/MS | DISTRIBUTION | METHOD BLANK |
|---|---|---|
| Ideno(1,2,3-c,d)pyrene | ND(10) | ND(10) |
| Isophorone | ND(10) | ND(10) |
| Naphthalene | ND(10) | ND(10) |
| Nitrobenzene | ND(10) | ND(10) |
| n-Nitrosodimethylamine | ND(10) | ND(10) |
| n-Nitrosodi-n-propylamine | ND(10) | ND(10) |
| n-Nitrosodiphenylamine | ND(10) | ND(10) |
| Phenanthrene | ND(10) | ND(10) |
| Pyrene | ND(10) | ND(10) |
| 2,3,7,8-Tetrachlorodi-benzo-p-dioxin (dioxin) | ND(1000) | ND(1000) |
| 1,2,4-Trichlorobenzene | ND(10) | ND(10) |
| 2-methyl naphthalene | ND(10) | ND(10) |

PROCEDURE: EPA METHOD 608

RESULTS, ug/l

| ORGANOCHLORINE PESTICIDES | DISTRIBUTION | METHOD BLANK |
|---|---|---|
| Alpha-BHC | ND(1) | ND(1) |
| Beta-BHC | ND(1) | ND(1) |
| Delta-BHC | ND(1) | ND(1) |
| Gamma-BHC | ND(1) | ND(1) |
| Heptachlor | ND(1) | ND(1) |
| Aldrin | ND(1) | ND(1) |
| Heptachlor epoxide | ND(1) | ND(1) |
| Endosulfan I | ND(1) | ND(1) |
| Dieldrin | ND(1) | ND(1) |
| 4,4'-DDE | ND(1) | ND(1) |
| O,p-DDE | ND(1) | ND(1) |
| Endosulfan II | ND(1) | ND(1) |
| 4,4'-DDD | ND(1) | ND(1) |
| O,p-DDD | ND(1) | ND(1) |
| Endosulfan sulfate | ND(1) | ND(1) |
| 4,4'-DDT | ND(1) | ND(1) |
| O,p-DDT | ND(1) | ND(1) |
| Endrin aldehyde | ND(1) | ND(1) |
| Alpha-Chlordane | ND(1) | ND(1) |
| Gamma-Chlordane | ND(1) | ND(1) |
| Kelthane | ND(1) | ND(1) |
| Toxaphene | ND(5) | ND(5) |

PROCEDURE: EPA METHOD 608

RESULTS, ug/l

| POLYCHLORINATED BIPHENYLS, PCB's | DISTRIBUTION | METHOD BLANK |
|---|---|---|
| Arochlor 1016 | ND(5) | ND(5) |
| Arochlor 1221 | ND(5) | ND(5) |
| Arochlor 1232 | ND(5) | ND(5) |
| Arochlor 1242 | ND(5) | ND(5) |
| Arochlor 1248 | ND(5) | ND(5) |
| Arochlor 1254 | ND(5) | ND(5) |
| Arochlor 1260 | ND(5) | ND(5) |

PROCEDURE: EPA METHOD 622

RESULTS, ug/l

| ORGANOPHOSPHORUS PESTICIDES | DISTRIBUTION | METHOD BLANK |
|---|---|---|
| Diazinon | ND(1) | ND(1) |
| Ethion | ND(1) | ND(1) |
| Guthion (Azinphos methyl) | ND(1) | ND(1) |
| Malathion | ND(1) | ND(1) |
| Parathion | ND(1) | ND(1) |
| Tedion | ND(1) | ND(1) |
| Trithion (Carbophenothion) | ND(1) | ND(1) |

RESULTS

| MISCELLANEOUS | DISTRIBUTION | METHOD BLANK | PROCEDURE | UNITS |
|---|---|---|---|---|
| Temik®, Aldicarb | ND(10) | ND(10) | EPA 531 | ug/l |
| Gross Alpha (Storet #01501) | 0.5 | † | EPA 900.0 | pCi/l |
| Counting error (Storet #01502) | ± 0.4 | † | EPA 900.0 | pCi/l |

| MISCELLANEOUS | WELL | METHOD BLANK | PROCEDURE | UNITS |
|---|---|---|---|---|
| Ethylene Dibromide, EDB | ND(0.02) | ND(0.02) | EPA 504 | ug/l |

PROCEDURE: In accordance with Federal Register-Vol. 40, No. 248, Part IV-Wednesday, December 24, 1975. U.S. Environmental Protection Agency, National Interim Primary Drinking Water Regulations.

RESULTS, mg/l

| PDWR INORGANIC: | MCL | DISTRIBUTION |
|---|---|---|
| Arsenic, As | 0.05 | <0.010 |
| Barium, Ba | 1.0 | <0.100 |
| Cadmium, Cd | 0.010 | <0.005 |
| Chromium, Cr | 0.05 | <0.010 |
| Lead, Pb | 0.05 | 0.017 |
| Mercury, Hg | 0.002 | <0.0005 |
| Selenium, Se | 0.01 | <0.005 |
| Silver, Ag | 0.05 | <0.010 |
| Nitrate Nitrogen, $NO_3$-N | 10 | <0.03 |
| Fluoride, F | 4.0 | 0.16 |

"ORGANIC ANALYSES BY GAS CHROMATOGRAPHIC SCREENING"

| PDWR ORGANIC: | MCL | DISTRIBUTION |
|---|---|---|
| Endrin | 0.0002 | ND(0.0001) |
| Lindane | 0.004 | ND(0.001) |
| Methoxychlor | 0.1 | ND(0.01) |
| Toxaphene | 0.005 | ND(0.001) |
| 2,4-D | 0.1 | ND(0.01) |
| 2,4,5-TP (Silvex) | 0.01 | ND(0.001) |

RESULTS, mg/l

| MISCELLANEOUS | ENTRY POINT TO DISTRIBUTION | PROCEDURE |
|---|---|---|
| Sodium, Na | 6.50 | EPA 200.7 |
| Total Dissolved Solids | 122 | EPA 160.1 |
| Corrosivity | 0.1 | EPA 110 |
| Phenolphthalein Alkalinity | 0 | EPA 310.1 |
| Total Alkalinity | 83 | EPA 310.1 |
| Carbonate Alkalinity | 0 | EPA 310.1 |
| Bicarbonate Alkalinity | 83 | EPA 310.1 |
| Carbonates | 0 | Calculation |
| Turbidity, NTU | <1 | EPA 180.1 |

PROCEDURE: This water was analyzed according to "Standard Methods for the Examination of Water and Wastewater", 16th Edition, APHA, AWWA, and WPCF (1985).

**RESULTS**

| DETERMINATION | (MCL) | DISTRIBUTION | UNITS |
|---|---|---|---|
| Chloride, Cl | (250) | 7.7 | mg/l |
| Color | (15) | <5 | PCU |
| Foaming Agents, (MBAS) | (0.5) | <0.1 | mg/l |
| Sulfate, $SO_4$ | (250) | 2.6 | mg/l |
| Total Dissolved Solids | (500) | 150 | mg/l |
| pH (Laboratory) | (6.5-8.5) | 8.2 | units |
| Odor Threshold | (3) | 1 | ---- |
| Fluoride, F | (2) | 0.16 | mg/l |
| Copper, Cu | (1.0) | <0.010 | mg/l |
| Iron, Fe | (0.3) | <0.100 | mg/l |
| Manganese, Mn | (0.05) | <0.050 | mg/l |
| Zinc, Zn | (5) | <0.050 | mg/l |
| Phenolphthalein Alkalinity, $CaCO_3$ | | 0 | mg/l |
| Total Alkalinity, $CaCO_3$ | | 85 | mg/l |
| Carbonate Alkalinity, $CaCO_3$ | | 0 | mg/l |
| Bicarbonate Alkalinity, $CaCO_3$ | | 85 | mg/l |
| Carbonates, $CaCO_3$ | | 0 | mg/l |
| Bicarbonates, $HCO_3$ | | 100 | mg/l |
| Hydroxides, as OH | | 0 | mg/l |
| Carbon Dioxide, $CO_2$ | | 1.0 | mg/l |
| pHs | | 8.1 | ---- |
| Stability Index | | 8.0 | ---- |
| Specific Conductance | | 170 | umhos |
| Hydrogen Sulfide, $H_2S$ | | <0.1 | mg/l |
| Nitrate Nitrogen, $NO_3$-N | | <0.03 | mg/l |
| Total Hardness, $CaCO_3$ | | 81.4 | mg/l |
| Magnesium Hardness, $CaCO_3$ | | 16.0 | mg/l |
| Calcium Hardness, $CaCO_3$ | | 65.4 | mg/l |
| Calcium, Ca | | 26.3 | mg/l |
| Magnesium, Mg | | 3.89 | mg/l |

## QUALITY CONTROL DATA SHEET

DUPLICATES:

| PARAMETER | % DIFFERENCE | DATE | ANALYST |
|---|---|---|---|
| 1,2;4-Trichlorobenzene | 8 | 01-18-89 | L.B. |
| Acenaphthene | 6 | 01-18-89 | L.B. |
| 2,4-Dinitrotoluene | 6 | 01-18-89 | L.B. |
| Pyrene | 6 | 01-18-89 | L.B. |
| N-Nitroso-Di-n-Propylamine | 4 | 01-18-89 | L.B. |
| 1,4-Dichlorobenzene | 3 | 01-18-89 | L.B. |
| Pentachlorophenol | 30 | 01-18-89 | L.B. |
| Phenol | 5 | 01-18-89 | L.B. |
| 2-Chlorophenol | 6 | 01-18-89 | L.B. |
| 4-Chloro-3-Methylphenol | 10 | 01-18-89 | L.B. |
| 4-Nitrophenol | 30 | 01-18-89 | L.B. |
| Diazinon | 19 | 01-16-89 | J.H. |
| Malathion | 2 | 01-16-89 | J.H. |
| Lindane | 3 | 01-17-89 | J.H. |
| Endrin | 4 | 01-17-89 | J.H. |
| Methoxychlor | 21 | 01-17-89 | J.H. |
| 2,4-D | 5 | 01-17-89 | J.H. |
| 2,4,5-TP | 9 | 01-17-89 | J.H. |
| EDB | 20 | 01-16-89 | J.H. |
| Aldicarb | 5 | 01-17-89 | J.H. |
| Arsenic | <1 | 01-27-89 | J.H. |
| Barium | <1 | 01-23-89 | A.H. |
| Cadmium | 2 | 01-19-89 | J.C. |
| Chromium | 6 | 01-20-89 | C.G. |
| Lead | <1 | 01-18-89 | J.C. |
| Mercury | <1 | 01-30-89 | J.C. |
| Selenium | 2 | 01-23-89 | C.G. |
| Silver | <1 | 01-18-89 | A.H. |
| Calcium | 2 | 01-23-89 | A.H. |
| Magnesium | 1 | 01-23-89 | A.H. |
| Iron | 1 | 01-23-89 | A.H. |
| Manganese | 3 | 01-23-89 | A.H. |
| Copper | 1 | 01-24-89 | A.H. |
| Zinc | <1 | 01-23-89 | A.H. |
| Sodium | <1 | 01-23-89 | A.H. |
| pH | 1 | 01-14-89 | D.A. |
| Total Alkalinity | 6 | 01-14-89 | D.A. |
| Odor | <1 | 01-14-89 | D.A. |
| MBAS | 2 | 01-14-89 | D.A. |
| Turbidity | 2 | 01-13-89 | P.S. |
| Color | <1 | 01-13-89 | P.S. |
| Hydrogen Sulfide | 4 | 01-15-89 | D.A. |
| Fluoride | 4 | 01-15-89 | D.A. |
| TDS | 4 | 01-17-89 | C.G. |
| Specific Conductance | <1 | 01-18-89 | C.F. |
| Sulfate | 1 | 01-18-89 | C.F. |
| Chloride | <1 | 01-18-89 | C.G. |
| Nitrates | 1 | 01-18-89 | C.G. |
| Gross Alpha | 4.7 | 01-20-89 | J.B. |

## QUALITY CONTROL DATA SHEET

SPIKES:

| PARAMETER | % RECOVERY | DATE | ANALYST |
|---|---|---|---|
| 1,2,4-Trichlorobenzene | 73/79 | 01-18-89 | L.B. |
| Acenaphthene | 83/78 | 01-18-89 | L.B. |
| 2,4-Dinitrotoluene | 87/82 | 01-18-89 | L.B. |
| Pyrene | 79/74 | 01-18-89 | L.B. |
| N-Nitroso-Di-n-Propylamine | 82/79 | 01-18-89 | L.B. |
| 1,4-Dichlorobenzene | 71/69 | 01-18-89 | L.B. |
| Pentachlorophenol | 99/73 | 01-18-89 | L.B. |
| Phenol | 43/45 | 01-18-89 | L.B. |
| 2-Chlorophenol | 69/65 | 01-18-89 | L.B. |
| 4-Chloro-3-Methylphenol | 65/72 | 01-18-89 | L.B. |
| 4-Nitrophenol | 69/51 | 01-18-89 | L.B. |
| Diazinon | 164/183 | 01-16-89 | J.H. |
| Malathion | 86/88 | 01-16-89 | J.H. |
| Lindane | 81/78 | 01-17-89 | J.H. |
| Endrin | 95/91 | 01-17-89 | J.H. |
| Methoxychlor | 92/113 | 01-17-89 | J.H. |
| 2,4-D | 129/134 | 01-17-89 | J.H. |
| 2,4,5-TP | 108/117 | 01-17-89 | J.H. |
| EDB | 91/112 | 01-16-89 | J.H. |
| Aldicarb | 75/70 | 01-17-89 | J.H. |
| Arsenic | 105 | 01-27-89 | J.H. |
| Barium | 100 | 01-23-89 | A.H. |
| Cadmium | 95 | 01-19-89 | J.C. |
| Chromium | 107 | 01-20-89 | C.G. |
| Lead | 101 | 01-18-89 | J.C. |
| Mercury | 94 | 01-30-89 | J.C. |
| Selenium | 96 | 01-23-89 | C.G. |
| Silver | 97 | 01-18-89 | A.H. |
| Calcium | 97 | 01-23-89 | A.H. |
| Magnesium | 96 | 01-23-89 | A.H. |
| Iron | 105 | 01-23-89 | A.H. |
| Manganese | 97 | 01-23-89 | A.H. |
| Copper | 101 | 01-24-89 | A.H. |
| Zinc | 107 | 01-23-89 | A.H. |
| Sodium | 95 | 01-23-89 | A.H. |
| pH | N/A | | |
| Total Alkalinity | 100/95 | 01-14-89 | D.A. |
| Odor | N/A | | |
| MBAS | 106/104 | 01-14-89 | D.A. |
| Turbidity | N/A | | |
| Color | N/A | | |
| Hydrogen Sulfide | 93/96 | 01-15-89 | D.A. |
| Fluoride | 92/96 | 01-15-89 | D.A. |
| TDS | 108/104 | 01-17-89 | C.G. |
| Specific Conductance | 98/98 | 01-18-89 | C.F. |
| Sulfate | 97/98 | 01-18-89 | C.F. |
| Chloride | 97/97 | 01-18-89 | C.G. |
| Nitrates | 95/94 | 01-18-89 | C.G. |
| Gross Alpha | 101/96 | 01-20-89 | J.B. |

State of Florida
Department of Health and Rehabilitative Services
Office of Laboratory Services
P.O. Box 210
Jacksonville, Florida 32231

I.D. NO. 13C03
FOR LAB USE ONLY
DEC 4 1 58 PM '91
BY: D. ADAMS
12/5

# DRINKING WATER
# BACTERIOLOGICAL ANALYSIS

SYSTEM NAME: Wetaka Mobile Home Park SYSTEM I.D. NO: 2541242 SYSTEM PHONE #: 649-4143
ADDRESS: Hamilton Rd. COUNTY: Putnam DER DISTRICT: 2
COLLECTOR: [illegible] COLLECTOR PHONE #: 649-4143
SAMPLE SITE (Locality or Subdivision): Subdivision
DATE AND TIME COLLECTED: 12/4/91 [illegible]
TYPE OF SUPPLY(Circle one): (Community water system) Noncommunity water system Nontransient - noncommunity water system
Private well Swimming pool Bottled water Other public water system
TYPE OF SAMPLE(Circle one): (Compliance) Repeat Replacement Main clearance Well survey Other _____ (Specify)
(Check Box) (Check Box)
[X] Distribution [ ] TNTC or C
[ ] Raw [ ] Turbid
[ ]
REMARKS:

| TO BE COMPLETED BY COLLECTOR OF SAMPLE | | | | TO BE COMPLETED BY LAB | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | ANALYSIS METHOD: | MF | MTF | MMO-MUG | PA |
| COLL. NO. | SAMPLE POINT (Specific Address) | Cl RES*D | pH | SAMPLE NUMBER | NON COLIFORM | *TOTAL | CONFIRM TOTAL | CONFIRM FECAL |
| 1 | Well | | 7.2 | C 1855 | M | A | | |
| 2 | Dist 1 Lot 2 Blk 1 | .2 | | C 1856 | | A | | |
| 3 | Dist 2 Lot 15 Blk 5 | .2 | | C 1857 | | A | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

* Results in this column are preliminary. Fecal coliform confirmation on community and noncommunity water systems and total coliform confirmation on all types of water systems will follow in 24-48 hours.

P - Coliforms are present C - Confluent growth TA - Turbid, Absence of gas or acid
A - Coliforms are absent TNTC - Too numerous to count

INTERPRETATIONS-REMARKS BY PROGRAM REVIEWER

DEC 12 1991

(Blanca R. Rodriguez, Engineer
( ) SATISFACTORY Drinking Water Regulation
( ) INCOMPLETE COLLECTION INFORMATION
( ) REPEAT SAMPLES
( ) REPLACEMENT SAMPLES

NAME AND MAILING ADDRESS OF PERSON/FIRM TO RECEIVE REPORT

SSU SERVICES
Putnam County Office
P. O. Box 458
Pomona Park, FL 32181

REVIEWING OFFICIAL: _____

TITLE: _____

HRS Form 668, Jan 91 (Obsolete previous editions which may not be used) (Stock Number: 5710-000-0681-8)

# Western Shores - 566

**Lake County (SSU)**

**Water**

## - 1992 FPSC Filing -

# Western Shores

## Chemical Analyses

The most recent chemical analyses for the water system conducted by a certified laboratory covering the inorganic, organic, turbidity, microbiological, radionuclide, secondary and unregulated contaminants.

| Chemical Analysis | Date Taken |
|---|---|
| Inorganic | 3/91 |
| Organic | 3/91 |
| Volatile Organic Chemicals | 3/91 |
| | 6/91 |
| | 9/91 |
| | 12/91 |
| Turbidity | 3/91 |
| Microbiological | 12/91 |
| Radionuclide | 3/91 |
| Secondary Contaminants | 3/91 |
| Unregulated Contaminants | 3/91 |

SSU
SERVICES

**General Offices**
1000 Color Place
Apopka, FL 32703
(407) 880-0058

April 30, 1991

Ms. Marie Carrasquillo
State of Florida
Department of Environmental Regulations
3319 Maguire Boulevard
Suite 232
Orlando, Florida 32803-3767

Re: **Western Shores PWS ID #3351464**
**Lake Brantley PWS ID #3590685**
**Venetian Village PWS ID #3351426**

Dear Ms. Carrasquillo,

Enclosed please find results for Primary Organics, Primary Inorganics, Secondarys, Turbidity and Radiological Analysis for the above referenced facilities.

Please enter this information into your records.

Sincerely,

SSU Services

Donald B. Corder

Donald B. Corder
Area Supervisor

DBC/jlm
cc: Charles Sweat
Frank Sanderson
Ralph Terrero
Clara Dozier
File

Fla

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Apr18 1991
PO Number: B91051
PO Number
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WATER SAMPLE
Date Received: Mar26 1991 Lab Number : 16542

Wastewater Storm Sewer Inlet below Sludge removal

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16542 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 95.4 | 5.11 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 115 | 8.65 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 108 | .790 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 108 | .790 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 112 | 8.27 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 101 | .406 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 102 | 1.06 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 112 | .654 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 119 | 5.18 | <0.001 |
| Benzene | mg/L | 0.001 | 93.8 | .469 | <0.001 |
| Chloromethane | mg/L | 0.001 | 113 | .805 | <0.001 |
| Dichlorodifluorometh | mg/L | 0.001 | 102 | 1.06 | <0.001 |
| Bromomethane | mg/L | 0.001 | 113 | .805 | <0.001 |
| Chloroethane | mg/L | 0.001 | 108 | .790 | <0.001 |
| Trichlorofluorometha | mg/L | 0.001 | 102 | 1.06 | <0.001 |
| trans-1,3,-dichlorop | mg/L | 0.001 | 110 | .789 | <0.001 |
| cis-1,3-dichloroprop | mg/L | 0.001 | 114 | 6.25 | <0.001 |
| Methyl-tert-butyleth | mg/L | 0.001 | 105 | 4.91 | <0.001 |
| cis-1,2-dichloroethe | mg/L | 0.001 | 114 | 6.25 | <0.001 |
| Dibromomethane | mg/L | 0.001 | 113 | .805 | <0.001 |
| 1,1-dichloropropene | mg/L | 0.001 | 103 | 0.78 | <0.001 |
| 1,3-dichloropropane | mg/L | 0.001 | 110 | .789 | <0.001 |
| 1,2,3-trichloropropa | mg/L | 0.001 | 108 | 8.11 | <0.001 |
| 2,2-dichloropropane | mg/L | 0.001 | 108 | .790 | <0.001 |
| 1,2-dibromo-3-chloro | mg/L | 0.001 | 108 | 8.11 | <0.001 |
| Chloroform | mg/L | 0.001 | 87.2 | .055 | <0.001 |

Data Release Authorization

Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



Jefferson L. Flowers, Ph.D
Jefferson S. Flowers, Ph.D
481 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984
FAX (407) 260-6110

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Apr18 1991
PO Number: B91051

PO Number
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WATER SAMPLE
Date Received: Mar26 1991 Lab Number : 16542

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16542 |
|---|---|---|---|---|---|
| Bromoform | mg/L | 0.001 | 118 | 7.84 | <0.001 |
| Bromodichloromethane | mg/L | 0.001 | 102 | 3.28 | <0.001 |
| Dibromochloromethane | mg/L | 0.001 | 116 | 3.14 | <0.001 |
| p-xylene | mg/L | 0.001 | 109 | 7.34 | <0.001 |
| Methylene chloride | mg/L | 0.001 | 113 | .805 | <0.001 |
| o-chlorotoluene | mg/L | 0.001 | 107 | 3.22 | <0.001 |
| p-chlorotoluene | mg/L | 0.001 | 94.7 | 2.11 | <0.001 |
| m-dichlorobenzene | mg/L | 0.001 | 116 | 8.44 | <0.001 |
| o-dichlorobenzene | mg/L | 0.001 | 114 | 5.62 | <0.001 |
| 1,1-dichloroethane | mg/L | 0.001 | 101 | .393 | <0.001 |
| trans-1,2-dichloroet | mg/L | 0.001 | 102 | 3.72 | <0.001 |
| 1,2-dichloropropane | mg/L | 0.001 | 103 | .462 | <0.001 |
| 1,1,2-trichloroethan | mg/L | 0.001 | 120 | 4.60 | <0.001 |
| 1,1,1,2-tetrachloroe | mg/L | 0.001 | 112 | 3.76 | <0.001 |
| 1,1,2,2-tetrachloroe | mg/L | 0.001 | 118 | 8.78 | <0.001 |
| Chlorobenzene | mg/L | 0.001 | 109 | .539 | <0.001 |
| Toluene | mg/L | 0.001 | 94.7 | 2.11 | <0.001 |
| Ethylbenzene | mg/L | 0.001 | 99.5 | 3.11 | <0.001 |
| Bromobenzene | mg/L | 0.001 | 109 | .539 | <0.001 |
| m-xylene | mg/L | 0.001 | 109 | 7.34 | <0.001 |
| Styrene | mg/L | 0.001 | 94.7 | 2.11 | <0.001 |
| o-xylene | mg/L | 0.001 | 109 | 7.34 | <0.001 |
| Dalapon | mg/L | 0.000001 | 99.8 | 5.32 | <0.000001 |
| Oxamyl (Vydate) | mg/L | 0.002 | 93.8 | 5.66 | <0.002 |
| Simazine | mg/L | 0.007 | 102 | 1.73 | <0.007 |
| Picloram | mg/L | 0.00007 | 97.0 | 11.7 | <0.00007 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director

Jefferson L. Flowers, Ph.D
Jefferson S. Flowers, Ph.D
481 NEWBURYPORT
P O BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984
FAX (407) 260-6[illegible]

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Apr18 1991
PO Number: B91051

PO Number
FDHRS Lab# : 83139
FDER Lab# : EB3018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WATER SAMPLE
Date Received: Mar26 1991 Lab Number : 16542

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16542 |
|---|---|---|---|---|---|
| Dinoseb | mg/L | 0.00001 | 107 | 1.32 | <0.00001 |
| Aldicarb sulfoxide | mg/L | 0.002 | 95.8 | 5.54 | <0.002 |
| Aldicarb sulfone | mg/L | 0.002 | 95.0 | 8.19 | <0.002 |
| Metolachlor | mg/L | 0.0005 | 98.5 | 3.59 | <0.0005 |
| Carbofuran | mg/L | 0.001 | 97.0 | .000 | <0.001 |
| Aldicarb | mg/L | 0.002 | 110 | 5.81 | <0.002 |
| Atrazine | mg/L | 0.002 | 101 | 1.74 | <0.002 |
| Alachlor (Lasso) | mg/L | 0.0002 | 101 | 7.04 | <0.0002 |
| Heptachlor | mg/L | 0.000005 | 102 | .834 | <0.000005 |
| Aldrin | mg/L | 0.00007 | 110 | .642 | <0.00007 |
| Dieldrin | mg/L | 0.00001 | 97.1 | 8.88 | <0.00001 |
| Dicamba | mg/L | 0.00001 | 91.8 | 8.86 | <0.00001 |
| Chlordane | mg/L | 0.00001 | 101 | 2.39 | <0.00001 |
| Pentachlorophenol | mg/L | 0.005 | 102 | .415 | <0.005 |
| Hexachlorocyclopenta | mg/L | 0.001 | 95.8 | 3.32 | <0.001 |
| Dioxin | mg/L | 0.00001 | 97.9 | 3.61 | <0.00001 |
| Isophorone | mg/L | 0.001 | 96.2 | 3.47 | <0.001 |
| 2,4-dinitrotoluene | mg/L | 0.001 | 99.9 | 6.20 | <0.001 |
| Dimethylphthalate | mg/L | 0.001 | 98.7 | 3.64 | <0.001 |
| Diethylphthalate | mg/L | 0.001 | 102 | 4.04 | <0.001 |
| Di-n-butylphthalate | mg/L | 0.001 | 99.7 | 6.13 | <0.001 |
| Butyl benzyl phthala | mg/L | 0.001 | 96.5 | 6.71 | <0.001 |
| Bis(2-ethylhexyl)pht | mg/L | 0.001 | 98.3 | 3.89 | <0.001 |
| 1,2,4-trichlorobenze | mg/L | 0.001 | 99.6 | 2.04 | <0.001 |
| PCB_1016 | mg/L | 0.0001 | 96.7 | 1.32 | <0.0001 |
| PCB_1221 | mg/L | 0.0001 | 96.3 | 1.91 | <0.0001 |

Data Release Authorization

Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P O BOX 150597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984
FAX (407) 260-6110

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Apr18 1991
PO Number: B91051

PO Number
FDHRS Lab# : 83139
FDER Lab# : EB3018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WATER SAMPLE
Date Received: Mar26 1991 Lab Number : 16542

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16542 |
|---|---|---|---|---|---|
| PCB_1232 | mg/L | 0.0001 | 104 | .408 | <0.0001 |
| PCB_1242 | mg/L | 0.0001 | 105 | 2.02 | <0.0001 |
| PCB_1248 | mg/L | 0.0001 | 99.4 | 3.41 | <0.0001 |
| PCB_1254 | mg/L | 0.0001 | 96.7 | 1.90 | <0.0001 |
| PCB_1260 | mg/L | 0.0001 | 103 | 3.15 | <0.0001 |
| Dioctylphthalate | mg/L | 0.001 | 98.1 | 5.58 | <0.001 |
| 2-chlorophenol | mg/L | 0.001 | 95.7 | 1.45 | <0.001 |
| 2-methyl-4,6-dinitop | mg/L | 0.001 | 98.2 | 2.42 | <0.001 |
| Phenol | mg/L | 0.001 | 98.6 | 3.79 | <0.001 |
| 2,4,6-trichloropheno | mg/L | 0.001 | 99 | 1.21 | <0.001 |

Data Release Authorization

Sample integrity and reliability certified by Lab personnel prior to analysis. Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984
FAX (407) 260-6110

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number:_____
Public Water System Name Western Shores
Public Water System Type (check one):
(✓)Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyz: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___: Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable_X_; Unregulated Organic Pesticide_X_;
Unregulated Base Neutral Extractable_X_;Unregulated Acid Extractable__X_;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number 16542
Sample Location (be specific): _____
Sample Type (check all applicable):
( )Check ( )Regular Distribution (✓)Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
(✓)Raw (✓)Well ( )Resample
( )Special_____
Sampler Name, Title Phone:_____
_____

**ANALYSIS INFORMATION**
Extraction Date 3/30/91
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTEL Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___: Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature:_____

Name **Dr. Jefferson S Flowers**

Title **Technical Director**

Laboratory **Flowers Chemical Laboratories,Inc.**

Date 4/15/91

Mail Results to the
Appropriate DER or ACPHU Office:
_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 06/01/ () Satisfactory () Unsatisfactory

Volatile Organic Analysis
17-550.310(2)(d)
(PWS029)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 16542 | .00002 | <.000005 | EPA504.1 | .000005 | 4/12/91 |
| 2969 | Para-dichlorobenzene | 16542 | .075 | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2976 | Vinyl chloride | 16542 | 0.001 | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2977 | 1,1-dichloroethene | 16542 | 0.007 | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2980 | 1,2-dichloroethane | 16542 | 0.003 | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2981 | 1,1,1-trichloroethane | 16542 | 0.2 | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2982 | Carbon tetrachloride | 16542 | 0.003 | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2984 | Trichloroethene | 16542 | 0.003 | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2987 | Tetrachloroethene | 16542 | 0.003 | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2990 | Benzene | 16542 | 0.001 | <0.001 | EPA502.2 | 0.001 | 3/30/91 |

Comments:

Unregulated Organic Purgeable Analysis
17-550.410(1)
(PWS034)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2210 | Chloromethane | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2212 | Dichlorodifluoromethan | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2214 | Bromomethane | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2216 | Chloroethane | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2218 | Trichlorofluoromethane | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2224 | trans-1,3,-dichloroprop | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2228 | cis-1,3-dichloropropene | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2251 | Methyl-tert-butylether | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2380 | cis-1,2-dichloroethene | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2408 | Dibromomethane | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2410 | 1,1-dichloropropene | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2412 | 1,3-dichloropropane | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2414 | 1,2,3-trichloropropane | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2416 | 2,2-dichloropropane | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2931 | 1,2-dibromo-3-chloropr | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2941 | Chloroform | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2942 | Bromoform | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2943 | Bromodichloromethane | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2944 | Dibromochloromethane | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2962 | p-xylene | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2964 | Methylene chloride | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2965 | o-chlorotoluene | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2966 | p-chlorotoluene | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2967 | m-dichlorobenzene | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2968 | o-dichlorobenzene | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2978 | 1,1-dichloroethane | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2979 | trans-1,2-dichloroethyl | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2983 | 1,2-dichloropropane | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2985 | 1,1,2-trichloroethane | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2986 | 1,1,1,2-tetrachloroetha | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2988 | 1,1,2,2-tetrachloroetha | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2989 | Chlorobenzene | 16542 | | <0.001 | EPA502.2 | 0.001 | 3/30/91 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 2991 | Toluene | 16542 | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2992 | Ethylbenzene | 16542 | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2993 | Bromobenzene | 16542 | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2995 | m-xylene | 16542 | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2996 | Styrene | 16542 | <0.001 | EPA502.2 | 0.001 | 3/30/91 |
| 2997 | o-xylene | 16542 | <0.001 | EPA502.2 | 0.001 | 3/30/91 |

Comments:

Unregulated Organic Pesticide Analysis
17-550.410(2)
(PWS035)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2031 | Dalapon | 16542 | | <.000001 | EPA515 | .000001 | 4/15/91 |
| 2036 | Oxamyl (Vydate) | 16542 | | <0.002 | EPA531 | 0.002 | 3/28/91 |
| 2037 | Simazine | 16542 | | <0.007 | EPA505 | 0.007 | 4/15/91 |
| 2040 | Picloram | 16542 | | <0.00007 | EPA515 | 0.00007 | 4/15/91 |
| 2041 | Dinoseb | 16542 | | <0.00001 | EPA515 | 0.00001 | 4/15/91 |
| 2043 | Aldicarb sulfoxide | 16542 | | <0.002 | EPA531 | 0.002 | 3/28/91 |
| 2044 | Aldicarb sulfone | 16542 | | <0.002 | EPA531 | 0.002 | 3/28/91 |
| 2045 | Metolachlor | 16542 | | <0.0005 | EPA505 | 0.0005 | 4/15/91 |
| 2046 | Carbofuran | 16542 | | <0.001 | EPA531 | 0.001 | 3/28/91 |
| 2047 | Aldicarb | 16542 | | <0.002 | EPA531 | 0.002 | 3/28/91 |
| 2050 | Atrazine | 16542 | | <0.002 | EPA505 | 0.002 | 4/15/91 |
| 2051 | Alachlor (Lasso) | 16542 | | <0.0002 | EPA505 | 0.0002 | 4/15/91 |
| 2065 | Heptachlor | 16542 | | <.000005 | EPA508 | .000005 | 4/5/91 |
| 2356 | Aldrin | 16542 | | <0.00007 | EPA508 | 0.00007 | 4/5/91 |
| 2364 | Dieldrin | 16542 | | <0.00001 | EPA508 | 0.00001 | 4/5/91 |
| 2440 | Dicamba | 16542 | | <0.00001 | EPA515 | 0.00001 | 4/15/91 |
| 2959 | Chlordane | 16542 | | <0.00001 | EPA508 | 0.00001 | 4/5/91 |
| 9114 | Pentachlorophenol | 16542 | | <0.005 | EPA515 | 0.005 | 4/15/91 |

Comments:

Unregulated Base Neutral Extractable Analysis
17-550.410(3)
(PWS036)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2042 | Hexachlorocyclopentadie | 16542 | | <0.001 | EPA508 | 0.001 | 4/15/91 |
| 2063 | Dioxin | 16542 | | <0.00001 | EPA613 | 0.00001 | 4/5/91 |
| 2262 | Isophorone | 16542 | | <0.001 | EPA609 | 0.001 | 4/10/91 |
| 2270 | 2,4-dinitrotoluene | 16542 | | <0.001 | EPA609 | 0.001 | 4/10/91 |
| 2282 | Dimethylphthalate | 16542 | | <0.001 | EPA606 | 0.001 | 4/10/91 |
| 2284 | Diethylphthalate | 16542 | | <0.001 | EPA606 | 0.001 | 4/10/91 |
| 2290 | Di-n-butylphthalate | 16542 | | <0.001 | EPA606 | 0.001 | 4/10/91 |
| 2294 | Butyl benzyl phthalate | 16542 | | <0.001 | EPA606 | 0.001 | 4/10/91 |
| 2298 | Bis(2-ethylhexyl)phthal | 16542 | | <0.001 | EPA606 | 0.001 | 4/10/91 |
| 2378 | 1,2,4-trichlorobenzene | 16542 | | <0.001 | EPA612 | 0.001 | 4/10/91 |
| 2388 | PCB_1016 | 16542 | | <0.0001 | EPA505 | 0.0001 | 4/5/91 |
| 2390 | PCB_1221 | 16542 | | <0.0001 | EPA505 | 0.0001 | 4/5/91 |
| 2392 | PCB_1232 | 16542 | | <0.0001 | EPA505 | 0.0001 | 4/5/91 |
| 2394 | PCB_1242 | 16542 | | <0.0001 | EPA505 | 0.0001 | 4/5/91 |
| 2396 | PCB_1248 | 16542 | | <0.0001 | EPA505 | 0.0001 | 4/5/91 |
| 2398 | PCB_1254 | 16542 | | <0.0001 | EPA505 | 0.0001 | 4/5/91 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 2400 | PCB 1260 | 16542 | | <0.0001 | EPA505 | 0.0001 | 4/5/91 |
| 9089 | Dioctylphthalate | 16542 | | <0.001 | EPA606 | 0.001 | 4/10/91 |

Comments:

Unregulated Acid Extractable Analysis
17-550.410(4)
(PWS037)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 9108 | 2-chlorophenol | 16542 | | <0.001 | EPA604 | 0.001 | 4/10/91 |
| 9112 | 2-methyl-4,6-dinitophe | 16542 | | <0.001 | EPA604 | 0.001 | 4/10/91 |
| 9115 | Phenol | 16542 | | <0.001 | EPA604 | 0.001 | 4/10/91 |
| 9116 | 2,4,6-trichlorophenol | 16542 | | <0.001 | EPA604 | 0.001 | 4/10/91 |

Comments:

FLOWERS CHEMICAL LABORATORIES INCORPORATED

ANALYTICAL & CONSULTING CHEMISTS
**CHAIN OF CUSTODY RECORD**

| CLIENT SSU | ADDRESS | PHONE |
|---|---|---|
| PROJECT NAME: B91053 | REQUIRED: ☐ Urgent ☐ Routine | DATE |

| Sample Containers QTY | Preservative: HNO3 | H2SO4 | HCl | Na2S2O3 | Zn(C2H3O2)/NaOH | NaOH/AscAcid | | Plastic Containers: 60mL | 125mL | 250mL | 500mL | 1L | 2L | Whirl-Pak Bag | | Glass Containers: 40mL Vial | 250mL | 500mL | 1L | 2L | 4L | | NOTES: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | | | | | | X | | 5 Wells 15 Samples |
| 10 | | | | | | | | | | | | | | | | X | | | | | | | No AIR Bubbles |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |

| Kit Relinquished: | Date: Time: | Kit Received: | Date: Time: |
|---|---|---|---|

#675.00

Parameters: PVOA UNRG

| Laboratory Number | Client Identification/Description |
|---|---|
| 16542 | Western Shores Well 1 (with new well) |
| | Well 2 |
| | Silver Lakes Well 1 |
| | Well 2 |
| | Weyerhaeuser Well 1 |

| | | Date | Time |
|---|---|---|---|
| Sample Collector | Dennis Marc | 3-26-91 | |
| Transportation | Jane Shaffer | | |
| Lab Acceptance | | 3/26/91 | 4:25 |

Page _____ of _____

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.

481 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984
FAX (407) [illegible]

Western Shores

| | |
|---|---|
| Temp | 73° |
| Cond | 320 |
| pH | 7.5 |
| DO | 5.5 |
| Cl2 | 1.2 |

Silver Lake

| | |
|---|---|
| Temp | 73° |
| Cond | 504 |
| pH | 7.0 |
| DO | 7.1 |
| Cl2 | 1.5 |

Wedgewood

| | |
|---|---|
| Temp | 50° |
| Cond | 727 |
| pH | 7.0 |
| DO | 7.0 |
| Cl2 | 1.2 |

SSU
SERVICES

**General Offices**
1000 Color Place
Apopka, FL 32703
(407) 880-0058

April 30, 1991

Ms. Marie Carrasquillo
State of Florida
Department of Environmental Regulations
3319 Maguire Boulevard
Suite 232
Orlando, Florida 32803-3767

Re: Wedgewood PWS ID #3354701
Silver Lakes PWS ID #3351182
Western Shores PWS ID #3351464

Dear Ms. Carrasquillo,

Enclosed please find results for Volatile Organic Analysis, Unregulated Organic Purgeables, Unregulated Organic Pesticides, Unregulated Base Neutral Extracts and Unregulated Acid Extractables for the above referenced facilities.

Please enter this information into your records.

Sincerely,

SSU Services
Donald B. Corder

Donald B. Corder
Area Supervisor

DBC/jlm
cc: Charles Sweat
Frank Sanderson
Ralph Terrero
Clara Dozier
File

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Apr19 1991
PO Number: 891051
PO Number W. Shores
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WATER SAMPLE
Date Received: Mar26 1991 Lab Number : 16541

REPORT OF ANALYSIS

Westamy Shores

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16541 |
|---|---|---|---|---|---|
| Turbidity | NTU | 0.05 | 100 | .000 | 0.33 |
| Arsenic | mg/L | 0.0005 | 107 | 2.11 | 0.000544 |
| Barium | mg/L | 0.01 | 105 | 2.11 | 0.33 |
| Cadmium | mg/L | 0.001 | 99.9 | .263 | 0.003 |
| Chromium | mg/L | 0.005 | 107 | .364 | <0.005 |
| Fluoride | mg/L | 0.05 | 104 | 1.56 | 0.0762 |
| Lead | mg/L | 0.001 | 104 | 5.91 | 0.0461 |
| Mercury | mg/L | 0.0002 | 102 | 4.05 | <0.0002 |
| Nitrate(as N) | mg/L | 0.01 | 91.5 | 2.45 | 0.075 |
| Selenium | mg/L | 0.0005 | 94.6 | 3.65 | <0.0005 |
| Silver | mg/L | 0.005 | 102 | .788 | <0.005 |
| Sodium | mg/L | 0.002 | 103 | .516 | 0.082 |
| Endrin | mg/L | 0.000001 | 101 | .837 | <0.000001 |
| Lindane | mg/L | 0.000001 | 95.7 | 6.65 | <0.000001 |
| Methoxychlor | mg/L | 0.00001 | 107 | 3.32 | <0.00001 |
| Toxaphene | mg/L | 0.0001 | 104 | 1.77 | <0.0001 |
| 2,4-D | mg/L | 0.00005 | 109 | 1.30 | <0.00005 |
| 2,4,5-TP(Silvex) | mg/L | 0.00002 | 103 | 4.81 | <0.00002 |
| Calcium | mg/L | 0.1 | 106 | .362 | 33.5 |
| Chloride | mg/L | 0.015 | 101 | 2.47 | 6.17 |
| Carbonate_CaCO3 | mg/L | 0.1 | | | <0.1 |
| Hydroxide_CaCO3 | mg/L | 0.1 | | | <0.1 |
| Copper | mg/L | 0.005 | 105 | .413 | 0.005 |
| Bicarbonate _CaCO3 | mg/L | 0.1 | | | <0.1 |
| Carbonate_Alkalinity | mg/L | 0.1 | | | <0.1 |
| Hydrogen_Sulfide | mg/L | 0.5 | | | - |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director

Jefferson L. Flowers, Ph.D
Jefferson S. Flowers, Ph.D
481 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984
FAX (407) 260-6110

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Apr19 1991
PO Number: B91051
PO Number W. Shores
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WATER SAMPLE
Date Received: Mar26 1991 Lab Number : 16541

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16541 |
|---|---|---|---|---|---|
| Iron | mg/L | 0.01 | 101 | .433 | 0.165 |
| Magnesium | mg/L | 0.01 | 108 | .722 | 7.05 |
| Manganese | mg/L | 0.005 | 102 | .630 | 0.057 |
| Sulfate | mg/L | 0.2 | 91.9 | 2.1 | 3 |
| Zinc | mg/L | 0.001 | 102 | 1.05 | 0.004 |
| Carbon_Dioxide | mg/L | 0.1 | | | <0.1 |
| Color | mg/L | 5 | - | .000 | 10 |
| Total_Hardness | mg/L | 0.1 | | | <0.1 |
| NCH_as_CaCO3 | mg/L | 0.1 | | | <0.1 |
| Odor(TON) | TON | 1 | - | - | <1 |
| Field_pH | pH | 0.01 | | | - |
| Lab_pH | pH | 0.01 | 100 | 1.00 | 7.67 |
| Field Conductivity | umhos/c | 0.01 | | | - |
| Total Alkalinity | mg/L | 0.1 | 99.4 | .667 | 88.3 |
| TDS | mg/L | 2.5 | 95.3 | 3.77 | 129 |
| Phenolphthalein Alk. | mg/L | 0.1 | | | - |
| Field Temp. (C) | oC | 1 | | | <1 |
| Langelier Index | LX | 0.01 | | | <0.01 |
| Saturation Index | pHs | 0.01 | | | <0.01 |
| Stability Index | pH | 0.01 | | | <0.01 |
| Foaming Agents | mg/L | 0.1 | 99.7 | 1.02 | <0.1 |
| Field DO | mg/L | 0.1 | | | - |
| Field Chlorine | mg/L | 0.1 | | | - |
| Gross alpha incl. Ra | pCi/L | 1 | | | 1.3 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
661 NEWBURYPORT
P.O. BOX 950597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984
FAX (407) 260-6140

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 3351464
Public Water System Name Western Shores
Public Water System Type (check one):
(X)Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyz Turbidity_X_;Inorganic_X_; Trihalomethane ___;
Volatile Organic___; Organic Chemical_X_; Secondary Chemical_X_; Radiological_X_;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable___;
Subcontracted Lab Certification Numbe For Radiological Parameters: HRS82138

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number 16541
Sample Location (be specific): _____
Sample Type (check all applicable):
( )Check (X)Regular Distribution ( )Composit
( )Clearance ( )Maximum Residence Time (X)Plant Tap
( )Raw ( )Well ( )Resample
( )Special_____
Sampler Name, Title Phone:_____
_____

**ANALYSIS INFORMATION**
Extraction Date 4/17/91
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTED Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable___;

I do HEREBY CERTIFY that all data submitted are correct.

Signature: _____

Name **Dr. Jefferson S Flowers**

Title **Technical Director**

Laboratory **Flowers Chemical Laboratories,Inc.**

Date 4/18/91

Mail Results to the Appropriate DER or ACPHU Office:
_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 06/01/8 () Satisfactory () Unsatisfactory

## Turbidity Analysis
17-550.310(3)
(PWS026)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(NTU | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 0100 | Turbidity | 16541 | 1 | .330 | EPA180.1 | 0.05 | 4/2/91 |

Comments:

## Inorganic Analysis
17-550.310(1)
(PWS030)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1005 | Arsenic | 16541 | 0.05 | .000544 | EPA206.3 | 0.0005 | 4/5/91 |
| 1010 | Barium | 16541 | 1 | .330 | EPA208.1 | 0.01 | 4/5/91 |
| 1015 | Cadmium | 16541 | 0.01 | .00300 | EPA213.1 | 0.001 | 4/4/91 |
| 1020 | Chromium | 16541 | 0.05 | <0.005 | EPA218.1 | 0.005 | 4/4/91 |
| 1025 | Fluoride | 16541 | 4 | .0762 | EPA340.1 | 0.05 | 3/28/91 |
| 1030 | Lead | 16541 | 0.05 | .0461 | EPA239.2 | 0.001 | 4/4/91 |
| 1035 | Mercury | 16541 | 0.002 | <0.0002 | EPA245.1 | 0.0002 | 4/2/91 |
| 1040 | Nitrate(as N) | 16541 | 10 | .0750 | EPA353.1 | 0.01 | 04-03-91 |
| 1045 | Selenium | 16541 | 0.01 | <0.0005 | EPA270.3 | 0.0005 | 4/5/91 |
| 1050 | Silver | 16541 | 0.05 | <0.005 | EPA272.1 | 0.005 | 4/1/91 |
| 1052 | Sodium | 16541 | 160 | .0820 | EPA273.1 | 0.002 | 3/28/91 |

Comments:

## Organic Chemical Analysis
17-550.310(2)(a)(b)
(PWS029)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2005 | Endrin | 16541 | 0.0002 | <.000001 | EPA508 | .000001 | 4/17/91 |
| 2010 | Lindane | 16541 | 0.004 | <.000001 | EPA508 | .000001 | 4/17/91 |
| 2015 | Methoxychlor | 16541 | 0.1 | <0.00001 | EPA508 | 0.00001 | 4/17/91 |
| 2020 | Toxaphene | 16541 | 0.005 | <0.0001 | EPA508 | 0.0001 | 4/17/91 |
| 2105 | 2,4-D | 16541 | 0.1 | <0.00005 | EPA515 | 0.00005 | 4/17/91 |
| 2110 | 2,4,5-TP(Silvex) | 16541 | 0.01 | <0.00002 | EPA515 | 0.00002 | 4/17/91 |

Comments:

## Secondary Chemical Analysis
17-550.320
(PWS031)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1016 | Calcium | 16541 | | 33.5 | EPA215.1 | 0.1 | 4/4/91 |
| 1017 | Chloride | 16541 | 250 | 6.17 | EPA300.0 | 0.015 | 04-01-91 |
| 1019 | Carbonate CaCO3 | 16541 | | <0.1 | SM314A | 0.1 | 4/4/91 |
| 1021 | Hydroxide CaCO3 | 16541 | | <0.1 | SM406C | 0.1 | 4/4/91 |
| 1022 | Copper | 16541 | 1 | .00500 | EPA220.1 | 0.005 | 4/3/91 |
| 1023 | Bicarbonate CaCO3 | 16541 | | <0.1 | SM406C | 0.1 | 4/4/91 |
| 1026 | Carbonate Alkalinity | 16541 | | <0.1 | SM406C | 0.1 | 4/4/91 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1027 | Hydrogen Sulfide | 16541 | | | EPA376.1 | 0.5 | |
| 1028 | Iron | 16541 | 0.3 | .165 | EPA236.1 | 0.01 | 4/2/91 |
| 1031 | Magnesium | 16541 | | 7.05 | EPA242.1 | 0.01 | 4/4/91 |
| 1032 | Manganese | 16541 | 0.05 | .0570 | EPA243.1 | 0.005 | 3/29/91 |
| 1055 | Sulfate | 16541 | 250 | 3.0 | EPA300.0 | 0.200 | 4/8/91 |
| 1095 | Zinc | 16541 | 5 | .00400 | EPA289.1 | 0.001 | 4/3/91 |
| 1901 | Carbon Dioxide | 16541 | | <0.1 | SM406C | 0.1 | 4/4/91 |
| 1905 | Color | 16541 | 15 | 10.0 | EPA110.1 | 5 | 4/1/91 |
| 1915 | Total Hardness | 16541 | | <0.1 | SM314A | 0.1 | 4/4/91 |
| 1917 | NCH as CaCO3 | 16541 | | <0.1 | SM314A | 0.1 | 4/4/91 |
| 1920 | Odor(TON) | 16541 | 3 | <1 | EPA140.1 | 1 | 4/1/91 |
| 1924 | Field pH | 16541 | 6.5-8.5 | 7.5 | EPA150.1 | 0.01 | |
| 1925 | Lab pH | 16541 | 6.5-8.5 | 7.67 | EPA150.1 | 0.01 | 4/1/91 |
| 1926 | Field Conductivity | 16541 | | 320 | - | 0.01 | |
| 1927 | Total Alkalinity | 16541 | | 88.3 | EPA310.1 | 0.1 | 3/29/91 |
| 1930 | TDS | 16541 | 500 | 129 | EPA160.1 | 2.5 | 4/1/91 |
| 1931 | Phenolphthalein Alk. | 16541 | | | EPA310.1 | 0.1 | |
| 1996 | Field Temp. (C) | 16541 | | <1 23 | - | 1 | 4/4/91 |
| 1997 | Langelier Index | 16541 | -0.2:+0.2 | <0.01 | SM203 | 0.01 | 4/4/91 |
| 1998 | Saturation Index | 16541 | | <0.01 | SM203 | 0.01 | 4/4/91 |
| 1999 | Stability Index | 16541 | | <0.01 | SM203 | 0.01 | 4/4/91 |
| 2909 | Foaming Agents | 16541 | 0.5 | <0.1 | EPA425.1 | 0.1 | 4/1/91 |
| 9996 | Field DO | 16541 | | 5.5 | - | 0.1 | |
| 9997 | Field Chlorine | 16541 | | 1.2 | - | 0.1 | |

Comments:

Radiological Analysis
17-550.310(5)
(PWS033)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(pCi/l | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 4000 | Gross alpha incl. Ra & U | 16541 | 5 | 1.3 | EPA900 | 1 | 4/18/91 |

Comments:

FLOWERS CHEMICAL LABORATORIES INCORPORATED

ANALYTICAL & CONSULTING CHEMISTS

# CHAIN OF CUSTODY RECORD

| CLIENT SSU | ADDRESS | PHONE |
|---|---|---|
| PROJECT NAME: B91051 | REQUIRED: ☐ Urgent ☐ Routine | DATE |

| Sample Containers QTY | Preservative: HNO3 | H2SO4 | HCl | Na2S2O3 | Zn(C2H3O2)/NaOH | NaOH/AscAcid | Plastic Containers: 60mL | 125mL | 250mL | 500mL | 1L | 2L | Whirl-Pak Bag | Glass Containers: 40mL Vial | 250mL | 500mL | 1L | 2L | 4L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | X | | | | | | | | | X | | | | | | | | | |
| 1 | | | | | | | | | | | X | | | | | | | | |
| 1 | | | | | | | | | | | | | | | | | | X | |
| 1 | X | | | | | | | | | X | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |

NOTES: 1 Plant 1 Sample

| Kit Relinquished: | Date: Time: | Kit Received: | Date: Time: |
|---|---|---|---|
| | | | |

#3670

Parameters: Fecal Coli Sec. CA

| Laboratory Number | Client Identification/Description |
|---|---|
| 16541 | Dist Water |

| | | Date | Time |
|---|---|---|---|
| Sample Collection | Dennis Moore | 3-26-91 | |
| Transportation | Daniel Shaffer | 3-26-91 | |
| Lab Acceptance | | 3/26/91 | 4:35 |

Page _____ of _____

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.

4811 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984
FAX (407) 260-6110

DAILY BUSINESS FORMS - (407) 877-7222 ACTS 2 51

SSU SERVICES

**General Offices**
1000 Color Place
Apopka, FL 32703
(407) 880-0058

July 15, 1991

Ms. Marie Carrasquillo
State of Florida
Department of Environmental Regulation
3319 Maguire Boulevard
Suite 232
Orlando, Florida 32803-3767

Re: Lake County - PW
Skycrest PWS ID #3351205
Western Shores PWS ID #3351464
Silver Lakes PWS ID #3351182

Dear Ms. Carrasquillo,

Enclosed please find results for Volatile Organic Analysis second quarter for the above referenced facilities.

Please enter this information into your records.

Sincerely,

SSU Services

Donald B. Corder
Division Supervisor

DBC/jlm

cc: Charles Sweat
Clara Dozier
File

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
Southern States
1000 Color Pl.
Apopka,FL 32703

Date Reported: Jul 2 1991
PO Number: 891051
PO Number SSU
FDHRS Lab# : 83139
FDER Lab# : EB3018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WATER SAMPLE
Date Received: Jun26 1991 Lab Number : 17230

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 17230 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 99.0 | 2.74 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 96.4 | 1.07 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 96.7 | .218 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 96.7 | .218 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 95.5 | .595 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 91.6 | 3.11 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 93.5 | 3.44 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 92.2 | .300 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 101 | .721 | <0.001 |
| Benzene | mg/L | 0.001 | 96.4 | 1.08 | <0.001 |

Data Release Authorization

Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



Jefferson S. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
381 NEWBURYPORT
P.O. BOX 150597
ALTAMONTE SPRINGS
FLORIDA 32715-0597

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 3351464
Public Water System Name Western Shores
Public Water System Type (check one):
(X)Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyzed: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable___;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number 17230
Sample Location (be specific): # 1 & 2 Wells
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
(X)Raw (X)Well ( )Resample
( )Special_____
Sampler Name, Title Phone: Dennis Moro

**ANALYSIS INFORMATION**
Extraction Date __/__/____
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTED: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable___;

I do HEREBY CERTIFY that all data submitted are correct.

Signature:

Name **Dr Jefferson S Flowers**

Title **Technical Director**

Laboratory **Flowers Chemical Laboratories,Inc.**

Date 7/1/91

Mail Results to the Appropriate DER or ACPHU Office:

DER /ACPHU Reviewing Offical:

PWSA.01 Sample Interpretation (check one):
Effective 06/01/8 () Satisfactory () Unsatisfactory

Volatile Organic Analysis
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 17230 | .00002 | <.000005 | EPA504.1 | .000005 | 6/27/91 |
| 2969 | Para-dichlorobenzene | 17230 | .075 | <0.001 | EPA502.2 | 0.001 | 6/29/91 |
| 2976 | Vinyl chloride | 17230 | 0.001 | <0.001 | EPA502.2 | 0.001 | 6/29/91 |
| 2977 | 1,1-dichloroethene | 17230 | 0.007 | <0.001 | EPA502.2 | 0.001 | 6/29/91 |
| 2980 | 1,2-dichloroethane | 17230 | 0.003 | <0.001 | EPA502.2 | 0.001 | 6/29/91 |
| 2981 | 1,1,1-trichloroethane | 17230 | 0.2 | <0.001 | EPA502.2 | 0.001 | 6/29/91 |
| 2982 | Carbon tetrachloride | 17230 | 0.003 | <0.001 | EPA502.2 | 0.001 | 6/29/91 |
| 2984 | Trichloroethene | 17230 | 0.003 | <0.001 | EPA502.2 | 0.001 | 6/29/91 |
| 2987 | Tetrachloroethene | 17230 | 0.003 | <0.001 | EPA502.2 | 0.001 | 6/29/91 |
| 2990 | Benzene | 17230 | 0.001 | <0.001 | EPA502.2 | 0.001 | 6/29/91 |

Comments:

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

ANALYTICAL & CONSULTING CHEMISTS

## CHAIN OF CUSTODY RECORD

ATTN: DON CORDER

| CLIENT | ADDRESS | PHONE |
|---|---|---|
| SOUTHERN STATES UTIL. | 1000 COLOZ PLACE APOPKA, FL. 32703 | 880-0058 |

PROJECT NAME: W. SHORES / SILVER LK / SEACREST — PO: 391051 — 42 WELL — REQUIRED: ☐ Urgent ☐ Routine — DATE

| Sample Containers | Preservative | | | | | | | Plastic Containers | | | | | | | Glass Containers | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| QTY | 1 HNO3 | H2SO4 | HCl | Na2S2O3 | Zn(C2H3O2)/NaOH | NaOH/AscAcid | | 60mL | 125mL | 250mL | 500mL | 1L | 2L | Whirl-Pak Bag | 40mL Vial | 250mL | 500mL | 1L | 2L | 4L | |
| 15 | | | | | | | | | | | | | | | X | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |

NOTES: 5 WELLS PLEASE COMPOSITE 2ND QTR. VOA's. — BDS. 02 PER LAURIE

| Kit Relinquished: | Date: Time: | Kit Received: | Date: Time: |
|---|---|---|---|
| | | | |

Parameters: VOA's (DRINKING WATER)

| Laboratory Number | Client Identification/Description |
|---|---|
| 17230 | |

| | | Date | Time |
|---|---|---|---|
| Sample Collection | Dean Snoots | 6-26-91 | |
| Transportation | Dean Snoots | | |
| Lab Acceptance | | 6/26/91 | 3:20 |

Page ____ of ____

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.

SSU
SERVICES

**General Offices**
1000 Color Place
Apopka, FL 32703
(407) 880-0058

October 7, 1991

Ms. Marie Carrasquillo
State of Florida
Department of Environmental Regulation
3319 Maguire Boulevard
Suite 232
Orlando, Florida 32803-3767

Re: Lake County PW
Western Shores PWS ID #3351464
Silver Lakes PWS ID E3351182
Skycrest PWS ID #3351205

Dear Ms. Carrasquillo,

Enclosed please find results for Volatile Organic Analysis third quarter for the above referenced facilities.

Please enter this informaiton into your records.

Sincerely,

SSU Services

Donald B. Corder

Don Corder
Area Supervisor

DC/jlm

cc: Charles Sweat
Frank Sanderson
Mel Fisher
Clara Dozier
Osceola County
File

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Oct 2 1991
PO Number: B91051
PO Number SSU
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: COMP. SAMPLE
Date Received: Sep27 1991 Lab Number : 17868

REPORT OF ANALYSIS

Wacton Stone

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 17868 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 99.9 | .820 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 89.8 | 4.86 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 106 | .487 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 106 | .487 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 96.9 | .420 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 101 | .204 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 104 | 1.38 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 97.5 | .508 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 98.0 | 1.24 | <0.001 |
| Benzene | mg/L | 0.001 | 97.4 | .710 | <0.001 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director

Page 1 of 1

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P.O. BOX 160-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984
FAX (407) 260-6110

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number:_____
Public Water System Name _____
Public Water System Type (check one):
(✓)Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyzed: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number 17868
Sample Location (be specific): Plant Side
Sample Type (check all applicable):
( )Check ( )Regular Distribution (✓)Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
(✓)Raw (✓)Well ( )Resample
( )Special_____
Sampler Name, Title Phone: Brian Heath - Lead Operator 880-0057

**ANALYSIS INFORMATION**
Extraction Date 9/30/91
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTED: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature:_____

Name **Dr Jefferson S Flowers**

Title **Technical Director**

Laboratory **Flowers Chemical Laboratories,Inc.**

Date 10/1/91

Mail Results to the
Appropriate DER or ACPHU Office:
_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 06/01/( () Satisfactory () Unsatisfactory

Volatile Organic Analysis
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 17868 | .00002 | <.000005 | EPA504.1 | .000005 | 9/30/91 |
| 2969 | Para-dichlorobenzene | 17868 | .075 | <0.001 | EPA502.2 | 0.001 | 9/30/91 |
| 2976 | Vinyl chloride | 17868 | 0.001 | <0.001 | EPA502.2 | 0.001 | 9/30/91 |
| 2977 | 1,1-dichloroethene | 17868 | 0.007 | <0.001 | EPA502.2 | 0.001 | 9/30/91 |
| 2980 | 1,2-dichloroethane | 17868 | 0.003 | <0.001 | EPA502.2 | 0.001 | 9/30/91 |
| 2981 | 1,1,1-trichloroethane | 17868 | 0.2 | <0.001 | EPA502.2 | 0.001 | 9/30/91 |
| 2982 | Carbon tetrachloride | 17868 | 0.003 | <0.001 | EPA502.2 | 0.001 | 9/30/91 |
| 2984 | Trichloroethene | 17868 | 0.003 | <0.001 | EPA502.2 | 0.001 | 9/30/91 |
| 2987 | Tetrachloroethene | 17868 | 0.003 | <0.001 | EPA502.2 | 0.001 | 9/30/91 |
| 2990 | Benzene | 17868 | 0.001 | <0.001 | EPA502.2 | 0.001 | 9/30/91 |

Comments:

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

FDER Lab# E82018
FDHRS Lab# 83130
NCCEHNR Lab# 284
SCDHEC Lab# 96018

ANALYTICAL & CONSULTING CHEMISTS
CHAIN OF CUSTODY RECORD
DRINKING WATER 17-550

ATTN: Dan Cotrea

| (1)Client | (2)Address | (3)Phone |
|---|---|---|
| SSU | 1000 Color Place Apopka, FL. 32703 | 880-0058 |

(4)Public Drinking Water ID # | (5)Public Water System Name:

(6)Project # | (8)Public Water System Type

(7)PO# B-91051 | (X) Community ( ) Non-Community ( ) Special Non-Community

| | | Preservative | | | Plastic Containers | | | | | | Glass Containers | | | | | | NOTES: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | HNO3 | ZnOAC/NaOH | | 60ml | 125ml | 250ml | 500ml | 1L | Whirl Pac Bag | 40ml | 250ml | 500ml | 1L | 2L | 3L | |
| (16) | 15 | | | | | | | | | | X | | | | | | 5 wells total, to be composited at lab to 1-sample. #46 Western Shores - 2 wells #54 Silver Lakes - 2 wells #55 Sky Crest - 1 well #2 |

(12)Turn Around Time:
10 Working Days:
5 Working Days :
3 Working Days :
1 Working Day :
Other :

| (17)Kit Relinquished: | (17)Date / (17)Time | (9)Kit Received | (9)Date / (9)Time |
|---|---|---|---|
| | | | |

(10)Parameter Group(s) Analysed: Turbidity__; Inorganic__; Trihalomethane__; Volitile Organic X; Organic Chemical__; Secondary Chemical__; Radiological__; Unregulated Organic Purgeable__; Unregulated Organic Pesticide : Unregulated Base Neutral Extractable : Unregulated Acid Extractable

| (18)Laboratory Number | (11)Client Sample Identification |
|---|---|
| 17868 | #1 |
| | #2 |
| | #3 |
| | #4 |
| | #5 |
| | #6 |
| | #7 |
| | #8 |
| | #9 |
| | #10 |

| | | Date | Time |
|---|---|---|---|
| (13)Collectors Signature: | Brian Heath | 4/26/91 | |
| (14)Transporters Signature: | H. D. Rowland | 7/27/91 | |
| (15)Lab Acceptance By: | Susan Heath | 9/27/91 | 10:01 |

Over for numbered instructions.

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Dec30 1991
PO Number: B 9105
PO Number W.Shores#566
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WELL#1
Date Received: Dec23 1991 Lab Number : 18573

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 18573 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 113 | 4.07 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 103 | 1.18 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 107 | 5.05 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 107 | 5.05 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 111 | 5.99 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 112 | 6.36 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 111 | 8.10 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 112 | 6.46 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 107 | 1.19 | <0.001 |
| Benzene | mg/L | 0.001 | 100 | .866 | <0.001 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Andrew Harrison
Laboratory Manager



Jefferson L. Flowers, Ph.D.
Jefferson E. Flowers, Ph.D.
481 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-8984
FAX (407) 260-6110

## PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 3351464
Public Water System Name: Western Shores
Public Water System Type (check one):
(X)Community ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyzed: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable___;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number: 18573
Sample Location (be specific): Plant #1 well
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composite
( )Clearance ( )Maximum Residence Time ( )Plant Tap
(X)Raw (X)Well ( )Resample
( )Special_____
Sampler Name, Title Phone: John Hawersaat - Maint. 880-0058

**ANALYSIS INFORMATION**
Extraction ___/___/____
Laboratory Dr. J.S. Flowers
Resample Requested? (check one): ()Yes (X) No
ANALYSIS SUBMITTED: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable___;

I do HEREBY CERTIFY that all data submitted are correct.

Signature:_____

Name **Andrew B. Harrison**

Title **Laboratory Manager**

Laboratory **Flowers Chemical Laboratories,Inc.**

Date 12/30/91

DER /ACPHU Reviewing Offical:

_____

Mail Results to the Appropriate DER or ACPHU Office:

_____
_____
_____
_____

PWSA.01 Sample Interpretation (check one):
Effective 0 () Satisfactory () Unsatisfactory

Volatile Organic Analysis
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 18573 | .00002 | <.000005 | EPA504.1 | .000005 | 12/27/91 |
| 2969 | Para-dichlorobenzene | 18573 | .075 | <0.001 | EPA502.2 | 0.001 | 12/23/91 |
| 2976 | Vinyl chloride | 18573 | 0.001 | <0.001 | EPA502.2 | 0.001 | 12/23/91 |
| 2977 | 1,1-dichloroethene | 18573 | 0.007 | <0.001 | EPA502.2 | 0.001 | 12/23/91 |
| 2980 | 1,2-dichloroethane | 18573 | 0.003 | <0.001 | EPA502.2 | 0.001 | 12/23/91 |
| 2981 | 1,1,1-trichloroethane | 18573 | 0.2 | <0.001 | EPA502.2 | 0.001 | 12/23/91 |
| 2982 | Carbon tetrachloride | 18573 | 0.003 | <0.001 | EPA502.2 | 0.001 | 12/23/91 |
| 2984 | Trichloroethene | 18573 | 0.003 | <0.001 | EPA502.2 | 0.001 | 12/23/91 |
| 2987 | Tetrachloroethene | 18573 | 0.003 | <0.001 | EPA502.2 | 0.001 | 12/23/91 |
| 2990 | Benzene | 18573 | 0.001 | <0.001 | EPA502.2 | 0.001 | 12/23/91 |

Comments:

FLOWERS CHEMICAL LABORATORIES INCORPORATED

ANALYTICAL & CONSULTING CHEMISTS

# CHAIN OF CUSTODY RECORD

| CLIENT | ADDRESS | PHONE |
|---|---|---|
| SSU Services | 1000 color place Apopka | 800-458-7202 |

| PROJECT NAME: | REQUIRED: | DATE |
|---|---|---|
| Western Shores #566 | ☐ Urgent ☐ Routine | 12-23-91 |

| Sample Containers QTY | Preservative: HNO3 | H2SO4 | HCl | Na2S2O3 | Zn(C2H3O2)/NaOH | NaOH/AscAcid | | Plastic Containers: 60mL | 125mL | 250mL | 500mL | 1L | 2L | Whirl-Pak Bag | | Glass Containers: 40mL Vial | 250mL | 500mL | 1L | 2L | 4L | | NOTES: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |

| Kit Relinquished: | Date: Time: | Kit Received: | Date: Time: |
|---|---|---|---|
| | | | |

Parameters: VOC's

| Laboratory Number | Client Identification/Description |
|---|---|
| 18573 | Well #1 |
| 18574 | Well #2 |

| | | Date | Time |
|---|---|---|---|
| Sample Collection | John D. Flowers | 12-23-91 | 9:30 |
| Transportation | John D. Flowers | 12-23-91 | 3:30 |
| Lab Acceptance | M. McCoy | 12-23-91 | 3:30 pm. |

Page 1 of 1

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.

481 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984
FAX (407) 260-0110

DAILY BUSINESS FORMS (407) 339-5222 ACTS 2:38

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Dec30 1991
PO Number: B 7/05/
PO Number W.Shores#566
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WELL#2
Date Received: Dec23 1991 Lab Number : 18574

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 18574 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 113 | 4.07 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 103 | 1.18 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 107 | 5.05 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 107 | 5.05 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 111 | 5.99 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 112 | 6.36 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 111 | 8.10 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 112 | 6.46 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 107 | 1.19 | <0.001 |
| Benzene | mg/L | 0.001 | 100 | .866 | <0.001 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Andrew Harrison
Laboratory Manager

Page 2 of 2

481 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984
FAX (407) 260-6110

## PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 3351464
Public Water System Name: Western Shores
Public Water System Type (check one):
(*)Community ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyzed: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number: 18574
Sample Location (be specific): Plant #2 Well
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composite
( )Clearance ( )Maximum Residence Time ( )Plant Tap
(*)Raw (*)Well ( )Resample
( )Special
Sampler Name, Title Phone: John Hawersaat - Mgr. 880-0058

**ANALYSIS INFORMATION**
Extraction ___/___/____
Laboratory Dr. J.S. Flowers
Resample Requested? (check one): ()Yes (X) No
ANALYSIS SUBMITTED: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature: _____

Name **Andrew B. Harrison**

Title **Laboratory Manager**

Laboratory **Flowers Chemical Laboratories,Inc.**

Date 12/30/91

Mail Results to the Appropriate DER or ACPHU Office:

_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 0 () Satisfactory () Unsatisfactory

Volatile Organic Analysis
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 18574 | .00002 | <.000005 | EPA504.1 | .000005 | 12/27/91 |
| 2969 | Para-dichlorobenzene | 18574 | .075 | <0.001 | EPA502.2 | 0.001 | 12/23/91 |
| 2976 | Vinyl chloride | 18574 | 0.001 | <0.001 | EPA502.2 | 0.001 | 12/23/91 |
| 2977 | 1,1-dichloroethene | 18574 | 0.007 | <0.001 | EPA502.2 | 0.001 | 12/23/91 |
| 2980 | 1,2-dichloroethane | 18574 | 0.003 | <0.001 | EPA502.2 | 0.001 | 12/23/91 |
| 2981 | 1,1,1-trichloroethane | 18574 | 0.2 | <0.001 | EPA502.2 | 0.001 | 12/23/91 |
| 2982 | Carbon tetrachloride | 18574 | 0.003 | <0.001 | EPA502.2 | 0.001 | 12/23/91 |
| 2984 | Trichloroethene | 18574 | 0.003 | <0.001 | EPA502.2 | 0.001 | 12/23/91 |
| 2987 | Tetrachloroethene | 18574 | 0.003 | <0.001 | EPA502.2 | 0.001 | 12/23/91 |
| 2990 | Benzene | 18574 | 0.001 | <0.001 | EPA502.2 | 0.001 | 12/23/91 |

Comments:

FLOWERS CHEMICAL LABORATORIES INCORPORATED

ANALYTICAL & CONSULTING CHEMISTS

# CHAIN OF CUSTODY RECORD

| CLIENT | ADDRESS | PHONE |
|---|---|---|
| SSU Services | 1000 color place Apopka | 800-458-7202 |

| PROJECT NAME | REQUIRED: | DATE |
|---|---|---|
| Western Shores #566 | ☐ Urgent ☐ Routine | 12-23-91 |

| Sample Containers QTY | Preservative | | | | | | | Plastic Containers | | | | | | | | Glass Containers | | | | | | | NOTES: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | HNO3 | H2SO4 | HCl | Na2S2O3 | Zn(C2H3O2)/NaOH | NaOH/AscAcid | | 60mL | 125mL | 250mL | 500mL | 1L | 2L | Whirl-Pak Bag | | 40mL Vial | 250mL | 500mL | 1L | 2L | 4L | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |

| Kit Relinquished: | Date: Time: | Kit Received: | Date: Time: |
|---|---|---|---|
| | | | |

Parameters: VOC's

| Laboratory Number | Client Identification/Description |
|---|---|
| 18573 | Well #1 |
| 18574 | Well #2 |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

| | | Date | Time |
|---|---|---|---|
| Sample Collection: | J. D. Hammond | 12-23-91 | 9:30 |
| Transportation: | J. D. Hammond | 12-23-91 | 3:30 |
| Lab Acceptance: | M. McCoy | 12.23.91 | 3:30pm. |

Page 1 of 1

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.

481 NEWBURYPORT
P O BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984
FAX (407) 260-6110

DAILY BUSINESS FORMS - (407) 277-7233 ACTS 2:36

HRS

State of Florida
Department of Health and Rehabilitative Services
Office of Laboratory Services
P.O. Box 210
Jacksonville, Florida 32231

T.D. No. 13003
FOR LAB USE ONLY
Dec 12 1 18 PM '91
By: D. MACANIS
12/13

# DRINKING WATER
# BACTERIOLOGICAL ANALYSIS

SYSTEM NAME: Western Shores #566 SYSTEM I.D. NO: 3351464 SYSTEM PHONE #: 904-787-4504
ADDRESS: Carl/Hodge Rd. COUNTY: Lake DER DISTRICT: Central
COLLECTOR: Dennis W. Moro COLLECTOR PHONE #: 904-326-4420
SAMPLE SITE (Locality or Subdivision): Leesburg
DATE AND TIME COLLECTED: 12/12/91 11:15am
TYPE OF SUPPLY(Circle one): (Community water system) Noncommunity water system Nontransient - noncommunity water system
Private Well Swimming pool Bottled water Other public water system
TYPE OF SAMPLE(Circle one): (Compliance) Repeat Replacement Main clearance Well survey Other _____ (Specify)
(Check Box) (Check Box)
[ ] Distribution [ ] TNTC or [ ]
[ ] Raw [ ] Turbid
REMARKS:

| TO BE COMPLETED BY COLLECTOR OF SAMPLE | | | | TO BE COMPLETED BY LAB | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | ANALYSIS METHOD: MF MTF | | | MMO-MUG | PA |
| COLL. NO. | SAMPLE POINT (Specific Address) | Cl RES'D | pH | SAMPLE NUMBER | MON. COLIFORM | *TOTAL | CONFIRM TOTAL | CONFIRM FECAL |
| W-1 | Well #1 | 0. | | 053808 | | A | | |
| W-2 | Well #2 | 0. | | 053809 | | A | | |
| T | Tank | 1.2 | 7.5 | 053810 | | A | | |
| R-1 | 34305 Lakeland | .9 | | 053811 | | A | | |
| R-2 | 11303 Layton | .9 | | 053812 | | A | | |
| | | | | | | | | |
| | | | | | | | | |

* Results in this column are preliminary. Fecal coliform confirmation on community and noncommunity water systems and total coliform confirmation on all types of water systems will follow in 24-48 hours.

P - Coliforms are present C - Confluent growth TA - Turbid, Absence of gas or acid
A - Coliforms are absent TNTC - Too numerous to count

INTERPRETATIONS-REMARKS BY PROGRAM REVIEWER

NAME AND MAILING ADDRESS OF PERSON/FIRM TO RECEIVE REPORT

SSU Service
1000 Color Place
Apopka, Florida 32703

( )
(X) SATISFACTORY
( ) INCOMPLETE COLLECTION INFORMATION
( ) REPEAT SAMPLES
( ) REPLACEMENT SAMPLES

REVIEWING OFFICIAL: _____
TITLE: DEP

HRS Form 868, Jan 91 (Obsoletes previous editions which may not be used) (Stock Number: 0760-000-0081-4)

# Westmont - 122

**Orange County (SSU)**

**Water**

**- 1992 FPSC Filing -**

# Westmont

## Chemical Analyses

**The most recent chemical analyses for the water system conducted by a certified laboratory covering the inorganic, organic, turbidity, microbiological, radionuclide, secondary and unregulated contaminants.**

| Chemical Analysis | Date Taken |
|---|---|
| Inorganic | * |
| Organic | * |
| Volatile Organic Chemicals | * |
| | * |
| | * |
| | * |
| Turbidity | * |
| Microbiological | 12/91 |
| Radionuclide | * |
| Secondary Contaminants | * |
| Unregulated Contaminants | * |

* Water is purchased from Orange County Public Utilities for the Westmont area.

HRS

State of Florida
Department of Health and Rehabilitative Services
Office of Laboratory Services
P.O. Box 210
Jacksonville, Florida 32231

FOR LAB USE ONLY

DEC 18 11 37 AM '91

12/17

# DRINKING WATER BACTERIOLOGICAL ANALYSIS

SYSTEM NAME: Westmont SYSTEM I.D. NO: 3481465 SYSTEM PHONE #: 880-0056

ADDRESS: c/o 1000 Colon pl. Apopka COUNTY: ORANGE DER DISTRICT: 03

COLLECTOR: Rebecca Eck COLLECTOR PHONE #: Same

SAMPLE SITE (Locality or Subdivision): Westmont

DATE AND TIME COLLECTED: 12/16/91 10^00 Am

TYPE OF SUPPLY(Circle one): (Community water system) Noncommunity water system Nontransient - noncommunity water system
Private well Swimming pool Bottled water Other public water system

TYPE OF SAMPLE(Circle one): (Compliance) Repeat Replacement Main clearance Well survey Other _____ (Specify)
(Check Box)
[ ] Distribution
[ ] Raw
(Check Box)
[ ] TNTC or C
[ ] Turbid
[ ]

REMARKS:

| TO BE COMPLETED BY COLLECTOR OF SAMPLE | | | | TO BE COMPLETED BY LAB | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | ANALYSIS METHOD: | MF | MTF | MMO-MUG | PA |
| COLL. NO. | SAMPLE POINT (Specific Address) | Cl RES'D | pH | SAMPLE NUMBER | NON COLIFORM | *TOTAL | CONFIRM TOTAL | CONFIRM FECAL |
| 1 | 6623 Westmont Dr | 0.5 | 7.2 | C | | A | | |
| 2 | 310 Enka | 0.5 | 7.2 | C | | A | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

* Results in this column are preliminary. Fecal coliform confirmation on community and noncommunity water systems and total coliform confirmation on all types of water systems will follow in 24-48 hours.

P - Coliforms are present C - Confluent growth TA - Turbid, Absence of gas or acid
A - Coliforms are absent TNTC - Too numerous to count

INTERPRETATIONS-REMARKS BY PROGRAM REVIEWER

HRS Form 665, Jan 91 (Obsoletes previous editions which may not be used) (State Number 8740 000 1665 5)

NAME AND MAILING ADDRESS OF PERSON/FIRM TO RECEIVE REPORT

S.S.U. Services, Inc.
1000 Colon pl.
Apopka, FL. 32703

( )
(X) SATISFACTORY
( ) INCOMPLETE COLLECTION INFORMATION
( ) REPEAT SAMPLES
( ) REPLACEMENT SAMPLES

REVIEWING OFFICIAL: JR

TITLE: BER

# Windsong - 783

**Osceola County (SSU)**

**Water**

## - 1992 FPSC Filing -

# Windsong

## Chemical Analyses

The most recent chemical analyses for the water system conducted by a certified laboratory covering the inorganic, organic, turbidity, microbiological, radionuclide, secondary and unregulated contaminants.

| Chemical Analysis | Date Taken |
|---|---|
| Inorganic | 3/91 |
| Organic | 3/91 |
| Volatile Organic Chemicals | 3/91 |
| | 6/91 |
| | 9/91 |
| | 12/91 |
| Turbidity | 3/91 |
| Microbiological | 12/91 |
| Radionuclide | 2/88 |
| Secondary Contaminants | 3/91 |
| Unregulated Contaminants | 3/91 |

SSU SERVICES

**General Offices**
1000 Color Place
Apopka, FL 32703
(407) 880-0058

April 23, 1991

Ms. Marie Carrasquillo
State of Florida
Department of Environmental Regulation
3319 Maguire Boulevard
Suite 232
Orlando, Florida 32807-3767

Re: Drinking Water Compliance Analysis
for Windsong Water System
ID #3494291

Dear Ms. Carrasquillo,

Please find enclosed for your records, Primary Organics, Inorganics, Secondary Contaminants, and Turbidity analysis for the Windsong distribution system.

Your cooperation and assistance as always, is greatly appreciated.

Sincerely,

SSU Services

Sam Sparks
Division Supervisor

SS/jlm

cc: Charles Sweat
Mel Fisher
Clara Dozier
Ralph Terrero
File

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Apr 9 1991
PO Number: 22372
PO Number Windsong
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WATER SAMPLE
Date Received: Mar27 1991 Lab Number : 16556

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16556 |
|---|---|---|---|---|---|
| Turbidity | NTU | 0.05 | 100 | .000 | 0.42 |
| Arsenic | mg/L | 0.0005 | 107 | 2.11 | <0.0005 |
| Barium | mg/L | 0.01 | 105 | 2.11 | 0.2 |
| Cadmium | mg/L | 0.001 | 99.9 | .263 | 0.307 |
| Chromium | mg/L | 0.005 | 107 | .364 | 0.006 |
| Fluoride | mg/L | 0.05 | 104 | 1.56 | 0.0857 |
| Lead | mg/L | 0.001 | 94.9 | 10.3 | 0.0054 |
| Mercury | mg/L | 0.0002 | 102 | 4.05 | <0.0002 |
| Nitrate+as N | mg/L | 0.01 | 142 | 2.47 | 0.0284 |
| Selenium | mg/L | 0.0005 | 94.6 | 3.65 | <0.0005 |
| Silver | mg/L | 0.005 | 102 | .789 | <0.005 |
| Sodium | mg/L | 0.002 | 105 | 1.01 | 0.153 |
| Endrin | mg/L | 0.000001 | 96.6 | 3.41 | <0.000001 |
| Lindane | mg/L | 0.000001 | 98.4 | 2.59 | <0.000001 |
| Methoxychlor | mg/L | 0.00001 | 104 | 6.15 | <0.00001 |
| Toxaphene | mg/L | 0.0001 | 106 | .935 | 0.0001 |
| 2,4-D | mg/L | 0.00005 | 113 | 6.59 | <0.00005 |
| 2,4,5-TP(Silvex) | mg/L | 0.00002 | 111 | 2.87 | <0.00002 |
| Calcium | mg/L | 0.1 | 106 | .362 | 45 |
| Chloride | mg/L | 0.015 | 101 | 2.47 | 3.61 |
| Carbonate_CaCO3 | mg/L | 0.1 | | | 57 |
| Hydroxide_CaCO3 | mg/L | 0.1 | | | 0.1 |
| Copper | mg/L | 0.005 | 105 | .413 | 0.015 |
| Bicarbonate_CaCO3 | mg/L | 0.1 | | | 56.4 |
| Carbonate_Alkalinity | mg/L | 0.1 | | | 0.5 |
| Hydrogen_Sulfide | mg/L | 0.5 | | | - |

Data Release Authorization

Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FDL DW and EPA approved methodology.

[signature]

[illegible], Ph.D.
Technical Director

Page 1 of 1

Jefferson L. Flowers, Ph.D
Jefferson S. Flowers, Ph.D
481 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS 407 339-5984
Fax 407 260-6170

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Apr 9 1991
PO Number: 22272
PO Number Windsong
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WATER SAMPLE
Date Received: Mar27 1991 Lab Number : 16556

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16556 |
|---|---|---|---|---|---|
| Iron | mg/L | 0.01 | 101 | .432 | 0.099 |
| Magnesium | mg/L | 0.01 | 109 | .722 | 5.75 |
| Manganese | mg/L | 0.005 | 102 | .728 | 0.05 |
| Sulfate | mg/L | 0.2 | 91.5 | 2.1 | 2 |
| Zinc | mg/L | 0.001 | 102 | 1.05 | 0.004 |
| Carbon_Dioxide | mg/L | 0.1 | | | 1.1 |
| Color | mg/L | 5 | - | .000 | 10 |
| Total_Hardness | mg/L | 0.1 | | | 126 |
| NCH_as_CaCO3 | mg/L | 0.1 | | | 79 |
| Odor(TON) | TON | 1 | - | - | <1 |
| Field_pH | pH | 0.01 | | | 7.3 |
| Lab_pH | pH | 0.01 | 100 | .216 | 8 |
| Field Conductivity | umhos/c | 0.01 | | | 8.2 |
| Total Alkalinity | mg/L | 0.1 | 105 | .050 | 57 |
| TDS | mg/L | 2.5 | 95.2 | 3.77 | 147 |
| Phenolphthalein Alk. | mg/L | 0.1 | | | - |
| Field Temp. (C) | oC | 1 | | | 25.6 |
| Langelier Index | LI | 0.01 | | | -0.03 |
| Saturation Index | pHs | 0.01 | | | 8.02 |
| Stability Index | pH | 0.01 | | | 8.06 |
| Foaming Agents | mg/L | 0.1 | 99.9 | .310 | <0.1 |
| Field DO | mg/L | 0.1 | | | 2 |
| Field Chlorine | mg/L | 0.1 | | | - |

Data Release Authorization

Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FDL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director

Page 1 of 1

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P.O. BOX 450-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984
FAX (407) 260-6[illegible]

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 3494291
Public Water System Name Windsong Osceola Co.
Public Water System Type (check one):
(X)Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyz Turbidity_X_;Inorganic_X_; Trihalomethane ___;
Volatile Organic___; Organic Chemical_X_; Secondary Chemical_X_; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number 16556
Sample Location (be specific): _____
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
( )Raw ( )Well ( )Resample
( )Special_____
Sampler Name, Title Phone:_____
_____

**ANALYSIS INFORMATION**
Extraction Date 4/1/91
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTEL Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature: _____

Name **Dr. Jefferson S Flowers**

Title **Technical Director**

Laboratory **Flowers Chemical Laboratories,Inc.**

Date 4/9/91

Mail Results to the Appropriate DER or ACPHU Office:
_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 06/01/8 () Satisfactory () Unsatisfactory

## Turbidity Analysis
17-550.310(3)
(PWS026)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(NTU | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 0100 | Turbidity | 16556 | 1 | .420 | EPA180.1 | 0.05 | 4/2/91 |

Comments:

## Inorganic Analysis
17-550.310(1)
(PWS030)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1005 | Arsenic | 16556 | 0.05 | <0.0005 | EPA206.3 | 0.0005 | 4/5/91 |
| 1010 | Barium | 16556 | 1 | .200 | EPA208.1 | 0.01 | 4/5/91 |
| 1015 | Cadmium | 16556 | 0.01 | .00700 | EPA213.1 | 0.001 | 4/4/91 |
| 1020 | Chromium | 16556 | 0.05 | .00600 | EPA218.1 | 0.005 | 4/4/91 |
| 1025 | Fluoride | 16556 | 4 | .0857 | EPA340.1 | 0.05 | 3/28/91 |
| 1030 | Lead | 16556 | 0.05 | .00540 | EPA239.2 | 0.001 | 4/8/91 |
| 1035 | Mercury | 16556 | 0.002 | <0.0002 | EPA245.1 | 0.0002 | 4/2/91 |
| 1040 | Nitrate(as N) | 16556 | 10 | .0284 | EPA353.1 | 0.01 | 04-03-91 |
| 1045 | Selenium | 16556 | 0.01 | <0.0005 | EPA270.3 | 0.0005 | 4/5/91 |
| 1050 | Silver | 16556 | 0.05 | <0.005 | EPA272.1 | 0.005 | 4/1/91 |
| 1052 | Sodium | 16556 | 160 | .153 | EPA273.1 | 0.002 | 3/28/91 |

Comments:

## Organic Chemical Analysis
17-550.310(2)(a)(b)
(PWS029)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2005 | Endrin | 16556 | 0.0002 | <.000001 | EPA508 | .000001 | 4/1/91 |
| 2010 | Lindane | 16556 | 0.004 | <.000001 | EPA508 | .000001 | 4/1/91 |
| 2015 | Methoxychlor | 16556 | 0.1 | <0.00001 | EPA508 | 0.00001 | 4/3/91 |
| 2020 | Toxaphene | 16556 | 0.005 | <0.0001 | EPA508 | 0.0001 | 4/1/91 |
| 2105 | 2,4-D | 16556 | 0.1 | <0.00005 | EPA515 | 0.00005 | 4/3/91 |
| 2110 | 2,4,5-TP(Silvex) | 16556 | 0.01 | <0.00002 | EPA515 | 0.00002 | 4/3/91 |

Comments:

## Secondary Chemical Analysis
17-550.320
(PWS031)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1016 | Calcium | 16556 | | 45.0 | EPA215.1 | 0.1 | 4/4/91 |
| 1017 | Chloride | 16556 | 250 | 8.61 | EPA300.0 | 0.015 | 04-01-91 |
| 1019 | Carbonate CaCO3 | 16556 | | 57.0 | SM314A | 0.1 | 4/4/91 |
| 1021 | Hydroxide CaCO3 | 16556 | | 0.1 | SM406C | 0.1 | 4/4/91 |
| 1022 | Copper | 16556 | 1 | .0150 | EPA220.1 | 0.005 | 4/3/91 |
| 1023 | Bicarbonate CaCO3 | 16556 | | 56.4 | SM406C | 0.1 | 4/4/91 |
| 1026 | Carbonate Alkalinity | 16556 | | 0.5 | SM406C | 0.1 | 4/4/91 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1027 | Hydrogen Sulfide | 16556 | | | EPA376.1 | 0.5 | |
| 1028 | Iron | 16556 | 0.3 | .0980 | EPA236.1 | 0.01 | 4/2/91 |
| 1031 | Magnesium | 16556 | | 5.75 | EPA242.1 | 0.01 | 4/4/91 |
| 1032 | Manganese | 16556 | 0.05 | .0500 | EPA243.1 | 0.005 | 3/29/91 |
| 1055 | Sulfate | 16556 | 250 | 2.0 | EPA300.0 | 0.200 | 4/8/91 |
| 1095 | Zinc | 16556 | 5 | .00400 | EPA289.1 | 0.001 | 4/3/91 |
| 1901 | Carbon Dioxide | 16556 | | 1.1 | SM406C | 0.1 | 4/4/91 |
| 1905 | Color | 16556 | 15 | 10.0 | EPA110.1 | 5 | 4/1/91 |
| 1915 | Total Hardness | 16556 | | 136.0 | SM314A | 0.1 | 4/4/91 |
| 1917 | NCH as CaCO3 | 16556 | | 79.0 | SM314A | 0.1 | 4/4/91 |
| 1920 | Odor(TON) | 16556 | 3 | <1 | EPA140.1 | 1 | 4/1/91 |
| 1924 | Field pH | 16556 | 6.5-8.5 | 7.3 | EPA150.1 | 0.01 | |
| 1925 | Lab pH | 16556 | 6.5-8.5 | 8.00 | EPA150.1 | 0.01 | 4/1/91 |
| 1926 | Field Conductivity | 16556 | | 8.3 | - | 0.01 | |
| 1927 | Total Alkalinity | 16556 | | 57.0 | EPA310.1 | 0.1 | 3/29/91 |
| 1930 | TDS | 16556 | 500 | 147 | EPA160.1 | 2.5 | 4/1/91 |
| 1931 | Phenolphthalein Alk. | 16556 | | | EPA310.1 | 0.1 | |
| 1996 | Field Temp. (C) | 16556 | | 25.6 | - | | 1 4/4/91 |
| 1997 | Langelier Index | 16556 | -0.2:+0.2 | -0.03 | SM203 | 0.01 | 4/4/91 |
| 1998 | Saturation Index | 16556 | | 8.03 | SM203 | 0.01 | 4/4/91 |
| 1999 | Stability Index | 16556 | | 8.06 | SM203 | 0.01 | 4/4/91 |
| 2909 | Foaming Agents | 16556 | 0.5 | <0.1 | EPA425.1 | 0.1 | 4/1/91 |
| 9996 | Field DO | 16556 | | 2.0 | - | 0.1 | |
| 9997 | Field Chlorine | 16556 | | | - | 0.1 | |

Comments:

FLOWERS
CHEMICAL LABORATORIES INCORPORATED

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS: (407) 339-5984
FAX: (407) 260-6110

# CHAIN OF CUSTODY RECORD

Client SSU
Address 1000 Color Place
Apopka, FL. 32703
Phone 880-0100
Sampled By (PRINT) Bill Trendel
William Trendel 3/27/91
Sampler Signature Date Sampled

FCL Client No. 5033
FCL Project Manager LAURIE SEBECK
FCL Lab Coordinator Steve Welsh
Requested Due Date:

P.O. Number 22373
Project Name / No. WINDSONG #3494391
Contact SAM SPEERS PLANT #78

$475.00

| ITEM NO. | SAMPLE DESCRIPTION | TIME | MATRIX | LAB NO. | NO. OF CONTAINERS | PRESERVATIVES: UNPRESERVED | $H_2SO_4$ | $HNO_3$ | HCl | ANALYSES REQUEST: P-tot-Tot | P-tot-Ort | 5310 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | 16556 | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |

| CARRIER | BAILERS | SHIP DATES: OUT / DATE | RETURNED / DATE | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Stephen Nichols | 3/27 | | | 3/27 | 3:10 |

SPECIAL INSTRUCTIONS
TEMP. 78° F
CONDUCT. 8.3
PH 7.3
D.O. 2.0

SHIP WITH SAMPLES. TO BE RETURNED WITH RESULTS

1120

**General Offices**
1000 Color Place
Apopka, FL 32703
(407) 880-0058

SSU SERVICES

April 24, 1991

Ms. Marie Carrasquillo
State of Florida
Department of Environmental Regulation
3319 Maguire Boulevard
Suite 232
Orlando, Florida 32807-3767

Re: Drinking Water Compliance Analysis
for Windsong Water System
ID #3494291

Dear Ms. Carrasquillo,

Please find enclosed for your records, Volatile Organics and Unregulated Contaminant analysis for the Windsong water treatment plant, well #1.

These results are combined analysis with four (4) other Osceola County wells as listed in the analysis report.

Your continued cooperation and assistance as always, is greatly appreciated.

Sincerely,

SSU Services

Sam Sparks
Division Supervisor

SS/jlm

cc: Charles Sweat
Mel Fisher
Clara Dozier
Ralph Terrero
Osceola County
File

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU

1000 Color Place

Apopka,FL 32703

Date Reported: Mar26 1991

PO Number: 891047

PO Number

FDHRS Lab# : 83139

FDER Lab# : E83018

NCDEHNR Lab# : 296

SCDHEC Lab# : 96019

For: Intercession City/Pine Ridge/Wind Song

Date Received: Mar 4 1991 Lab Number : 16410

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16410 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 115 | 2.45 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 118 | 2.66 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 107 | 2.56 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 107 | 3.56 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 112 | 9.99 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 104 | 2.74 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 104 | 2.13 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 113 | .083 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 113 | .592 | <0.001 |
| Benzene | mg/L | 0.001 | 99.2 | .116 | <0.001 |
| Chloromethane | mg/L | 0.001 | 109 | .669 | <0.001 |
| Dichlorodifluorometh | mg/L | 0.001 | 104 | 2.13 | <0.001 |
| Bromomethane | mg/L | 0.001 | 109 | .669 | <0.001 |
| Chloroethane | mg/L | 0.001 | 107 | 2.56 | <0.001 |
| Trichlorofluorometha | mg/L | 0.001 | 104 | 2.13 | <0.001 |
| trans-1,3-dichlorop | mg/L | 0.001 | 115 | 6.22 | <0.001 |
| cis-1,3-dichloroprop | mg/L | 0.001 | 113 | 11.0 | <0.001 |
| Methyl-tert-butyleth | mg/L | 0.001 | 106 | .005 | <0.001 |
| cis-1,2-dichloroethe | mg/L | 0.001 | 113 | 11.0 | <0.001 |
| Dibromomethane | mg/L | 0.001 | 109 | .669 | 0.001 |
| 1,1,1,2-tetrachloroethane | mg/L | 0.001 | 109 | 4.17 | <0.001 |
| 1,1,2-trichloroethane | mg/L | 0.001 | 115 | 6.22 | <0.001 |
| 1,2,3-trichloropropa | mg/L | 0.001 | 111 | .868 | <0.001 |
| 2,2-dichloropropane | mg/L | 0.001 | 107 | 2.56 | <0.001 |
| 1,2-dibromo-3-chloropr | mg/L | 0.001 | 111 | .868 | <0.001 |
| Chloroform | mg/L | 0.001 | 109 | 3.04 | <0.001 |

Data Release Authorization

Sample integrity and reliability certified by Lab personnel prior to analysis. Methods of analysis in accordance with FDL QA and EPA approved methodology.

Jefferson L. Flowers, Ph.D.
Technical Director

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P.O. BOX 950597
ALTAMONTE SPRINGS
FLORIDA 32795-0597
BUS 407 339-5984

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Mar26 1991
PO Number: 891047

PO Number
FDHRS Lab# : 83139
FDER Lab# : EB3018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: Intercession City/Pine Ridge/Wind Song
Date Received: Mar 4 1991 Lab Number : 16410

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16410 |
|---|---|---|---|---|---|
| Bromoform | mg/L | 0.001 | 117 | 7.51 | <0.001 |
| Bromodichloromethane | mg/L | 0.001 | 120 | .984 | <0.001 |
| Dibromochloromethane | mg/L | 0.001 | 115 | 1.16 | <0.001 |
| p-xylene | mg/L | 0.001 | 104 | 3.29 | <0.001 |
| Methylene chloride | mg/L | 0.001 | 109 | .669 | <0.001 |
| o-chlorotoluene | mg/L | 0.001 | 110 | 5.29 | <0.001 |
| p-chlorotoluene | mg/L | 0.001 | 98.1 | 2.92 | <0.001 |
| m-dichlorobenzene | mg/L | 0.001 | 119 | 2.77 | <0.001 |
| o-dichlorobenzene | mg/L | 0.001 | 109 | 4.27 | <0.001 |
| 1,1-dichloroethane | mg/L | 0.001 | 103 | 1.39 | <0.001 |
| trans-1,2-dichloroet | mg/L | 0.001 | 109 | 2.97 | <0.001 |
| 1,2-dichloropropane | mg/L | 0.001 | 109 | .252 | <0.001 |
| 1,1,2-trichloroethan | mg/L | 0.001 | 119 | 11.1 | <0.001 |
| 1,1,1,2-tetrachloroe | mg/L | 0.001 | 114 | 3.52 | <0.001 |
| 1,1,2,2-tetrachloroe | mg/L | 0.001 | 111 | 10.3 | <0.001 |
| Chlorobenzene | mg/L | 0.001 | 105 | 1.53 | <0.001 |
| Toluene | mg/L | 0.001 | 98.1 | 2.92 | <0.001 |
| Ethylbenzene | mg/L | 0.001 | 99.3 | .933 | <0.001 |
| Bromobenzene | mg/L | 0.001 | 105 | 1.53 | <0.001 |
| m-xylene | mg/L | 0.001 | 104 | 3.29 | <0.001 |
| Styrene | mg/L | 0.001 | 98.1 | 2.92 | <0.001 |
| o-xylene | mg/L | 0.001 | 104 | 3.32 | <0.001 |
| Dalapon | mg/L | 0.000001 | 94.8 | 1.87 | <0.000001 |
| Diquat dibromide | mg/L | 0.002 | 101 | 10.9 | <0.002 |
| Simazine | mg/L | 0.007 | 99.8 | 1.42 | <0.007 |
| Endrin | mg/L | 0.00007 | 117 | 9.67 | <0.00007 |

Date Release Authorization

Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FDL QA and EPA approved methodology.

Deputy Director

Johnson L. Rowan, Ph.D.
Johnson L. Rowan, Ph.D.
481 NEWBURYPORT
P.O. BOX 150597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5584
FAX (407) 260-0117

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Mar26 1991
PO Number: B91047

PO Number
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: Intercession City/Pine Ridge/Wind Song
Date Received: Mar 4 1991 Lab Number : 16410

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %RPD | 16410 |
|---|---|---|---|---|---|
| Dinoseb | mg/L | 0.00001 | 108 | 7.20 | <0.00001 |
| Aldicarb sulfoxide | mg/L | 0.002 | 92.9 | .000 | <0.002 |
| Aldicarb sulfone | mg/L | 0.002 | 100 | 15.1 | <0.002 |
| Metolachlor | mg/L | 0.0005 | 102 | 6.55 | <0.0005 |
| Carbofuran | mg/L | 0.001 | 100 | 5.84 | <0.001 |
| Aldicarb | mg/L | 0.002 | 92.0 | 9.71 | <0.002 |
| Atrazine | mg/L | 0.002 | 101 | 1.19 | <0.002 |
| Alachlor (Lasso) | mg/L | 0.0002 | 102 | 11.8 | <0.0002 |
| Heptachlor | mg/L | 0.000005 | 99.3 | 2.71 | <0.000005 |
| Aldrin | mg/L | 0.00007 | 110 | 1.03 | <0.00007 |
| Dieldrin | mg/L | 0.00001 | 91.5 | .773 | <0.00001 |
| Dicamba | mg/L | 0.00001 | 107 | 7.97 | <0.00001 |
| Chlordane | mg/L | 0.00001 | 100 | 2.29 | <0.00001 |
| Pentachlorophenol | mg/L | 0.005 | 104 | 2.90 | <0.005 |
| Hexachlorocyclopentadiene | mg/L | 0.001 | 104 | 7.52 | <0.001 |
| Dioxin | mg/L | 0.00001 | 97.9 | 3.61 | <0.00001 |
| Isophorone | mg/L | 0.001 | 90.3 | 19.0 | <0.001 |
| 2,4-dinitrotoluene | mg/L | 0.001 | 90.0 | .857 | <0.001 |
| Dimethylphthalate | mg/L | 0.001 | 97.2 | .592 | <0.001 |
| Diethylphthalate | mg/L | 0.001 | 97.4 | 11.5 | <0.001 |
| Di-n-butylphthalate | mg/L | 0.001 | 101 | 0.0 | <0.001 |
| Butyl benzyl phtha l | mg/L | 0.001 | 96.0 | 4.27 | <0.001 |
| Bis(2-ethylhexyl)pht | mg/L | 0.001 | 103 | 2.68 | <0.001 |
| 1,2,4-trichlorobenze | mg/L | 0.001 | 97.4 | 13.1 | <0.001 |
| PCB_1016 | mg/L | 0.0001 | 97.7 | 2.75 | <0.0001 |
| PCB_1221 | mg/L | 0.0001 | 99.0 | 1.00 | <0.0001 |

Data Release Authorization

Sample integrity and reliability certified by Lab personnel prior to analysis. Methods of analysis in accordance with FDA, EPA approved methodology.

Johnson L. Revere, Ph.D
Johnson S. Revere, Ph.D
481 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
1900 Color Place
Apopka,FL 32703

Date Reported: Mar26 1991
PO Number: 891047

PO Number
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: Intercession City/Pine Ridge/Wind Song
Date Received: Mar 4 1991 Lab Number : 16410

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16410 |
|---|---|---|---|---|---|
| PCB_1232 | mg/L | 0.0001 | 102 | 2.36 | <0.0001 |
| PCB_1242 | mg/L | 0.0001 | 102 | 2.08 | <0.0001 |
| PCB_1248 | mg/L | 0.0001 | 98.4 | 2.01 | <0.0001 |
| PCB_1254 | mg/L | 0.0001 | 96.6 | 1.76 | <0.0001 |
| PCB_1260 | mg/L | 0.0001 | 101 | .559 | <0.0001 |
| Diactylphthalate | mg/L | 0.001 | 100 | 2.63 | <0.001 |
| 2-chlorophenol | mg/L | 0.001 | 94.0 | 6.62 | <0.001 |
| 2-methyl-4,6-dinitrop | mg/L | 0.001 | 100 | 9.37 | <0.001 |
| henol | mg/L | 0.001 | 105 | 4.60 | <0.001 |
| 2,4,6-trichlorophenol | mg/L | 0.001 | 91.8 | 7.70 | <0.001 |

Data Release Authorization

Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FDL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director

Page - 04 -

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS 407 339-5564
FAX 407 260-0117

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: FL 6423 42
Public Water System Na Windsong Osceola Co
Public Water System Type (check one):
(X)Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyzed: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide_X_;
Unregulated Base Neutral Extractable_X_;Unregulated Acid Extractable__X_;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number 16410
Sample Location (be specific): _____
Sample Type (check all applicable):
( )Check (X)Regular Distribution (X)Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
(X)Raw (X)Well ( )Resample
( )Special_____
Sampler Name, Title Phone:_____
_____

**ANALYSIS INFORMATION**
Extraction Date 3/17/91
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTED Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature:_____

Name Dr Jefferson S Flowers

Title Technical Director

Laboratory Flowers Chemical Laboratories,inc.

Date 3/26/91

Mail Results to the Appropriate DER or ACPHU Office:
_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 06/01/8 () Satisfactory () Unsatisfactory

Volatile Organic Analysis
17-550.310(2)(d)
(PWS029)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 16410 | .00002 | <.000005 | EPA504.1 | .000005 | 3/22/91 |
| 2969 | Para-dichlorobenzene | 16410 | .075 | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2976 | Vinyl chloride | 16410 | 0.001 | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2977 | 1,1-dichloroethene | 16410 | 0.007 | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2980 | 1,2-dichloroethane | 16410 | 0.003 | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2981 | 1,1,1-trichloroethane | 16410 | 0.2 | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2982 | Carbon tetrachloride | 16410 | 0.003 | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2984 | Trichloroethene | 16410 | 0.003 | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2987 | Tetrachloroethene | 16410 | 0.003 | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2990 | Benzene | 16410 | 0.001 | <0.001 | EPA502.2 | 0.001 | 3/17/91 |

Comments:

Unregulated Organic Purgeable Analysis
17-550.410(1)
(PWS034)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2210 | Chloromethane | 16410 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2212 | Dichlorodifluoromethan | 16410 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2214 | Bromomethane | 16410 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2216 | Chloroethane | 16410 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2218 | Trichlorofluoromethane | 16410 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2224 | trans-1,3,-dichloroprop | 16410 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2228 | cis-1,3-dichloropropene | 16410 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2251 | Methyl-tert-butylether | 16410 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2380 | cis-1,2-dichloroethene | 16410 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2408 | Dibromomethane | 16410 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2410 | 1,1-dichloropropene | 16410 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2412 | 1,3-dichloropropane | 16410 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2414 | 1,2,3-trichloropropane | 16410 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2416 | 2,2-dichloropropane | 16410 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2931 | 1,2-dibromo-3-chloropr | 16410 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2941 | Chloroform | 16410 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2942 | Bromoform | 16410 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2943 | Bromodichloromethane | 16410 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2944 | Dibromochloromethane | 16410 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2962 | p-xylene | 16410 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2964 | Methylene chloride | 16410 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2965 | o-chlorotoluene | 16410 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2966 | p-chlorotoluene | 16410 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2967 | m-dichlorobenzene | 16410 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2968 | o-dichlorobenzene | 16410 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2978 | 1,1-dichloroethane | 16410 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2979 | trans-1,2-dichloroethyl | 16410 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2983 | 1,2-dichloropropane | 16410 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 2985 | 1,1,2-trichloroethane | 16410 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2986 | 1,1,1,2-tetrachloroethar | 16410 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2988 | 1,1,2,2-tetrachloroethar | 16410 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2989 | Chlorobenzene | 16410 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2991 | Toluene | 16410 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2992 | Ethylbenzene | 16410 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2993 | Bromobenzene | 16410 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2995 | m-xylene | 16410 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2996 | Styrene | 16410 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |
| 2997 | o-xylene | 16410 | | <0.001 | EPA502.2 | 0.001 | 3/17/91 |

Comments:

Unregulated Organic Pesticide Analysis
17-550.410(2)
(PWS035)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2031 | Dalapon | 16410 | | <.000001 | EPA515 | .000001 | 3/18/91 |
| 2036 | Oxamyl (Vydate) | 16410 | | <0.002 | EPA531 | 0.002 | 3/14/91 |
| 2037 | Simazine | 16410 | | <0.007 | EPA505 | 0.007 | 3/18/91 |
| 2040 | Pictoram | 16410 | | <0.00007 | EPA515 | 0.00007 | 3/18/91 |
| 2041 | Dinoseb | 16410 | | <0.00001 | EPA515 | 0.00001 | 3/18/91 |
| 2043 | Aldicarb sulfoxide | 16410 | | <0.002 | EPA531 | 0.002 | 3/14/91 |
| 2044 | Aldicarb sulfone | 16410 | | <0.002 | EPA531 | 0.002 | 3/14/91 |
| 2045 | Metolachlor | 16410 | | <0.0005 | EPA505 | 0.0005 | 3/18/91 |
| 2046 | Carbofuran | 16410 | | <0.001 | EPA531 | 0.001 | 3/14/91 |
| 2047 | Aldicarb | 16410 | | <0.002 | EPA531 | 0.002 | 3/14/91 |
| 2050 | Atrazine | 16410 | | <0.002 | EPA505 | 0.002 | 3/18/91 |
| 2051 | Alachlor (Lasso) | 16410 | | <0.0002 | EPA505 | 0.0002 | 3/18/91 |
| 2065 | Heptachlor | 16410 | | <.000005 | EPA508 | .000005 | 3/15/91 |
| 2356 | Aldrin | 16410 | | <0.00007 | EPA508 | 0.00007 | 3/15/91 |
| 2364 | Dieldrin | 16410 | | <0.00001 | EPA508 | 0.00001 | 3/15/91 |
| 2440 | Dicamba | 16410 | | <0.00001 | EPA515 | 0.00001 | 3/15/91 |
| 2959 | Chlordane | 16410 | | <0.00001 | EPA508 | 0.00001 | 3/15/91 |
| 9114 | Pentachlorophenol | 16410 | | <0.005 | EPA515 | 0.005 | 3/15/91 |

Comments:

Unregulated Base Neutral Extractable Analysis
17-550.410(3)
(PWS036)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2042 | Hexachlorocyclopentadie | 16410 | | <0.001 | EPA508 | 0.001 | 3/15/91 |
| 2063 | Dioxin | 16410 | | <0.00001 | EPA613 | 0.00001 | 3/15/91 |
| 2262 | Isophorone | 16410 | | <0.001 | EPA609 | 0.001 | 3/22/91 |
| 2270 | 2,4-dinitrotoluene | 16410 | | <0.001 | EPA609 | 0.001 | 3/22/91 |
| 2282 | Dimethylphthalate | 16410 | | <0.001 | EPA606 | 0.001 | 3/22/91 |
| 2284 | Diethylphthalate | 16410 | | <0.001 | EPA606 | 0.001 | 3/22/91 |
| 2290 | Di-n-butylphthalate | 16410 | | <0.001 | EPA606 | 0.001 | 3/22/91 |
| 2294 | Butyl benzyl phthalate | 16410 | | <0.001 | EPA606 | 0.001 | 3/22/91 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 2298 | Bis(2-ethylhexyl)phthal | 16410 | | <0.001 | EPA606 | 0.001 | 3/22/91 |
| 2378 | 1,2,4-trichlorobenzene | 16410 | | <0.001 | EPA612 | 0.001 | 3/22/91 |
| 2388 | PCB-1016 | 16410 | | <0.0001 | EPA505 | 0.0001 | 3/15/91 |
| 2390 | PCB-1221 | 16410 | | <0.0001 | EPA505 | 0.0001 | 3/15/91 |
| 2392 | PCB-1232 | 16410 | | <0.0001 | EPA505 | 0.0001 | 3/15/91 |
| 2394 | PCB-1242 | 16410 | | <0.0001 | EPA505 | 0.0001 | 3/15/91 |
| 2396 | PCB-1248 | 16410 | | <0.0001 | EPA505 | 0.0001 | 3/15/91 |
| 2398 | PCB-1254 | 16410 | | <0.0001 | EPA505 | 0.0001 | 3/15/91 |
| 2400 | PCB-1260 | 16410 | | <0.0001 | EPA505 | 0.0001 | 3/15/91 |
| 9089 | Dioctylphthalate | 16410 | | <0.001 | EPA606 | 0.001 | 3/22/91 |

Comments:

Unregulated Acid Extractable Analysis
17-550.410(4)
(PWS037)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 9108 | 2-chlorophenol | 16410 | | <0.001 | EPA604 | 0.001 | 3/22/91 |
| 9112 | 2-methyl-4,6-dinitophe | 16410 | | <0.001 | EPA604 | 0.001 | 3/22/91 |
| 9115 | Phenol | 16410 | | <0.001 | EPA604 | 0.001 | 3/22/91 |
| 9116 | 2,4,6-trichlorophenol | 16410 | | <0.001 | EPA604 | 0.001 | 3/22/91 |

Comments:

FLOWERS CHEMICAL LABORATORIES INCORPORATED

ANALYTICAL & CONSULTING CHEMISTS

# CHAIN OF CUSTODY RECORD

Sam Sparks

| CLIENT | ADDRESS | PHONE |
|---|---|---|
| SSU | 1000 Colon Place Apopka, FL 32703 | 880-0058 x162 |
| PROJECT NAME: B91047 | REQUIRED: ☐ Urgent ☐ Routine | DATE |

| Sample Containers QTY | Preservative: HNO3 | H2SO4 | HCl | Na2S2O3 | Zn(C2H3O2)/NaOH | NaOH/AscAcid | | Plastic Containers: 60mL | 125mL | 250mL | 500mL | 1L | 2L | Whirl-Pak Bag | | Glass Containers: 40mL Vial | 250mL | 500mL | 1L | 2L | 4L | | NOTES: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | | | | | | | | | | | | | | | | X | | | | | | | 5 wells / 1 sample (Lab Compound Yields) |
| 1 | | | | | | | | | | | | | | | | | | | | | X | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |

| Kit Relinquished: | Date: Time: | Kit Received: | Date: Time: |
|---|---|---|---|

Parameters: Poc UW Reg

| Laboratory Number | Client Identification/Description |
|---|---|
| #780 | Intercession City |
| #782 16410 | Pine Ridge |
| #783 | Wind Song |

| | | Date | Time |
|---|---|---|---|
| Sample Collection: | Bill Sunder | 3/3/91 | 9:30 |
| Transportation: | Bill Sunder | 3/4/91 | |
| Lab Acceptance: | | 3/4/91 | 1:40 |

Page _____ of _____

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.

481 NEWBURYPORT
P O BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
305 407 339-5984

S S U
SERVICES

**General Offices**
1000 Color Place
Apopka, FL 32703
(407) 880-0058

June 28, 1991

Ms. Marie Carrasquillo
State of Florida
Department of Environmental Regulation
3319 Maguire Boulevard
Suite 232
Orlando, Florida 32807-3767

Re: Drinking Water Compliance Analysis
Windsong Water System
ID #3494291

Dear Ms. Carrasquillo,

Please find enclosed for your records, second quarter Volatile Organic analysis for the Windsong water treatment plant, well #1.

These results are combined analysis with four (4) other Osceola County wells as listed in the analysis report.

Your continued cooperation and assistance as always, is greatly appreciated.

Sincerely,

SSU Services

Sam Sparks
Division Supervisor

SS/jlm
cc: Charles Sweat
Mel Fisher
Clara Dozier
Osceola County
File

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Jun11 1991
PO Number: 891045
PO Number SSU
FDHRS Lab# : 91139
FDER Lab# : 880015
NCDEHNR Lab# : 296
SCDHEC Lab# : 9e019

For: COMP. SAMPLE
Date Received: Jun 6 1991 Lab Number : 17110
REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %REC | %RPD | 17110 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 95.4 | 3.91 | 0.000005 |
| Parachlorobenzene | mg/L | 0.001 | 104 | .587 | 0.001 |
| Vinyl chloride | mg/L | 0.001 | 111 | 7.55 | 0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 112 | 7.55 | 0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 117 | 1.89 | 0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 111 | .621 | 0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 111 | 3.05 | 0.001 |
| Trichloroethene | mg/L | 0.001 | 111 | .709 | 0.001 |
| Tetrachloroethene | mg/L | 0.001 | 107 | .745 | 0.001 |
| Benzene | mg/L | 0.001 | 115 | .116 | 0.001 |

Data Release Author is

Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FDLR Chapter 17-7 EPA approved methods only.

Andrew Harrison
Laboratory Manager

Page 1 of 1

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P.O. BOX 150597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS 407 339-5984
FAX 407 260-6110

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 3494291
Public Water System Name Wimauma
Public Water System Type (check one):
( )Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyzed: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number 17110
Sample Location (be specific): _____
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
( )Raw ( )Well ( )Resample
( )Special_____
Sampler Name, Title Phone:_____
_____

**ANALYSIS INFORMATION**
Extraction Date ___/___/____
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTED Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature:_____

Name **Andrew B. Harrison**

Title **Laboratory Manager**

Laboratory **Flowers Chemical Laboratories,Inc.**

Date 6/10/91

Mail Results to the Appropriate DER or ACPHU Office:
_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 06/01/8 () Satisfactory () Unsatisfactory

Volatile Organic Analysis
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 17110 | .00002 | <.000005 | EPA504.1 | .000005 | 6/7/91 |
| 2969 | Para-dichlorobenzene | 17110 | .075 | <0.001 | EPA502.2 | 0.001 | 6/7/91 |
| 2976 | Vinyl chloride | 17110 | 0.001 | <0.001 | EPA502.2 | 0.001 | 6/7/91 |
| 2977 | 1,1-dichloroethene | 17110 | 0.007 | <0.001 | EPA502.2 | 0.001 | 6/7/91 |
| 2980 | 1,2-dichloroethane | 17110 | 0.003 | <0.001 | EPA502.2 | 0.001 | 6/7/91 |
| 2981 | 1,1,1-trichloroethane | 17110 | 0.2 | <0.001 | EPA502.2 | 0.001 | 6/7/91 |
| 2982 | Carbon tetrachloride | 17110 | 0.003 | <0.001 | EPA502.2 | 0.001 | 6/7/91 |
| 2984 | Trichloroethene | 17110 | 0.003 | <0.001 | EPA502.2 | 0.001 | 6/7/91 |
| 2987 | Tetrachloroethene | 17110 | 0.003 | <0.001 | EPA502.2 | 0.001 | 6/7/91 |
| 2990 | Benzene | 17110 | 0.001 | <0.001 | EPA502.2 | 0.001 | 6/7/91 |

Comments:

[redacted]

FDER Lab E83018
FDHRS Lab 83130
NCDEHNR Lab 248
SCDHEC Lab 96018

ANALYTICAL & CONSULTING CHEMISTS
CHAIN OF CUSTODY RECORD
DRINKING WATER 17-550

Attn: Sam Sparks

(1)Client: LSL
(2)Address: 1000 Celebration Apopka FL 32703
(3)Phone: 889-1955
(4)Public Drinking Water ID #:
(5)Public Water System Name:
(6)Project #: 891045
(7)PO#:
(8)Public Water System Type: (X) Community ( ) Non-Community ( ) Special Non-Community

| | Preservative | | Plastic Containers | | | | | | Glass Containers | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | HNO3 | ZnOAc+NaOH | 60ml | 125ml | 250ml | 500ml | 1L | Whirl-Pak 5oz | 40ml | 250ml | 500ml | 1L | 2L | 4L |
| 9 | 15 | | | | | | | | X | | | | | |

NOTES:
(9)Turn Around Time:
10 Working Days:
5 Working Days :
3 Working Days :
1 Working Day :
Other :

Intercession City 2 wells
Pine Ridge Estates 2 wells
Windsong 1 well
5 wells, ALL Comp

(11)Relinquished: [signature] (12)Date 6/24 (13)Time
(14)Received (15)Date (16)Time

SAMPLE INFORMATION; SAMPLE DATE: MONTH:____ DATE____ YEAR____
SAMPLE TYPE ( check all applicable): ( ) check, ( ) regular distribution
( ) composite, ( ) clearance, ( ) max residence time, ( ) plant tap,
(X) raw, (X) well, ( ) resample_____, ( ) special_____
SAMPLER'S NAME: Kimmy Eck TITLE: Operator A PHONE:_____
SAMPLER'S SIGNATURE: [signature]
NOTES:

(No Air Bubble
Keep Cold)

(17)Parameter Group(s) Analyzed: Turbidity__; Inorganic__; Trihalomethane__; Volatile Organics__;
Organic Chemical__; Secondary Chemical__; Radiological__; Unregulated Organic Purgeable__;
Unregulated Organic Pesticide__; Unregulated Base Neutral Extractable__; Unregulated Acid Extractable__;

| (18)Laboratory Number | (19)Client Sample Identification | | |
|---|---|---|---|
| | #1 Intercession City, Well #1 6/3 | #12 Pinehaven Well #2 6/3 | |
| | #2 Intercession City Well #2 6/3 | #13 Windsong 6/3 | |
| | #3 Intercession City Well #1 6/4 | #14 Windsong 6/4 | |
| 17110 | #4 Intercession City Well #2 6/4 | #15 Windsong 6/5 | |
| | #5 Intercession City Well #1 6/5 | | |
| | #6 Intercession City Well #2 6/5 | | |
| | #7 Pinehaven Well #1 6/3 | | |
| | #8 Pinehaven Well #2 6/3 | | |
| | #9 Pinehaven Well #1 6/4 | | |
| | #10 Pinehaven Well #2 6/4 | | |
| | #11 Pinehaven Well #1 6/5 | | |

| | | Date | Time |
|---|---|---|---|
| (20)Collectors Signature: | | 6/3-4-5 | |
| (21)Transporters Signature: | [signature] | 6/6 | |
| (22)Lab Acceptance By: | [signature] | 6/10/91 | 10:10Am |

SSU
SERVICES

**General Offices**
1000 Color Place
Apopka, FL 32703
(407) 880-0058

October 3, 1991

Ms. Marie Carrasquillo
State of Florida
Department of Environmental Regulation
3319 Maguire Boulevard
Suite 232
Orlando, Florida 32803-3767

Re: Drinking Water Compliance Analysis
Wind Song Water System
PWS ID #3494291

Dear Ms. Carrasquillo,

Please find enclosed for your records, third quarter Volatile Organic analysis for the Wind Song treatment plant, well #1.

These results are combined analysis with three (3) other Osceola County wells as listed in the analysis report.

Your continued cooperation and assistance as always, is appreciated.

Sincerely,

SSU Services

Sam Sparks
Area Supervisor

SS/jlm

cc: Charles Sweat
Frank Sanderson
Mel Fisher
Clara Dozier
Osceola County
File

BG1047

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Sep23 1991
PO Number: HOLD REPOR
PO Number Various
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: COMP. SAMPLE
Date Received: Sep18 1991 Lab Number : 17839

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 17839 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 109 | .921 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 97.6 | 5.31 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 116 | 9.11 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 116 | 9.11 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 105 | 9.35 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 109 | 9.18 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 108 | 9.60 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 103 | 9.16 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 89.7 | 6.95 | <0.001 |
| Benzene | mg/L | 0.001 | 102 | 7.68 | <0.001 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director

Page 1 of 1

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
451 NEWBURYPORT
P O BOX 150-507
ALTAMONTE SPRINGS
FLORIDA 32715-0507
BUS 407 339-5986
FAX 407 260-0117

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 3494291
Public Water System Name Wimauma
Public Water System Type (check one):
(X)Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyzed: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number 17839
Sample Location (be specific): _____
Sample Type (check all applicable):
( )Check ( )Regular Distribution (X)Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
( )Raw ( )Well ( )Resample
( )Special_____
Sampler Name, Title Phone:_____
_____

**ANALYSIS INFORMATION**
Extraction Date ___/___/____
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTED Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature: _____

Name Dr. Jefferson S Flowers

Title Technical Director

Laboratory Flowers Chemical Laboratories,Inc.

Date 9/20/91

Mail Results to the
Appropriate DER or ACPHU Office:
_____
_____
_____
_____

DER /ACPHU Reviewing Official:

_____

PWSA.01 Sample Interpretation (check one):
Effective 06/01/8( ) Satisfactory ( ) Unsatisfactory

CHEMICA LABORATORIES INCORPORATED

B 91047

FDER Lab# 820018
FDHRS Lab# 82139
NCCEHNR Lab# 286
SCCHEC Lab# 98015

ANALYTICAL & CONSULTING CHEMISTS
CHAIN OF CUSTODY RECORD
DRINKING WATER 17-550

ATTN: Sam Spears

| (1)Client | (2)Address | (3)Phone |
|---|---|---|
| SSU | 1000 Color Place Apopka, FL 32703 | 880-0058 |

(4)Public Drinking Water ID # | (5)Public Water System Name:

(6)Project # | (8)Public Water System Type: (X) Community ( ) Non-Community ( ) Special Non-Community

(7)PO#

| | Preservative | | Plastic Containers | | | | | | Glass Containers | | | | | | NOTES: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | HNO3 | ZnAC&NaOH | 60ml | 125ml | 250ml | 500ml | 1L | Whirl Pac Bag | 40ml | 250ml | 500ml | 1L | 2L | 4L | |
| (18) 15 | | | | | | | | | X | | | | | | Intersession City - 2 wells #3490673<br>Pine Ridge Est - 2 wells #3490292<br>Windsong - 1 well #3490291 |

(12)Turn Around Time:
10 Working Days:
5 Working Days :
3 Working Days :
1 Working Day :
Other :

| (17)Kit Relinquished: | (17)Date | (9)Kit Received | (9)Date |
|---|---|---|---|
| K. Sebeck | 9-19-91 | | |
| | (17)Time 11:30am | | (9)Time |

(10)Parameter Group(s) Analysed: Turbidity__; Inorganic__; Trihalomethane__; Volatile Organic X; Organic Chemical__; Secondary Chemical__; Radiological__; Unregulated Organic Purgeable__; Unregulated Organic Pesticide · Unregulated Base Neutral Extractable · Unregulated Acid Extractable ·

| (18)Laboratory Number | (11)Client Sample Identification |
|---|---|
| 17839 | #1 |
| | #2 |
| | #3 |
| | #4 |
| | #5 |
| | #6 |
| | #7 |
| | #8 |
| | #9 |
| | #10 |

| | | Date | Time |
|---|---|---|---|
| (13)Collectors Signature: | (Bill Jones) | 9/18 | |
| (14)Transporters Signature: | (Bill Jones) | 9/18 | 3:25 |
| (15)Lab Acceptance By: | | 9/18 | 3:32 |

Over for numbered instructions.

Volatile Organic Analysis
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 17839 | .00002 | <.000005 | EPA504.1 | .000005 | 9/19/91 |
| 2969 | Para-dichlorobenzene | 17839 | .075 | <0.001 | EPA502.2 | 0.001 | 9/19/91 |
| 2976 | Vinyl chloride | 17839 | 0.001 | <0.001 | EPA502.2 | 0.001 | 9/19/91 |
| 2977 | 1,1-dichloroethene | 17839 | 0.007 | <0.001 | EPA502.2 | 0.001 | 9/19/91 |
| 2980 | 1,2-dichloroethane | 17839 | 0.003 | <0.001 | EPA502.2 | 0.001 | 9/19/91 |
| 2981 | 1,1,1-trichloroethane | 17839 | 0.2 | <0.001 | EPA502.2 | 0.001 | 9/19/91 |
| 2982 | Carbon tetrachloride | 17839 | 0.003 | <0.001 | EPA502.2 | 0.001 | 9/19/91 |
| 2984 | Trichloroethene | 17839 | 0.003 | <0.001 | EPA502.2 | 0.001 | 9/19/91 |
| 2987 | Tetrachloroethene | 17839 | 0.003 | <0.001 | EPA502.2 | 0.001 | 9/19/91 |
| 2990 | Benzene | 17839 | 0.001 | <0.001 | EPA502.2 | 0.001 | 9/19/91 |

Comments:

S S U
SERVICES

**General Offices**
1000 Color Place
Apopka, FL 32703
(407) 880-0058

January 2, 1992

Ms. Marie Carrasquillo
State of Florida
Department of Environmental Regulation
3319 Maguire Boulevard
Suite 232
Orlando, FL 32807-3767

**Re: Drinking Water Compliance Analysis**
**Windsong Estates/ PWS ID # 3494291**

Dear Ms. Carrisquillo:

Please find enclosed for your records, fourth quarter Volatile Organic analysis for the Windsong Estates water treatment plant, well # 1.

These results are combined with four other Osceola County wells as listed in the analysis report.

Your continued cooperation and assistance as always, is appreciated.

Sincerely,

Sam Sparks,
Area Supervisor

\csd

cc: Jim Ragsdale
Frank Sanderson
Mel Fisher
Jim Murray
Osceola County w/ attachments

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Dec19 1991
PO Number: L114113
PO Number Osceola Cty.
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WINDSONG COMP.
Date Received: Dec11 1991 Lab Number : 18476

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 18476 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 99.5 | 10.7 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 84.3 | 4.25 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 86.9 | .367 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 86.9 | .367 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 85.2 | 5.21 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 84.6 | 5.21 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 84.1 | 5.81 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 92.8 | 6.06 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 84.5 | 1.13 | <0.001 |
| Benzene | mg/L | 0.001 | 84.1 | 3.18 | <0.001 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director

Page 1 of 1

Jefferson L. Flowers, PhD
Jefferson S. Flowers, PhD
481 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-4784
FAX (407) 260-0117

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 3494791
Public Water System Name Windcrest
Public Water System Type (check one):
( )Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyz: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___: Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number 18476
Sample Location (be specific): _____
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
( )Raw ( )Well ( )Resample
( )Special_____
Sampler Name, Title Phone:_____
_____

**ANALYSIS INFORMATION**
Extraction Date ___/___/____
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTED Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___: Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature: _____

Name **Dr Jefferson S Flowers**

Title **Technical Director**

Laboratory **Flowers Chemical Laboratories,Inc.**

Date 12/18/91

Mail Results to the
Appropriate DER or ACPHU Office:
_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 06/01/( () Satisfactory () Unsatisfactory

Volatile Organic Analysis
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 18476 | .00002 | <.000005 | EPA504.1 | .000005 | 12/18/91 |
| 2969 | Para-dichlorobenzene | 18476 | .075 | <0.001 | EPA502.2 | 0.001 | 12/12/91 |
| 2976 | Vinyl chloride | 18476 | 0.001 | <0.001 | EPA502.2 | 0.001 | 12/12/91 |
| 2977 | 1,1-dichloroethene | 18476 | 0.007 | <0.001 | EPA502.2 | 0.001 | 12/12/91 |
| 2980 | 1,2-dichloroethane | 18476 | 0.003 | <0.001 | EPA502.2 | 0.001 | 12/12/91 |
| 2981 | 1,1,1-trichloroethane | 18476 | 0.2 | <0.001 | EPA502.2 | 0.001 | 12/12/91 |
| 2982 | Carbon tetrachloride | 18476 | 0.003 | <0.001 | EPA502.2 | 0.001 | 12/12/91 |
| 2984 | Trichloroethene | 18476 | 0.003 | <0.001 | EPA502.2 | 0.001 | 12/12/91 |
| 2987 | Tetrachloroethene | 18476 | 0.003 | <0.001 | EPA502.2 | 0.001 | 12/12/91 |
| 2990 | Benzene | 18476 | 0.001 | <0.001 | EPA502.2 | 0.001 | 12/12/91 |

Comments:

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

FDER Lab# E83018
FDHRS Lab# 85139
NCCEHNR Lab# 290
SCDHEC Lab# 96018

ANALYTICAL & CONSULTING CHEMISTS
CHAIN OF CUSTODY RECORD
DRINKING WATER 17-550

ATTN: BILL

| (1)Client | (2)Address | (3)Phone |
|---|---|---|
| SSU | 1000 Colorplace, Apopka | 407-1-2430 |

(4)Public Drinking Water ID # | (5)Public Water System Name:

(6)Project # | (8)Public Water System Type: (X) Community ( ) Non-Community ( ) Special Non-Community

(7)PO# OSCEOLA CTY.

| | Preservative | | | Plastic Containers | | | | | | Glass Containers | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | HNO3 | Zn(AC)2NaOH | | 60ml | 125ml | 250ml | 500ml | 1L | Whirl Pac Bag | 40ml | 250ml | 500ml | 1L | 2L | 3L |
| (16) 20 | | | | | | | | | | X | | | | | |

NOTES:
(12)Turn Around Time:
10 Working Days:
5 Working Days :
3 Working Days :
1 Working Day :
Other WITHDRAWAL - (1 well) ID# 3490291
TROPICAL PK - (2 wells) ID# 3491958
BAY LAKE - (1 well) ID# 3490090
LAKE ASAY - (1 well) ID# 3491956
INTERSESSION CITY - (2 wells) ID# 3490073
PINE PRONE - (2 wells) ID# 3494292

| (17)Kit Relinquished: | (17)Date | (9)Kit Received | (9)Date |
|---|---|---|---|
| | (17)Time | | (9)Time |

(10)Parameter Group(s) Analysed: Turbidity__; Inorganic__; Trihalomethane__; Volatile Organic X;
Organic Chemical__; Secondary Chemical__; Radiological__; Unregulated Organic Purgeable__;
Unregulated Organic Pesticide__; Unregulated Base Neutral Extractable__; Unregulated Acid Extractable__

| (18)Laboratory Number | (11)Client Sample Identification |
|---|---|
| | #1 Withdrawal |
| 18476 | #2 Tropical [illegible] |
| | #3 Bay Lk [illegible] Comp |
| | #4 Lk Asay |
| | #5 |
| 18477 | #6 |
| | #7 Intersession [illegible] |
| | #8 Pinecrest [illegible] Comp |
| | #9 |
| | #10 |

| | | Date | Time |
|---|---|---|---|
| (13)Collectors Signature: | Bill [illegible] | 12/1 | [illegible] |
| (14)Transporters Signature: | | | |
| (15)Lab Acceptance By: | | 12/15/ | 3:27 |

Over for numbered instructions.

FILE WINDSONG

VOC SOC PAGE 1 OF 6 GLASS

# Orlando Laboratories, Inc.

OLI P. O. Box 19127 • Orlando, Florida 32814 • 305/896-6645

## REPORT OF ANALYSIS

Southern States Utilities
Attn: Aaron Perlowich
1000 Color Place
Apopka, Fla. 32703

Report #: 51756 (4976)
Sample submitted by: Client(Ken Kerlin) *
Date sampled: 02-17-88 @ 11:30 am. *
Date received: 02-17-88
Date reported: 03-22-88
Page 1 of 10

PURPOSE: To analyze the sample for listed parameters
AUTHORIZATION: Sample Identification Form received from client 02-17-88
SAMPLE IDENTIFICATION: Sample submitted and identified by client as: Windsong Distribution.
PROCEDURE: EPA METHOD 624
RESULTS:

RESULTS, ug/l

| PURGEABLE ORGANICS BY GC/MS | RESULTS |
|---|---|
| Benzene | ND(1) |
| Bromodichloromethane | 3 |
| Bromoform | ND(1) |
| Bromomethane | ND(1) |
| Dibromomethane | ND(1) |
| Chlorobenzene | ND(1) |
| Chloroethane | ND(1) |
| 2-Chloroethylvinyl ether | ND(1) |
| Chloroform | 18 |
| Chloromethane | ND(1) |
| Dibromochloromethane | ND(1) |
| 1,1-Dichloroethane | ND(1) |
| Dichlorobenzene | ND(1) |
| 1,1-Dichloroethene | ND(1) |
| trans-1,2-Dichloroethene | ND(1) |
| 1,2-Dichloropropane | ND(1) |
| cis-1,3-Dichloropropene | ND(1) |
| trans-1,3-Dichloropropene | ND(1) |
| Ethylbenzene | ND(1) |

* Sampling information based on data supplied by client.
ND = Not detected to the levels in parentheses.

Respectfully submitted,
ORLANDO LABORATORIES, INC.

Martin A. Zenas
Laboratory Manager

Quality Control

OLI Florida Department of Health & Rehabilitative Service Identification Number is 83141.

PROCEDURE: EPA METHOD 624

| PURGEABLE ORGANICS BY GC/MS - Cont. | RESULTS |
|---|---|
| Methylene Chloride | ND(1) |
| Styrene | ND(1) |
| 1,1,2,2-Tetrachloroethane | ND(1) |
| Dichloromethane | ND(1) |
| Toluene | ND(1) |
| 1,1-Dichloropropene | ND(1) |
| 1,1,2-Trichloroethane | ND(1) |
| 1,3-Dichloropropane | ND(1) |
| Trichlorofluoromethane | ND(1) |
| Bromobenzene | ND(1) |
| meta - Xylene | ND(1) |
| ortho, para - Xylenes | ND(1) |
| 1,2-Dibromo-3-chloropropane | ND(1) |
| Dichlorodifluoromethane | ND(1) |

| GC/MS VOLATILE SCAN | |
|---|---|
| Acrolein | ND(100) |
| Acrylonitrile | ND(100) |
| n-Hexane | ND(10) |
| 2,2-Dichloropropane | ND(1) |
| 1,1,1,2-Tetrachloroethane | ND(1) |
| 1,2,3-Trichloropropane | ND(1) |
| 1,3-Dichlorobenzene | ND(1) |
| 1,4-Dichlorobenzene | ND(1) |

PROCEDURE: EPA METHOD 625

| ACID EXTRACTABLE ORGANICS BY GC/MS | |
|---|---|
| 4-Chloro-3-methyl phenol | ND(10) |
| 2-Chlorophenol | ND(10) |
| 2,4-Dichlorophenol | ND(10) |
| 2,4-Dimethylphenol | ND(10) |
| 2,4-Dinitrophenol | ND(10) |
| 2-Methyl-4,6-dinitrophenol | ND(10) |
| 2-Nitrophenol | ND(10) |
| 4-Nitrophenol | ND(10) |
| Pentachlorophenol | ND(10) |
| Phenol | ND(10) |
| 2,4,6-Trichlorophenol | ND(10) |

Southern States Utilities
Attn: Aaron Perlowich

Report #: 51756 (4976)


PROCEDURE: EPA METHOD 625

| BASE/NEUTRAL EXTRACTABLES BY GC/MS | RESULTS |
|---|---|
| Acenapthene | ND(10) |
| Acenapthylene | ND(10) |
| Anthracene | ND(10) |
| Benzidine | ND(50) |
| Benzo(a)anthracene | ND(10) |
| Benzo(b)fluoranthene | ND(10) |
| Benzo(k)fluoranthene | ND(10) |
| Benzo(a)pyrene | ND(10) |
| Benzo(g,h,i)perylene | ND(10) |
| Benzyl-butyl phthalate | ND(10) |
| bis(2-Chloroethyl)ether | ND(10) |
| bis(2-Chloroethoxy)methane | ND(10) |
| bis(2-Ethylhexyl)phthalate | ND(10) |
| bis(2-Chloroisopropyl)ether | ND(10) |
| 4-Bromophenyl phenyl ether | ND(10) |
| 2-Chloronaphthalene | ND(10) |
| o-Chlorotoluene | ND(10) |
| p-Chlorotoluene | ND(10) |
| 4-Chlorophenyl phenyl ether | ND(10) |
| Chrysene | ND(10) |
| Dibenzo(a,h)anthracene | ND(10) |
| Di-n-butyl-phthalate | ND(10) |
| 1,2-Dichlorobenzene | ND(10) |
| 1,3-Dichlorobenzene | ND(10) |
| 1,4-Dichlorobenzene | ND(10) |
| 3,3-Dichlorobenzidine | ND(10) |
| Diethyl phthalate | ND(10) |
| Dimethyl phthalate | ND(10) |
| 2,4-Dinitrotoluene | ND(10) |
| 2,6-Dinitrotoluene | ND(10) |
| Di-n-octyl-phthalate | ND(10) |
| 1,2-Diphenylhydrazine | ND(10) |
| Fluoranthene | ND(10) |
| Fluorene | ND(10) |

Southern States Utilities
Attn: Aaron Perlowich

Report #: 51756 (4976)


PROCEDURE: EPA METHOD 625

| BASE/NEUTRAL EXTRACTABLES BY GC/MS - Cont. | RESULTS |
|---|---|
| Hexachlorobenzene | ND(10) |
| Hexachlorobutadiene | ND(10) |
| Hexachlorocyclopentadiene | ND(10) |
| Hexachloroethane | ND(10) |
| Ideno(1,2,3-c,d)pyrene | ND(10) |
| Isophorone | ND(10) |
| Naphthalene | ND(10) |
| Nitrobenzene | ND(10) |
| n-Nitrosodimethylamine | ND(10) |
| n-Nitrosodi-n-propylamine | ND(10) |
| n-Nitrosodiphenylamine | ND(10) |
| Phenanthrene | ND(10) |
| Pyrene | ND(10) |
| 2,3,7,8-Tetrachlorodi-benzo-p-dioxin (dioxin) | ND(10) |
| 1,2,4-Trichlorobenzene | ND(10) |

PROCEDURE: EPA METHOD 608

| ORGANOCHLORINE PESTICIDES | |
|---|---|
| Alpha-BHC | ND(1) |
| Beta-BHC | ND(1) |
| Delta-BHC | ND(1) |
| Gamma-BHC | ND(1) |
| Heptachlor | ND(1) |
| Aldrin | ND(1) |
| Heptachlor epoxide | ND(1) |
| Endosulfan I | ND(1) |
| Dieldrin | ND(1) |
| 4,4'-DDE | ND(1) |
| O,p-DDE | ND(1) |
| Endosulfan II | ND(1) |
| 4,4'-DDD | ND(1) |
| O,p-DDD | ND(1) |
| Endosulfan sulfate | ND(1) |
| 4,4'-DDT | ND(1) |
| O,p-DDT | ND(1) |
| Endrin aldehyde | ND(1) |

PROCEDURE: EPA METHOD 608

| ORGANOCHLORINE PESTICIDES - Cont. | RESULTS |
|---|---|
| Alpha-Chlordane | ND(1) |
| Gamma-Chlordane | ND(1) |
| Kelthane | ND(1) |
| Toxaphene | ND(5) |

| POLYCHLORINATED BIPHENYLS, PCB's | |
|---|---|
| Arochlor 1016 | ND(5) |
| Arochlor 1221 | ND(5) |
| Arochlor 1232 | ND(5) |
| Arochlor 1242 | ND(5) |
| Arochlor 1248 | ND(5) |
| Arochlor 1254 | ND(5) |
| Arochlor 1260 | ND(5) |

| ORGANOPHOSPHORUS PESTICIDES | |
|---|---|
| Diazinon | ND(50) |
| Ethion | ND(50) |
| Guthion (Azinphos methyl) | ND(50) |
| Malathion | ND(50) |
| Parathion | ND(50) |
| Tedion | ND(10,000) |
| Trithion (Carbophenothion) | ND(50) |

| MISCELLANEOUS PRIORITY POLLUTANTS | |
|---|---|
| Ethylene Dibromide, EDB (ug/l) | ND(0.02) |
| Temik®, Aldicarb (mg/l) | ND(0.010) |

Southern States Utilities
Attn: Aaron Perlowich

Report #: 51756 (4976)


PURPOSE: To analyze sample for Secondary Drinking Water Regulations
PROCEDURE: This water was analyzed according to "Standard Methods for the Examination of Water and Wastewater", 16th Edition, APHA, AWWA, and WPCF (1985).
RESULTS:

| DETERMINATION | (MCL) | RESULTS | UNITS |
|---|---|---|---|
| Chloride, Cl | (250) | 11 | mg/l |
| Color | (15) | <5 | PCU |
| Foaming Agents, (MBAS) | (0.5) | <0.1 | mg/l |
| Sulfate, $SO_4$ | (250) | <1.0 | mg/l |
| Total Dissolved Solids | (500) | 170 | mg/l |
| pH (Laboratory) | (6.5-8.5) | 7.3 | units |
| Odor Threshold | (3) | 1 | units |
| Corrosivity | (-0.2 to +0.2) | -0.5 | units |
| Copper, Cu | (1.0) | 0.012 | mg/l |
| Iron, Fe | (0.3) | 0.202 | mg/l |
| Manganese, Mn | (0.05) | <0.050 | mg/l |
| Zinc, Zn | (5) | <0.050 | mg/l |
| Phenolphthalein Alkalinity, $CaCO_3$ | | 0 | mg/l |
| Total Alkalinity, $CaCO_3$ | | 117 | mg/l |
| Carbonate Alkalinity, $CaCO_3$ | | 0 | mg/l |
| Bicarbonate Alkalinity, $CaCO_3$ | | 117 | mg/l |
| Carbonates, $CaCO_3$ | | 0 | mg/l |
| Bicarbonates, $HCO_3$ | | 143 | mg/l |
| Hydroxides, as OH | | 0 | mg/l |
| Carbon Dioxide, $CO_2$ | | 12 | mg/l |
| Fluoride, F | | 0.12 | mg/l |
| pHs | | 7.8 | units |
| Stability Index | | 8.3 | units |
| Specific Conductance, umhos | | 230 | umhos |
| Hydrogen Sulfide, $H_2S$ (F-F) | | 0.2 | mg/l |
| Nitrate Nitrogen, $NO_3$-N | | <0.03 | mg/l |
| Sodium, Na | | 7.0 | mg/l |
| Turbidity | | 1.4 | NTU |
| Total Hardness, $CaCO_3$ | | 115 | mg/l |
| Magnesium Hardness, $CaCO_3$ | | 23.0 | mg/l |
| Calcium Hardness, $CaCO_3$ | | 91.9 | mg/l |
| Calcium, Ca | | 36.8 | mg/l |
| Magnesium, Mg | | 5.59 | mg/l |

PURPOSE: To analyze the sample for Primary Drinking Water Regulations
PROCEDURE: In accordance with Federal Register-Vol. 40, No. 248, Part IV-Wednesday, December 24, 1975. U.S. Environmental Protection Agency, National Interim Primary Drinking Water Regulations.

RESULTS, mg/l

| CONTAMINANT | MCL | SAMPLE |
|---|---|---|
| INORGANIC: | | |
| Arsenic, As | 0.05 | <0.01C |
| Barium, Ba | 1.0 | <0.100 |
| Cadmium, Cd | 0.010 | <0.005 |
| Chromium, Cr | 0.05 | <0.010 |
| Lead, Pb | 0.05 | <0.010 |
| Mercury, Hg | 0.002 | <0.0005 |
| Selenium, Se | 0.01 | <0.005 |
| Silver, Ag | 0.05 | <0.010 |
| Nitrate Nitrogen, $NO_3$-N | 10 | <0.03 |
| Sodium, Na | 160 | 7.0 |
| Turbidity, NTU | 1 NTU | 1.4 |
| Fluoride, F | 1.0 | 0.12 |
| ORGANIC | "ORGANIC ANALYSES BY GAS CHROMATOGRAPHIC SCREENING" | |
| Endrin | 0.0002 | ND(0.0001) |
| Lindane | 0.004 | ND(0.001) |
| Methoxychlor | 0.1 | ND(0.01) |
| Toxaphene | 0.005 | ND(0.005) |
| 2,4-D | 0.1 | ND(0.01) |
| 2,4,5-TP (Silvex) | 0.01 | ND(0.001) |

MCL = Maximum Contaminant Level.

ND = Not detected to the levels in parentheses.

Southern States Utilities
Attn: Aaron Perlowich

Report #: 51756 (4976)


PURPOSE: To analyze the sample for Gross Alpha.
PROCEDURE: EPA METHOD 900.0

**RESULTS, pCi/l**

| DETERMINATION | STORET # | RESULTS |
|---|---|---|
| Gross Alpha | 01501 | <0.5 |
| Counting error | 01502 | +0.4 |

< = Less Than

Southern States Utilities
Attn: Aaron Perlowich

Report #: 51756 (4976)
Page 9 of 10

## QUALITY CONTROL DATA SHEET

**DUPLICATES:**

| PARAMETER | % DIFFERENCE | DATE | ANALYST |
|---|---|---|---|
| Arsenic | 2.5 | 03-02-88 | C.G. |
| Barium | <1.0 | 02-25-88 | C.G. |
| Cadmium | 5.8 | 03-01-88 | A.H. |
| Chromium | 5.5 | 03-03-88 | C.G. |
| Lead | 2.0 | 03-04-88 | C.G. |
| Mercury | <1.0 | 02-29-88 | J.H. |
| Selenium | 5.1 | 02-29-88 | C.G. |
| Silver | 4.0 | 02-23-88 | A.H. |
| Calcium | 1.0 | 03-03-88 | C.G. |
| Magnesium | <1.0 | 03-03-88 | C.G. |
| Iron | 1.7 | 02-23-88 | C.G. |
| Manganese | <1.0 | 03-03-88 | J.H. |
| Copper | <1.0 | 03-02-88 | J.H. |
| Zinc | <1.0 | 02-26-88 | J.H. |
| Chloride | <1.0 | 02-24-88 | A.S. |
| Color | <1.0 | 02-29-88 | A.S. |
| MBAS | <1.0 | 02-29-88 | A.S. |
| Sulfate | <1.0 | 02-25-88 | A.S. |
| TDS | 1.7 | 02-29-88 | B.D. |
| pH | <1.0 | 02-18-88 | B.D. |
| Odor | <1.0 | 02-29-88 | A.S. |
| Total Alkalinity | <1.0 | 02-18-88 | B.D. |
| Fluoride | <1.0 | 02-22-88 | A.S. |
| Hydrogen Sulfide | <1.0 | 03-02-88 | A.S. |
| Nitrates | <1.0 | 02-19-88 | B.D. |
| Sodium | 1.9 | 03-04-88 | B.D. |
| Turbidity | <1.0 | 02-23-88 | A.S. |
| Specific Conductance | <1.0 | 02-22-88 | A.S. |
| Lindane | 12 | 03-15-88 | C.O. |
| Endrin | 12 | 03-15-88 | C.O. |
| Methoxychlor | 17 | 03-15-88 | C.O. |
| 2,4-D | <1.0 | 03-16-88 | C.O. |
| 2,4,5-TP | 2.5 | 03-16-88 | C.O. |
| Ethylene Dibromide | 1.1 | 03-16-88 | C.O. |
| Aldicarb | 8.5 | 03-01-88 | C.O. |
| Gross Alpha | 14 | 02-22-88 | J.B. |

Southern States Utilities
Attn: Aaron Perlowich

Report #: 51756 (4976)


## QUALITY CONTROL DATA SHEET

**SPIKES:**

| PARAMETER | % RECOVERY | DATE | ANALYST |
|---|---|---|---|
| Arsenic | 96 | 03-02-88 | C.G. |
| Barium | 102 | 02-25-88 | C.G. |
| Cadmium | 99 | 03-01-88 | A.H. |
| Chromium | 105 | 03-03-88 | C.G. |
| Lead | 98 | 03-04-88 | C.G. |
| Mercury | 102 | 02-29-88 | J.H. |
| Selenium | 104 | 02-29-88 | C.G. |
| Silver | 98 | 02-23-88 | A.H. |
| Calcium | 101 | 03-03-88 | C.G. |
| Magnesium | 100 | 03-03-88 | C.G. |
| Iron | 96 | 02-23-88 | C.G. |
| Manganese | 97 | 03-03-88 | J.H. |
| Copper | 100 | 03-02-88 | J.H. |
| Zinc | 102 | 02-26-88 | J.H. |
| Chloride | 101 | 02-24-88 | A.S. |
| MBAS | 100 | 02-29-88 | A.S. |
| Sulfate | 93 | 02-25-88 | A.S. |
| TDS | 101 | 02-29-88 | B.D. |
| Total Alkalinity | 101 | 02-18-88 | B.D. |
| Fluoride | 99 | 02-22-88 | A.S. |
| Hydrogen Sulfide | 107 | 03-02-88 | A.S. |
| Nitrates | 102 | 02-19-88 | B.D. |
| Sodium | 100 | 03-04-88 | B.D. |
| Lindane | 70 | 03-15-88 | C.O. |
| Endrin | 105 | 03-15-88 | C.O. |
| Methoxychlor | 88 | 03-15-88 | C.O. |
| 2,4-D | 73 | 03-16-88 | C.O. |
| 2,4,5-TP | 79 | 03-16-88 | C.O. |
| Ethylene Dibromide | 91 | 03-16-88 | C.O. |
| Aldicarb | 90 | 03-01-88 | C.O. |
| Gross Alpha | 92 | 02-22-88 | J.B. |
| Gross Alpha | 97 | 02-22-88 | J.B. |

HRS

State of Florida
Department of Health and Rehabilitative Services
Office of Laboratory Services
P.O. Box 210
Jacksonville, Florida 32231

FOR LAB USE ONLY
RECD ORL
DEC 9 3 36 PM '91
BY: D Rollins
12/10

# DRINKING WATER BACTERIOLOGICAL ANALYSIS

SYSTEM NAME: Woodsong SYSTEM I.D. NO: 3490491 SYSTEM PHONE #: None

ADDRESS: c/o 1000 Colorplace COUNTY: Osceola DER DISTRICT: 03

COLLECTOR: BILL T COLLECTOR PHONE #: None

SAMPLE SITE (Locality or Subdivision): Woodsong

DATE AND TIME COLLECTED: 12/9 900

TYPE OF SUPPLY(Circle one): (Community water system) Noncommunity water system Nontransient – noncommunity water system
Private well Swimming pool Bottled water Other public water system

TYPE OF SAMPLE(Circle one): Compliance (Check Box) Repeat Replacement (Check Box) Main clearance Well survey Other _____ (Specify)
[X] Distribution [ ] TNTC or C
[ ] Raw [ ] Turbid
[ ]

REMARKS:

| TO BE COMPLETED BY COLLECTOR OF SAMPLE | | | | TO BE COMPLETED BY LAB | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | ANALYSIS METHOD: | MF | MTF | MMO-MUG | PA |
| COLL. NO. | SAMPLE POINT (Specific Address) | CL RES'D | pH | SAMPLE NUMBER | NON COLIFORM | TOTAL | CONFIRM TOTAL | CONFIRM FECAL |
| 1 | Well | – | 7.4 | 052440 | | A | | |
| 2 | 1001 Woodsong Cir. | 0.6 | 7.4 | 052441 | | A | | |
| 3 | 1020 Woodsong Cir | 0.5 | 7.4 | 052442 | | A | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

* Results in this column are preliminary. Fecal coliform confirmation on community and noncommunity water systems and total coliform confirmation on all types of water systems will follow in 24-48 hours.

P - Coliforms are present C - Confluent growth TA - Turbid, Absence of gas or acid
A - Coliforms are absent TNTC - Too numerous to count

INTERPRETATIONS-REMARKS BY PROGRAM REVIEWER

HRS Form 868, Jan 81 (Obsolete previous editions which may not be used) (Stock Number 8760-000-0868-8)

NAME AND MAILING ADDRESS OF PERSON/FIRM TO RECEIVE REPORT

CDU Services
1000 Colorplace
Apopka FL 32703

( )
(X) SATISFACTORY
( ) INCOMPLETE COLLECTION INFORMATION
( ) REPEAT SAMPLES
( ) REPLACEMENT SAMPLES

REVIEWING OFFICIAL: _____

TITLE: DER

# Woodmere - 888

**Duval County (SSU)**

**Water**

**- 1992 FPSC Filing -**

# Woodmere

## Chemical Analyses

**The most recent chemical analyses for the water system conducted by a certified laboratory covering the inorganic, organic, turbidity, microbiological, radionuclide, secondary and unregulated contaminants.**

| Chemical Analysis | Date Taken |
|---|---|
| Inorganic | 9/90 |
| Organic | 6/91 |
| Volatile Organic Chemicals | 2/90 |
| | 7/90 |
| | 10/90 |
| | 2/91 |
| Turbidity | 9/90 |
| Microbiological | 12/91 |
| Radionuclide | 4/89 |
| Secondary Contaminants | 9/90 |
| Unregulated Contaminants | 9/90 |

TECHNICAL SERVICES, INC.
PUBLIC DRINKING WATER ANALYSIS REPORTING

PUBLIC WATER SYSTEM INFORMATION - Southern States Utilities (Customer's Name)
Public Water System I.D. Number: 2161278
Public Water System Name: Wacmere WTP
Public Water System Type (check one): (X) Community ( ) Non-Community ( ) Special Non-Community

PUBLIC CERTIFICATION INFORMATION:
Lab Certification Number: FDHRS #82145
Parameter Groups Analyzed: (X)Turbidity (X)Inorganic ( )Trihalomethane ( )Volatile Organic ( )Organic Chemical
( Secondary Chemical ( )Radiological (X)Unregulated Organic Purgeable
(X)Unregulated Organic Pesticide X)Unregulated Base Neutral Extractable
( )Unregulated Acid Extractable
Subcontracted Lab Certification Number (if any): ABC Lab, # 82135

SAMPLE INFORMATION:
Sample Date (MM/DD/YY): Ferbuary 12, 1990
Laboratory Sample Number(s): 92838
Sample Location (be specific): plant tap
Sample Type (check all applicable): ( )Check ( )Clearance ( )Raw (X)Regular Distribution ( )Well ( )Plant Tap
( )Maximum Residence Time ( )Composite ( )Resample
( )Special
Sampler's Name & Tile: Mike Akers, Operator
Sampler's Company: Southern States Utiltiies
Sampler's Phone Number: (904) 743-1888

ANALYSIS INFORMATION:
Extraction Date (MM/DD/YY):
Laboratory Contact: Technical Services, Inc.'s receptionist will refer the caller to appropriate, responsible individual to provide the information requested. (904) 353-5761.
Resample Request: ( )Yes (X)No
Analyses Submitted: ( )Turbidity ( )Inorganic ( )Trihalomethane ( )Volatile Organic ( )Organic Chemical
( Secondary Chemical ( )Radiological ( )Unregulated Organic Purgeable
( )Unregulated Organic Pesticide ( )Unregulated Base Neutral Extractable
( )Unregulated Acid Extractable

I DO HEREBY CERTIFY THAT ALL DATA SUBMITTED ARE CORRECT.

Walter Mork
Laboratory Director
TECHNICAL SERVICES, INC.

Date: March 20, 1990

Results mailed to appropriate DER and/or ACPHU Office by (check one): ( )Customer ( )Technical Services, Inc.

DER Reviewing Official

Sample Interpretation (check one)
( )Satisfactory ( )Unsatisfactory

ACPHU Reviewing Official

Sample Interpretation (Check one)
( )Satisfactory ( )Unsatisfactory

Southern States Utilities
Woodmere

TECHNICAL SERVICES, INC.
2471 Swan Street
Jacksonville, Florida 32204
(904) 353-5761

## TURBIDITY ANALYSIS
17-550.310(3)
(PWSO26)

| Parameter ID | NAME | Sample Number | Location Code | Analysis Result (NTU) | Analytical Method | Analysis Date |
|---|---|---|---|---|---|---|
| 0100 | Turbidity | 92838 | | 0.25 | EPA 180.1 | 02/12/90 |

Comments

## INORGANIC ANALYSIS
17-550.310(1)
(PWSO30)

| Parameter ID | NAME | Sample Number | Location Code | Analysis Result (mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1005 | Arsenic | Not Applicable | | | | | |
| 1010 | Barium | Not Applicable | | | | | |
| 1015 | Cadmium | Not Applicable | | | | | |
| 1020 | Chromium | Not Applicable | | | | | |
| 1025 | Fluoride | Not Applicable | | | | | |
| 1030 | Lead | Not Applicable | | | | | |
| 1035 | Mercury | Not Applicable | | | | | |
| 1040 | Nitrate (as N) | Not Applicable | | | | | |
| 1045 | Selenium | Not Applicable | | | | | |
| 1050 | Silver | Not Applicable | | | | | |
| 1052 | Sodium | Not Applicable | | | | | |

Comments:

Lab. Certification #82145
Lab./Sample No.: 92838
Date Reported: 03/22/90

Southern States Utilities
Woodmere

TECHNICAL SERVICES, INC.
2471 Swan Street
Jacksonville, Florida 32204
(904) 353-5761

SECONDARY CHEMICAL ANALYSIS
17-550.320
(PWS031)

| Parameter ID | NAME | Sample Number | Location Code | Analysis Result (mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1016* | Calcium | Not Applicable | | | | | |
| 1017 | Chloride | Not Applicable | | | | | |
| 1019* | Carbonate $CaCO_3$ | Not Applicable | | | | | |
| 1021* | Hydroxide $CaCO_3$ | Not Applicable | | | | | |
| 1022 | Copper | Not Applicable | | | | | |
| 1023* | Bicarbonate $CaCO_3$ | Not Applicable | | | | | |
| 1025 | Fluoride | Please enter as a primary on screen PWS030 | | | | | |
| 1026* | Bicarbonate $HCO_3$ | Not Applicable | | | | | |
| 1027* | Hydrogen Sulfide | Not Applicable | | | | | |
| 1028 | Iron | 92838 | | < 0.2 | EPA 236.1 | 0.03 | 02/20/90 |
| 1031* | Magnesium | Not Applicable | | | | | |
| 1032 | Manganese | Not Applicable | | | | | |
| 1055 | Sulfate | Not Applicable | | | | | |
| 1095 | Zinc | Not Applicable | | | | | |
| 1901 | Carbon Dioxide | Not Applicable | | | | | |
| 1905 | Color (Color Units) | Not Applicable | | | | | |
| 1915* | Total Hardness | Not Applicable | | | | | |
| 1917* | NCH as $CaCO_3$ | Not Applicable | | | | | |

*OPTIONAL - NOT REQUIRED BY RULE

Lab. Certification #82145
Lab./Sample No.: 92839
Date Reported: 03/22/90

Southern States Utilities
Woodmere

TECHNICAL SERVICES, INC.
2471 Swan Street
Jacksonville, Florida 32204

ORGANIC CHEMICAL ANALYSIS
17-550.310(2)(a)(b)
(PWSO29)

| Parameter ID | NAME | Sample Number | Location Code | Analysis Result (mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2005 | Endrin | Not Applicable | | | | | |
| 2010 | Lindane | Not Applicable | | | | | |
| 2015 | Methoxychlor | Not Applicable | | | | | |
| 2020 | Toxaphene | Not Applicable | | | | | |
| 2105 | 2,4-D | 92838 | | < 0.001 | EPA 515 | 0.001 | 02/24/90 |
| 2110 | 2,4,5-TP (Silvex) | 92838 | | < 0.001 | EPA 515 | 0.001 | 02/24/90 |

Comments:

Lab. Certification #82145
Lab./Sample No.: 92838
Date Reported: 03/22/90

Southern States Utilities
Woodmere

TECHNICAL SERVICES, INC.
2471 Swan Street
Jacksonville, Florida 32204

UNREGULATED BASE NEUTRAL EXTRACTABLE ANALYSIS
17-550.410(3)
(PWS036)

| Parameter ID | NAME | Sample Number | Location Code | Analysis Result (mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2042 | Hexachlorocyclo-pentadiene | 92838 | | BDL | 625 | 0.010 | 02/28/90 |
| 2063 | Dioxin | 92838 | | BDL | 625 | 0.010 | 02/28/90 |
| 2262 | Isophorone | 92838 | | BDL | 625 | 0.010 | 02/28/90 |
| 2270 | 2,4-dinitrotoluene | 92838 | | BDL | 625 | 0.010 | 02/28/90 |
| 2282 | Dimethylphthalate | 92838 | | BDL | 625 | 0.010 | 02/28/90 |
| 2284 | Diethylphthalate | 92838 | | BDL | 625 | 0.010 | 02/28/90 |
| 2290 | Di-n-butylphthalate | 92838 | | BDL | 625 | 0.010 | 02/28/90 |
| 2294 | Butyl benzyl phthalate | 92838 | | BDL | 625 | 0.010 | 02/28/90 |
| 2298 | Bis(2-ethylhexyl)-phthalate | 92838 | | BDL | 625 | 0.010 | 02/28/90 |
| 2378 | 1,2,4-trichlorobenzene | 92838 | | BDL | 625 | 0.010 | 02/28/90 |
| 2388 | PCB-1016 | 92838 | | BDL | 625 | 0.050 | 02/28/90 |
| 2390 | PCB-1221 | 92838 | | BDL | 625 | 0.050 | 02/28/90 |
| 2392 | PCB-1232 | 92838 | | BDL | 625 | 0.050 | 02/28/90 |
| 2394 | PCB-1242 | 92838 | | BDL | 625 | 0.050 | 02/28/90 |
| 2396 | PCB-1248 | 92838 | | BDL | 625 | 0.050 | 02/28/90 |
| 2398 | PCB-1254 | 92838 | | BDL | 625 | 0.050 | 02/28/90 |
| 2400 | PCB-1260 | 92838 | | BDL | 625 | 0.050 | 02/28/90 |
| 9089 | Dioctylphthalate | 92838 | | BDL | 625 | 0.010 | 02/28/90 |

Lab. Certification #82145
Lab./Sample No.: 92838
Date Reported: 03/22/90

Southern States Utilities
Woodmere

TECHNICAL SERVICES, INC.
2471 Swan Street
Jacksonville, Florida 32204

UNREGULATED ACID EXTRACTABLE ANALYSIS
17-550.410(4)
(PWS037)

| Parameter ID | NAME | Sample Number | Location Code | Analysis Result (mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 9108 | 2-chlorophenol | 92838 | | BDL | 625 | 0.010 | 02/28/90 |
| 9112 | 2-methyl-4,6-dinito-phenol | 92838 | | BDL | 625 | 0.050 | 02/28/90 |
| 9115 | Phenol | 92838 | | BDL | 625 | 0.010 | 02/28/90 |
| 9116 | 2,4,6-trichloro-phenol | 92838 | | BDL | 625 | 0.030 | 02/28/90 |

Comments: BDL = Below Detection Limit

Laboratory Certification #82145
Lab./Sample No.: 92838
Date Reported: 03/22/90

Southern States Utilities
Woodmere

TECHNICAL SERVICES, INC.
2471 Swan Street
Jacksonville, Florida 32204
(904) 353-5761

UNREGULATED ORGANIC PURGEABLE ANALYSIS
17-550.410(1)
(PWS034)

| Parameter ID | NAME | Sample Number | Analysis Result (mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|
| 2210 | Chloromethane | 92838 | BDL | 502.1 | 0.001 | 02/19/90 |
| 2212 | Dichlorodifluoro-methane | 92838 | BDL | 502.1 | 0.001 | 02/19/90 |
| 2214 | Bromomethane | 92838 | BDL | 502.1 | 0.001 | 02/19/90 |
| 2216 | Chloroethane | 92838 | BDL | 502.1 | 0.001 | 02/19/90 |
| 2218 | Trichlorofluoromethane | 92838 | BDL | 502.1 | 0.001 | 02/19/90 |
| 2224 | trans-1,3-dichloro-propene | 92838 | BDL | 502.1 | 0.001 | 02/19/90 |
| 2228 | cis-1,3-dichloro-propene | 92838 | BDL | 502.1 | 0.001 | 02/19/90 |
| 2251 | Methyl-tert-butyl-ether | 92838 | BDL | 502.1 | 0.001 | 02/19/90 |
| 2380 | cis-1,2-dichloroethene | 92838 | BDL | 502.1 | 0.001 | 02/19/90 |
| 2408 | Dibromomethane | 92838 | BDL | 502.1 | 0.001 | 02/19/90 |
| 2410 | 1,1-dichloropropene | 92838 | BDL | 502.1 | 0.001 | 02/19/90 |
| 2412 | 1,3-dichloropropane | 92838 | BDL | 502.1 | 0.001 | 02/19/90 |
| 2414 | 1,2,3-trichloropropane | 92838 | BDL | 502.1 | 0.001 | 02/19/90 |
| 2416 | 2,2-dichloropropane | 92838 | BDL | 502.1 | 0.001 | 02/19/90 |
| 2931 | 1,2-dibromo-3-chloro-propane | 92838 | BDL | 502.1 | 0.001 | 02/19/90 |
| 2941 | Chloroform | 92838 | BDL | 502.1 | 0.001 | 02/19/90 |
| 2942 | Bromoform | 92838 | BDL | 502.1 | 0.001 | 02/19/90 |
| 2943 | Bromodichloromethane | 92838 | BDL | 502.1 | 0.001 | 02/19/90 |
| 2944 | Dibromochloromethane | 92838 | BDL | 502.1 | 0.001 | 02/19/90 |

Lab. Certification #82145
Lab./Sample No.: 92938
Report Date: 03/22/90

Southern states Utilities
Woodmere

TECHNICAL SERVICES, INC.
2471 Swan Street
Jacksonville, Florida 32204
(904) 353-5761

## TRIHALOMETHANE ANALYSIS
17-550.310(2)(c)
(PWSO27)

| Parameter ID NAME | Sample Number | Location Code | Analysis Result (mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|
| Potential THM | Not Applicable | | | | | |
| 2950 TTHM | Not Applicable | | | | | |

Comments:

## VOLATILE ORGANIC ANALYSIS
17-550.310(2)(d)
(PWSO28)

| Parameter ID NAME | Sample Number | Location Code | Analysis Result (mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|
| 2946 Ethylene dibromide | 92838 | | BDL | 504 | 0.00001 | 02/16/90 |
| 2969 Para--dichlorobenzene | 92838 | | BDL | 502.1 | 0.001 | 02/16/90 |
| 2976 Vinyl chloride | 92838 | | BDL | 502.1 | 0.001 | 02/16/90 |
| 2977 1,1-dichloroethene | 92838 | | BDL | 502.1 | 0.001 | 02/16/90 |
| 2980 1,2-dichloroethane | 92838 | | BDL | 502.1 | 0.001 | 02/16/90 |
| 2981 1,1,1-trichloroethane | 92838 | | BDL | 502.1 | 0.001 | 02/16/90 |
| 2982 Carbon tetrachloride | 92838 | | BDL | 502.1 | 0.001 | 02/19/90 |
| 2984 Trichloroethene | 92838 | | BDL | 502.1 | 0.001 | 02/19/90 |
| 2987 Tetrachloroethene | 92838 | | BDL | 502.1 | 0.001 | 02/19/90 |
| 2990 Benzene | 92838 | | BDL | 502.1 | 0.001 | 02/19/90 |

Comments: BDL = Below Detection Limit

Lab. Certification #82145
Lab./Sample No.: 92838
Date Reported: 03/22/90

TECHNICAL SERVICES, INC.
PUBLIC DRINKING WATER ANALYSIS REPORTING

PUBLIC WATER SYSTEM INFORMATION - SOUTHERN STATES UTILITIES (Customer's Name)
Public Water System I.D. Number: 2161278
Public Water System Name: Woodmere Water Treatment Plant
Public Water System Type (check one): (X) Community ( ) Non-Community ( ) Special Non-Community

PUBLIC CERTIFICATION INFORMATION:
Lab Certification Number: FDHRS #82145
Parameter Groups Analyzed: ( )Turbidity ( )Inorganic ( )Trihalomethane ( )Volatile Organic ( )Organic Chemical
( Secondary Chemical ( )Radiological ( )Unregulated Organic Purgeable
( )Unregulated Organic Pesticide )Unregulated Base Neutral Extractable
( )Unregulated Acid Extractable
Subcontracted Lab Certification Number (if any): FDHRS #82135, ABC Research

SAMPLE INFORMATION:
Sample Date (MM/DD/YY): February 12, 1990
Laboratory Sample Number(s): 92838 - SUPPLEMENTAL REPORT
Sample Location (be specific): Woodmere Water Treatment Plant
Sample Type (check all applicable): ( )Check ( )Clearance ( )Raw ( )Regular Distribution ( )Well (X)Plant Tap
( )Maximum Residence Time ( )Composite ( )Resample
( )Special
Sampler's Name & Tile: Mike Akers - Operator
Sampler's Company: Southern States Utilities
Sampler's Phone Number: (904) 743-1888

ANALYSIS INFORMATION:
Extraction Date (MM/DD/YY): EPA 515 - 02-22-90, EPA 505 - 02/19/90
Laboratory Contact: Technical Services, Inc.'s receptionist will refer the caller to appropriate, responsible individual to provide the information requested. (904) 353-5761.
Resample Request: ( )Yes (X)No
Analyses Submitted: ( )Turbidity ( )Inorganic ( )Trihalomethane ( )Volatile Organic ( )Organic Chemical
( Secondary Chemical ( )Radiological ( )Unregulated Organic Purgeable
( )Unregulated Organic Pesticide ( )Unregulated Base Neutral Extractable
( )Unregulated Acid Extractable

I DO HEREBY CERTIFY THAT ALL DATA SUBMITTED ARE CORRECT.

Walter Mack

aboratory Director
ECHNICAL SERVICES, INC.

ate: May 11, 1990

esults mailed to appropriate DER and/or ACPHU Office by (check one): (X)Customer ( )Technical Services, Inc.

ER Reviewing Official

ample Interpretation (check one)
)Satisfactory ( )Unsatisfactory

ACPHU Reviewing Official

Sample Interpretation (Check one)
( )Satisfactory ( )Unsatisfactory

SOUTHERN STATES UTILITIES
LABORATORY NUMBER 92838
WOODMERE

TECHNICAL SERVICES, INC.
2471 Swan Street
Jacksonville, Florida 32204
(904) 353-5761

SUPPLEMENTAL REPORT

UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PWSO35)

| Parameter ID | NAME | Sample Number | Location Code | Analysis Result (mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2031 | Dalapon | 92838 | | BDL | 515 | 0.050 | 02-24-90 |
| 2036 | Oxamyl (Vydate) | 92838 | | BDL | 531 | 0.020 | 03-05-90 |
| 2037 | Simazine | 92838 | | BDL | 505 | 0.010 | 02-21-90 |
| 2040 | Picloram | 92838 | | BDL | 515 | 0.050 | 02-24-90 |
| 2041 | Dinoseb | 92838 | | BDL | 515 | 0.050 | 02-24-90 |
| 2043 | Aldicarb sulfoxide | 92838 | | BDL | 531 | 0.020 | 03-05-90 |
| 2044 | Aldicarb sulfone | 92838 | | BDL | 531 | 0.020 | 03-05-90 |
| 2045 | Metolachlor | 92838 | | BDL | 505 | 0.001 | 02-21-90 |
| 2046 | Carbofuran | 92838 | | BDL | 531 | 0.020 | 03-05-90 |
| 2047 | Aldicarb | 92838 | | BDL | 531 | 0.020 | 03-05-90 |
| 2050 | Atrazine | 92838 | | BDL | 505 | 0.010 | 02-21-90 |
| 2051 | Alachlor (Lasso) | 92838 | | BDL | 505 | 0.001 | 02-21-90 |
| 2065 | Heptachlor | 92838 | | BDL | 505 | 0.0001 | 02-21-90 |
| 2356 | Aldrin | 92838 | | BDL | 505 | 0.0001 | 02-21-90 |
| 2364 | Dieldrin | 92838 | | BDL | 505 | 0.0001 | 02-21-90 |
| 2440 | Dicamba | 92838 | | BDL | 515 | 0.050 | 02-24-90 |
| 2959 | Chlordane | 92838 | | BDL | 505 | 0.001 | 02-21-90 |
| 2326 | Pentachlorophenol | 92838 | | BDL | 515 | 0.050 | 02-24-90 |

Comments: BDL - Below Detection Limit

Lab. Certification #82145
Lab./Sample No.: 92838
Date Reported: May 11, 1990

SOUTHERN STATES UTILITIES
LABORATORY NUMBER 92838
WOODMERE

TECHNICAL SERVICES, INC.
2471 Swan Street
Jacksonville, Florida 32204
(904) 353-5761

## UNREGULATED ORGANIC PURGEABLE ANALYSIS

SUPPLEMENTAL REPORT

17-550.410(1)
(PWS034)

| Parameter ID | NAME | Sample Number | Location Code | Analysis Result (mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2962 | p-xylene | 92838 | | BDL | 502.1 | 0.001 | 02-19-90 |
| 2964 | Methylene chloride | 92838 | | BDL | 502.1 | 0.001 | 02-19-90 |
| 2965 | o-chlorotoluene | 92838 | | BDL | 502.1 | 0.001 | 02-19-90 |
| 2966 | p-chlorotoluene | 92838 | | BDL | 502.1 | 0.001 | 02-19-90 |
| 2967 | m-dichlorobenzene | 92838 | | BDL | 502.1 | 0.001 | 02-19-90 |
| 2968 | o-dichlorobenzene | 92838 | | BDL | 502.1 | 0.001 | 02-19-90 |
| 2978 | 1,1-dichloroethane | 92838 | | BDL | 502.1 | 0.001 | 02-19-90 |
| 2979 | trans-1,2-dichloro-ethylene | 92838 | | BDL | 502.1 | 0.001 | 02-19-90 |
| 2983 | 1,2-dichloropropane | 92838 | | BDL | 502.1 | 0.001 | 02-19-90 |
| 2985 | 1,1,2-trichloroethane | 92838 | | BDL | 502.1 | 0.001 | 02-19-90 |
| 2986 | 1,1,1,2-tetrachloro-ethane | 92838 | | BDL | 502.1 | 0.001 | 02-19-90 |
| 2988 | 1,1,2,2-tetrachloro-ethane | 92838 | | BDL | 502.1 | 0.001 | 02-19-90 |
| 2989 | Chlorobenzene | 92838 | | BDL | 502.1 | 0.001 | 02-19-90 |
| 2991 | Toluene | 92838 | | BDL | 502.1 | 0.001 | 02-19-90 |
| 2992 | Ethylbenzene | 92838 | | BDL | 502.1 | 0.001 | 02-19-90 |
| 2993 | Bromobenzene | 92838 | | BDL | 502.1 | 0.001 | 02-19-90 |
| 2995 | m-xylene | 92838 | | BDL | 502.1 | 0.001 | 02-19-90 |
| 2996 | Styrene | 92838 | | BDL | 502.1 | 0.001 | 02-19-90 |
| 2997 | o-xylene | 92838 | | BDL | 502.1 | 0.001 | 02-19-90 |

Lab. Certification #82145
Lab./Sample No.: 92838
Date Reported: May 11, 1990

TECHNICAL SERVICES, INC.
PUBLIC DRINKING WATER ANALYSIS REPORTING

PUBLIC WATER SYSTEM INFORMATION - SSU SERVICES (Customer's Name)
Public Water System I.D. Number: 2161278
Public Water System Name: Woodmere Water Treatment Plant
Public Water System Type (check one): (XX) Community ( ) Non-Community ( ) Special Non-Community

PUBLIC CERTIFICATION INFORMATION:
Lab Certification Number: FDHRS #82145
Parameter Groups Analyzed: (XX)Turbidity (XX)Inorganic ( )Trihalomethane ( )Volatile Organic ( )Organic Chemical
(XX)Secondary Chemical ( )Radiological ( )Unregulated Organic Purgeable
( )Unregulated Organic Pesticide )Unregulated Base Neutral Extractable
( )Unregulated Acid Extractable
Subcontracted Lab Certification Number (if any): Not Applicable

SAMPLE INFORMATION:
Sample Date (MM/DD/YY): September 25, 1990
Laboratory Sample Number(s): 96023-1
Sample Location (be specific): Finished Water
Sample Type (check all applicable): (X)Check ( )Clearance ( )Raw (XX)Regular Distribution ( )Well (XX)Plant Tap
( )Maximum Residence Time ( )Composite ( )Resample
( )Special
Sampler's Name & Tile: Steven W. Lipham, Sampling Technician
Sampler's Company: Technical Services, Inc.
Sampler's Phone Number: (904) 353-5761

ANALYSIS INFORMATION:
Extraction Date (MM/DD/YY):
Laboratory Contact: Technical Services, Inc.'s receptionist will refer the caller to appropriate, responsible individual to provide the information requested. (904) 353-5761.
Resample Request: ( )Yes (XX)No
Analyses Submitted: (XX)Turbidity (XX)Inorganic ( )Trihalomethane ( )Volatile Organic ( )Organic Chemical
(XX)Secondary Chemical ( )Radiological ( )Unregulated Organic Purgeable
( )Unregulated Organic Pesticide ( )Unregulated Base Neutral Extractable
( )Unregulated Acid Extractable

I DO HEREBY CERTIFY THAT ALL DATA SUBMITTED ARE CORRECT.

Laboratory Director
TECHNICAL SERVICES, INC.

Date: October 16, 1990

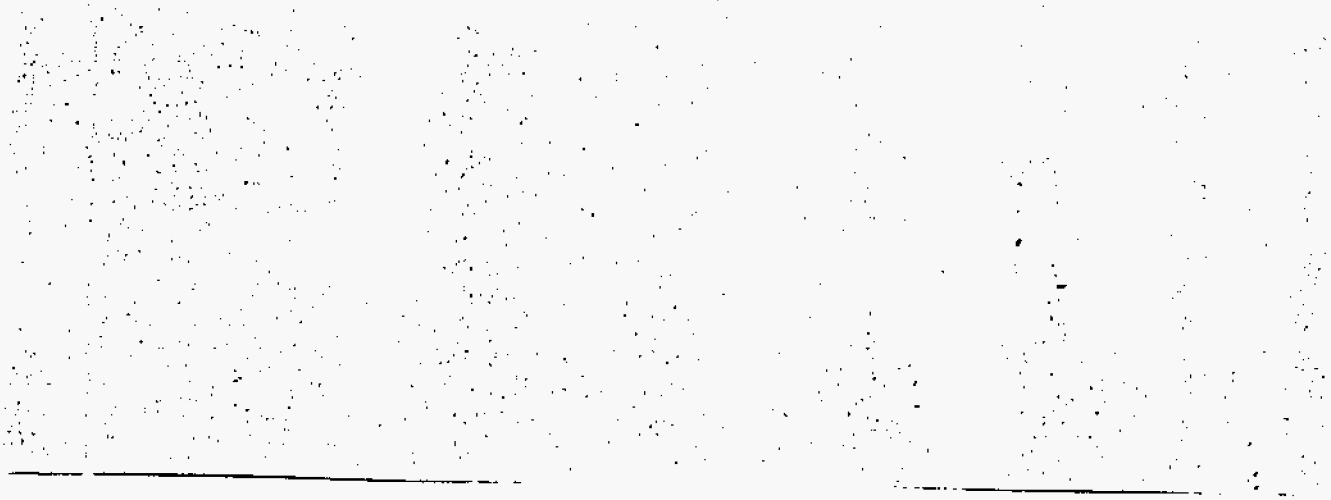
Results mailed to appropriate DER and/or ACPHU Office by (check one): (XX)Customer ( )Technical Services, Inc.

DER Reviewing Official

Sample Interpretation (check one)
( )Satisfactory ( )Unsatisfactory

ACPHU Reviewing Official

Sample Interpretation (Check one)
( )Satisfactory ( )Unsatisfactory



SSU SERVICES
LABORATORY NUMBER 96023-1
WOODMERE WATER TREATMENT PLANT
FINISHED WATER

TECHNICAL SERVICES, INC.
2471 Swan Street
Jacksonville, Florida 32204
(904) 353-5761

TURBIDITY ANALYSIS
17-550.310(3)
(PWS026)

| Parameter ID | NAME | Sample Number | Location Code | Analysis Result (NTU) | Analytical Method | Analysis Date |
|---|---|---|---|---|---|---|
| 0100 | Turbidity | 96023-1 | | 0.30 | EPA180.1 | 09-25-90 |

Comments

INORGANIC ANALYSIS
17-550.310(1)
(PWS030)

| Parameter ID | NAME | Sample Number | Location Code | Analysis Result (mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1005 | Arsenic | 96023-1 | | <0.005 | EPA206.3 | 0.005 | 10-02-90 |
| 1010 | Barium | 96023-1 | | <0.5 | EPA208.1 | 0.5 | 10-11-90 |
| 1015 | Cadmium | 96023-1 | | <0.001 | EPA213.2 | 0.001 | 10-01-90 |
| 1020 | Chromium | 96023-1 | | <0.01 | EPA218.2 | 0.01 | 10-02-90 |

SSU SERVICES
LABORATORY NUMBER 96023 -1
WOODMERE WATER TREATMENT PLANT
FINISHED WATER

TECHNICAL SERVICES, INC.
2471 Swan Street
Jacksonville, Florida 32204
(904) 353-5761

SECONDARY CHEMICAL ANALYSIS
17-550.320
(PWS031)

| Parameter ID NAME | Sample Number | Location Code | Analysis Result (mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|
| 1016*Calcium | 96023-1 | | 72.3 | EPA215.1 | 0.20 | 09-28-90 |
| 1017 Chloride | 96023-1 | | 19.7 | SM 407A | 0.25 | 10-01-90 |
| 1019*Carbonate $CaCO_3$ | Not Applicable | | | | | |
| 1021*Hydroxide $CaCO_3$ | Not Applicable | | | | | |
| 1022 Copper | 96023-1 | | <0.03 | EPA220.1 | 0.03 | 10-01-90 |
| 1023*Bicarbonate $CaCO_3$ | Not Applicable | | | | | |
| 1025 Fluoride | Please enter as a primary on screen PWS030 | | | | | |
| 1026*Bicarbonate $HCO_3$ | Not Applicable | | | | | |
| 1027*Hydrogen Sulfide | Not Applicable | | | | | |
| 1028 Iron | 96023-1 | | 0.044 | EPA236.1 | 0.03 | 10-04-90 |
| 1031*Magnesium | Not Applicable | | | | | |
| 1032 Manganese | 96023-1 | | <0.025 | EPA243.1 | 0.025 | 10-06-90 |
| 1055 Sulfate | 96023-1 | | 110 | EPA375.4 | 1.0 | 10-02-90 |
| 1095 Zinc | 96023-1 | | <0.013 | EPA289.1 | 0.013 | [illegible] |
| 1901 Carbon Dioxide | 96023-1 | | 9.5 | SM 406A | 0.1 | [illegible] |
| 1905 Color (Color Units) | 96023-1 | | 5 | SM 204A | 5 | 09-25-90 |
| 1915*Total Hardness | Not Applicable | | | | | |
| 1917*NCH as $CaCO_3$ | Not Applicable | | | | | |

*OPTIONAL - NOT REQUIRED BY RULE

Lab. Certification #82145
Lab./Sample No.: 96023 -1
Date Reported: October 16, 1990

TECHNICAL SERVICES, INC.
2471 Swan Street
Jacksonville, Florida 32204
(904) 353-5761

SSU SERVICES
LABORATORY NUMBER 96023-1
WOODMERE WATER TREATMENT PLANT
FINISHED WATER

SECONDARY CHEMICAL ANALYSIS
17-550.320
(PWS031)

| Parameter ID | NAME | Sample Number | Location Code | Analysis Result (mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1920 | Odor (Total Odor Number) | 96023-1 | | No Odor Observed | SM 207 | 1.0 | 09-25-90 |
| 1924 | Field pH (Units) | 96023-1 | | 7.45 | EPA150.1 | 0.1 | 09-25-90 |
| 1925* | Lab pH (Units) | 96023-1 | | 7.66 | EPA150.1 | 0.1 | 09-26-90 |
| 1926 | Field Conductivity umhos/cm | 96023-1 | | 510 | EPA120.1 | 2 | 09-25-90 |
| 1927* | Total Alkalinity | 96023-1 | | 142 | SM 403 | 0.2 | 09-26-90 |
| 1930 | TDS | 96023-1 | | 351 | EPA160.1 | 1 | 09-25-90 |
| 1931 | Phenolphtalien Alk. | 96023-1 | | 0 | SM 403 | 0.5 | 09-26-90 |
| 1996 | Field Temp. (°C) | 96023-1 | | 24.4 | EPA170.1 | 1 | 09-25-90 |
| 1997 | Langelier Index pHs | 96023-1 | | 7.38 | SM 203 | 0.05 | 10-10-90 |
| 1998* | Saturation Index | 96023-1 | | +0.07 | SM 203 | 0.05 | 10-10-90 |
| 1999* | Stability Index | Not Applicable | | | | | |
| 2909 | Foaming Agents | 96023-1 | | <0.025 | EPA425.1 | 0.025 | 10-11-90 |
| 9996 | Field DO | 96023-1 | | 5.2 | SM 421F | 0.1 | 09-25-90 |
| 9997* | Field Chlorine | Not Applicable | | | | | |

Comments:

*OPTIONAL - NOT REQUIRED BY RULE

Lab. Certification #82145
Lab./Sample No.: 96023-1
Date Reported: October 16, 1990

SSU SERVICES
LABORATORY NUMBER 95014
WOODMERE

TECHNICAL SERVICES, INC.
2471 Swan Street
Jacksonville, Florida 32204
(904) 353-5761

TRIHALOMETHANE ANALYSIS
17-550.310(2)(c)
(PWSO27)

| Parameter ID | NAME | Sample Number | Location Code | Analysis Result (mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| Potential THM | | Not Applicable | | | | | |
| 2950 | TTHM | Not Applicable | | | | | |

Comments:

VOLATILE ORGANIC ANALYSIS
17-550.310(2)(d)
(PWSO28)

| Parameter ID | NAME | Sample Number | Location Code | Analysis Result (mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 95014 | | BDL* | EPA 504 | 0.00001 | 07-24-90 |
| 2969 | Para--dichlorobenzene | 95014 | | BDL | EPA 502.1 | 0.001 | 07-19-90 |
| 2976 | Vinyl chloride | 95014 | | BDL | EPA 502.1 | 0.001 | |
| 2977 | 1,1-dichloroethene | 95014 | | BDL | EPA 502.1 | 0.001 | 07-19-90 |
| 2980 | 1,2-dichloroethane | 95014 | | BDL | EPA 502.1 | 0.001 | 07-19-90 |
| 2981 | 1,1,1-trichloroethane | 95014 | | BDL | EPA 502.1 | 0.001 | 07-19-90 |
| 2982 | Carbon tetrachloride | 95014 | | BDL | EPA 502.1 | 0.001 | 07-19-90 |
| 2984 | Trichloroethene | 95014 | | BDL | EPA 502.1 | 0.001 | 07-19-90 |
| 2987 | Tetrachloroethene | 95014 | | BDL | EPA 502.1 | 0.001 | 07-19-90 |
| 2990 | Benzene | 95014 | | BDL | EPA 502.1 | 0.001 | 07-19-90 |

Comments: BDL - Below Detection Limit

Lab. Certification #82145
Lab./Sample No.: 95014
Date Reported: August 7, 1990

TECHNICAL SERVICES, INC.
PUBLIC DRINKING WATER ANALYSIS REPORTING

UBLIC WATER SYSTEM INFORMATION - SSU SERVICES (Customer's Name)
ublic Water System I.D. Number: 2161278
ublic Water System Name: WOODMERE WATER TREATMENT PLANT
ublic Water System Type (check one): (X) Community ( ) Non-Community ( ) Special Non-Community

UBLIC CERTIFICATION INFORMATION:
ab Certification Number: FDHRS #82145
arameter Groups Analyzed: ( )Turbidity ( )Inorganic ( )Trihalomethane (X)Volatile Organic ( )Organic Chemical
( Secondary Chemical ( )Radiological ( )Unregulated Organic Purgeable
( )Unregulated Organic Pesticide )Unregulated Base Neutral Extractable
( )Unregulated Acid Extractable
ubcontracted Lab Certification Number (if any): Not Applicable

MPLE INFORMATION:
ample Date (MM/DD/YY): September 25, 1990
aboratory Sample Number(s): 96023-2
ample Location (be specific): WELL #1 and WELL #2
ample Type (check all applicable): (X)Check ( )Clearance (X)Raw (X)Regular Distribution (X)Well (X)Plant Tap
( )Maximum Residence Time (X)Composite ( )Resample
( )Special
ampler's Name & Tile: Steven W. Lipham, Sampling Technician
ampler's Company: Technical Services, Inc.
ampler's Phone Number: (904) 353-5761

NALYSIS INFORMATION:
xtraction Date (MM/DD/YY): EDB and DBCP - 10/01/90
aboratory Contact: Technical Services, Inc.'s receptionist will refer the caller to appropriate, responsible individual to provide the information requested. (904) 353-5761.
esample Request: ( )Yes (X)No
nalyses Submitted: ( )Turbidity ( )Inorganic ( )Trihalomethane (X)Volatile Organic ( )Organic Chemical
( Secondary Chemical ( )Radiological ( )Unregulated Organic Purgeable
( )Unregulated Organic Pesticide ( )Unregulated Base Neutral Extractable
( )Unregulated Acid Extractable

O HEREBY CERTIFY THAT ALL DATA SUBMITTED ARE CORRECT.

Walter Mack
oratory Director
CHNICAL SERVICES, INC.

te: October 22, 1990

sults mailed to appropriate DER and/or ACPHU Office by (check one): (X)Customer ( )Technical Services, Inc.

R Reviewing Official

mple Interpretation (check one)
)Satisfactory ( )Unsatisfactory

ACPHU Reviewing Official

Sample Interpretation (Check one)
( )Satisfactory ( )Unsatisfactory

SSU SERVICES
LABORATORY NUMBER 96023-2
WOODMERE WATER TREATMENT PLANT
WELL #1 and WELL #2, RAW

TECHNICAL SERVICES, INC.
2471 Swan Street
Jacksonville, Florida 32204
(904) 353-5761

## TRIHALOMETHANE ANALYSIS
17-550.310(2)(c)
(PWSO27)

| Parameter ID | NAME | Sample Number | Location Code | Analysis Result (mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| Potential THM | | Not Applicable | | | | | |
| 2950 | TTHM | Not Applicable | | | | | |

Comments:

## VOLATILE ORGANIC ANALYSIS
17-550.310(2)(d)
(PWSO28)

| Parameter ID | NAME | Sample Number | Location Code | Analysis Result (mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 96023-2 | | BDL | 504 | 0.00001 | 10-01-90 |
| 2969 | Para--dichlorobenzene | 96023-2 | | BDL | 502.2 | 0.001 | 09-26-90 |
| 2976 | Vinyl chloride | 96023-2 | | BDL | 502.2 | 0.001 | 09-26-90 |
| 2977 | 1,1-dichloroethene | 96023-2 | | BDL | 502.2 | 0.001 | 09-26-90 |
| 2980 | 1,2-dichloroethane | 96023-2 | | BDL | 502.2 | 0.001 | 09-26-90 |
| 2981 | 1,1,1-trichloroethane | 96023-2 | | BDL | 502.2 | 0.001 | 09-26-90 |
| 2982 | Carbon tetrachloride | 96023-2 | | BDL | 502.2 | 0.001 | 09-26-90 |
| 2984 | Trichloroethene | 96023-2 | | BDL | 502.2 | 0.001 | 09-26-90 |
| 2987 | Tetrachloroethene | 96023-2 | | BDL | 502.2 | 0.001 | 09-26-90 |
| 2990 | Benzene | 96023-2 | | BDL | 502.2 | 0.001 | 09-26-90 |

Comments: BDL - Below Detection Limit

Lab. Certification #82145
Lab./Sample No.: 96023-2
Date Reported: October 16, 1990

SSU SERVICES
LABORATORY NUMBER 96023 -2
WOODMERE WATER TREATMENT PLANT
WELL #1 and WELL #2, RAW

TECHNICAL SERVICES, INC.
2471 Swan Street
Jacksonville, Florida 32204
(904) 353-5761

## UNREGULATED ORGANIC PURGEABLE ANALYSIS
17-550.410(1)
(PWS034)

| Parameter ID | NAME | Sample Number | Location Code | Analysis Result (mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2210 | Chloromethane | 96023-2 | | BDL | 502.2 | 0.001 | 09-26-90 |
| 2212 | Dichlorodifluoro-methane | 96023-2 | | BDL | 502.2 | 0.001 | 09-26-90 |
| 2214 | Bromomethane | 96023-2 | | BDL | 502.2 | 0.001 | 09-26-90 |
| 2216 | Chloroethane | 96023-2 | | BDL | 502.2 | 0.001 | 09-26-90 |
| 2218 | Trichlorofluoromethane | 96023-2 | | BDL | 502.2 | 0.001 | 09-26-90 |
| 2224 | trans-1,3-dichloro-propene | 96023-2 | | BDL | 502.2 | 0.001 | 09-26-90 |
| 2228 | cis-1,3-dichloro-propene | 96023-2 | | BDL | 502.2 | 0.001 | 09-26-90 |
| 2251 | Methyl-tert-butyl-ether | 96023-2 | | BDL | 502.2 | 0.001 | 09-26-90 |
| 2380 | cis-1,2-dichloroethene | 96023-2 | | BDL | 502.2 | 0.001 | 09-26-90 |
| 2408 | Dibromomethane | 96023-2 | | BDL | 502.2 | 0.001 | 09-26-90 |
| 2410 | 1,1-dichloropropene | 96023-2 | | BDL | 502.2 | 0.001 | 09-26-90 |
| 2412 | 1,3-dichloropropane | 96023-2 | | BDL | 502.2 | 0.001 | 09-26-90 |
| 2414 | 1,2,3-trichloropropane | 96023-2 | | BDL | 502.2 | 0.001 | 09-26-90 |
| 2416 | 2,2-dichloropropane | 96023-2 | | BDL | 502.2 | 0.001 | 09-26-90 |
| 2931 | 1,2-dibromo-3-chloro-propane | 96023-2 | | BDL | 502.2 | 0.001 | 09-26-90 |
| 2941 | Chloroform | 96023-2 | | BDL | 502.2 | 0.001 | 09-26-90 |
| 2942 | Bromoform | 96023-2 | | BDL | 502.2 | 0.001 | 09-26-90 |
| 2943 | Bromodichloromethane | 96023-2 | | BDL | 502.2 | 0.001 | 09-26-90 |
| 2944 | Dibromochloromethane | 96023-2 | | BDL | 502.2 | 0.001 | 09-26-90 |

Lab. Certification #82145
Lab./Sample No.: 96023-2
Report Date: October 16, 1990

SSU SERVICES
LABORATORY NUMBER 96023-2
WOODMERE WATER TREATMENT PLANT
WELL #1 and WELL #2, RAW

TECHNICAL SERVICES, INC.
2471 Swan Street
Jacksonville, Florida 32204
(904) 353-5761

## UNREGULATED ORGANIC PURGEABLE ANALYSIS

17-550.410(1)
(PWS034)

| Parameter ID | NAME | Sample Number | Location Code | Analysis Result (mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2962 | p-xylene | 96023-2 | | BDL | 502.2 | 0.001 | 09-26-90 |
| 2964 | Methylene chloride | 96023-2 | | BDL | 502.2 | 0.001 | 09-26-90 |
| 2965 | o-chlorotoluene | 96023-2 | | BDL | 502.2 | 0.001 | 09-26-90 |
| 2966 | p-chlorotoluene | 96023-2 | | BDL | 502.2 | 0.001 | 09-26-90 |
| 2967 | m-dichlorobenzene | 96023-2 | | BDL | 502.2 | 0.001 | 09-26-90 |
| 2968 | o-dichlorobenzene | 96023-2 | | BDL | 502.2 | 0.001 | 09-26-90 |
| 2978 | 1,1-dichloroethane | 96023-2 | | BDL | 502.2 | 0.001 | 09-26-90 |
| 2979 | trans-1,2-dichloro-ethylene | 96023-2 | | BDL | 502.2 | 0.001 | 09-26-90 |
| 2983 | 1,2-dichloropropane | 96023-2 | | BDL | 502.2 | 0.001 | 09-26-90 |
| 2985 | 1,1,2-trichloroethane | 96023-2 | | BDL | 502.2 | 0.001 | 09-26-90 |
| 2986 | 1,1,1,2-tetrachloro-ethane | 96023-2 | | BDL | 502.2 | 0.001 | 09-26-90 |
| 2988 | 1,1,2,2-tetrachloro-ethane | 96023-2 | | BDL | 502.2 | 0.001 | 09-26-90 |
| 2989 | Chlorobenzene | 96023-2 | | BDL | 502.2 | 0.001 | 09-26-90 |
| 2991 | Toluene | 96023-2 | | BDL | 502.2 | 0.001 | 09-26-90 |
| 2992 | Ethylbenzene | 96023-2 | | BDL | 502.2 | 0.001 | 09-26-90 |
| 2993 | Bromobenzene | 96023-2 | | BDL | 502.2 | 0.001 | 09-26-90 |
| 2995 | m-xylene | 96023-2 | | BDL | 502.2 | 0.001 | 09-26-90 |
| 2996 | Styrene | 96023-2 | | BDL | 502.2 | 0.001 | 09-26-90 |
| 2997 | o-xylene | 96023-2 | | BDL | 502.2 | 0.001 | 09-26-90 |

Lab. Certification #82145
Lab./Sample No.: 96023-2
Date Reported: October 16, 1990

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
5710 Edenfield Rd.
Jacksonville,FL 32211

Date Reported: Jul24 1991
PO Number: 110996
PO Number Woodmere/Beac
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WOODMERE
Date Received: Jul12 1991 Lab Number : 17322

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 17322 |
|---|---|---|---|---|---|
| Endrin | mg/L | 0.000001 | 104 | 2.18 | <0.000001 |
| Lindane | mg/L | 0.000001 | 106 | 3.33 | <0.000001 |
| Methoxychlor | mg/L | 0.00001 | 104 | 6.80 | <0.00001 |
| Toxaphene | mg/L | 0.0001 | 105 | 3.38 | <0.0001 |
| 2,4-D | mg/L | 0.00005 | 89.8 | 11.4 | <0.00005 |
| 2,4,5-TP(Silvex) | mg/L | 0.00002 | 97.0 | 3.64 | <0.00002 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director

Page 1 of 2

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984
FAX (407) 260-6110

## PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

6/28/91

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number:_____
Public Water System Name Woodmere
Public Water System Type (check one):
( )Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyz: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical_X_: Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number 17322
Sample Location (be specific): _____
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
( )Raw ( )Well ( )Resample
( )Special_____
Sampler Name, Title Phone:_____
_____

**ANALYSIS INFORMATION**
Extraction Date 7/22/91
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTEL Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___: Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature: _____

Name **Jefferson S Flowers**

Title **Technical Director**

Laboratory **Flowers Chemical Laboratories,Inc.**

Date 7/23/91

Mail Results to the Appropriate DER or ACPHU Office:
_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 06/01/8 () Satisfactory () Unsatisfactory

Organic Chemical Analysis
17-550.310(2)(a)(b)
(PWS029)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2005 | Endrin | 17322 | 0.0002 | <.000001 | EPA508 | .000001 | 7/22/91 |
| 2010 | Lindane | 17322 | 0.004 | <.000001 | EPA508 | .000001 | 7/22/91 |
| 2015 | Methoxychlor | 17322 | 0.1 | <0.00001 | EPA508 | 0.00001 | 7/22/91 |
| 2020 | Toxaphene | 17322 | 0.005 | <0.0001 | EPA508 | 0.0001 | 7/22/91 |
| 2105 | 2,4-D | 17322 | 0.1 | <0.00005 | EPA515 | 0.00005 | 7/22/91 |
| 2110 | 2,4,5-TP(Silvex) | 17322 | 0.01 | <0.00002 | EPA515 | 0.00002 | 7/22/91 |

Comments:

Woodmere

FDEN Lab# 883018
FDHRS LAB# 85139
NCDENR Lab# 248
SCDHEC Lab# 96010

ANALYTICAL & CONSULTING CHEMISTS
CHAIN OF CUSTODY RECORD
DRINKING WATER 17-350

Attn: Chuck Fender

| (1) Client | (2) Address | (3) Phone |
|---|---|---|
| SSU Services | 5710 Edenfield Rd Jacksonville, FL 32211 | (904) 744-4188 |

(4) Public Drinking Water ID # See bottle label | (5) Public Water System Name: See bottle label
(6) Project # DHSR 110996
(8) Public Water System Type: (X) Community ( ) Non-Community ( ) Special Non-Community

| | Preservative | | | | Plastic Containers | | | | | | Glass Containers | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | HNO3 | ZnOAC/NaOH | | | 60ml | 125ml | 250ml | 500ml | 1L | Whirl-Pac Bag | 40ml | 250ml | 500ml | 1L | 1/2L | 4L |
| 1 | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |

(12) NOTES:
(13) Turn Around Time:
10 Working Days:
5 Working Days :
3 Working Days :
1 Working Day :
Other :

(9) Relinquished: | (10) Date | (10) Time | (11) Received | (11) Date | (11) Time

SAMPLE INFORMATION; SAMPLE DATE: MONTH 6 DATE 28 YEAR 91
SAMPLE TYPE ( check all applicable); ( ) check, (X) regular distribution
( ) composite, ( ) clearance, ( ) max residence time, ( ) plant tap,
( ) raw, ( ) well, ( ) resample _____, ( ) special _____
SAMPLER'S NAME: Charles S. Fender TITLE: Lead oper. PHONE: 904 473 1935
SAMPLER'S SIGNATURE: Charles S Fender

NOTES:
(2) Primary Organics

Samples were held at 4°C for storage until VOC samples were taken safely for Pollution Control System.

(2) Parameter Group(s) Analysed: Turbidity__; Inorganic__; Trihalomethane__; Volatile Organic__; Organic Chemical X; Secondary Chemical__; Radiological__; Unregulated Organic Purgeable__; Unregulated Organic Pesticide__; Unregulated Base Neutral Extractable__; Unregulated Acid Extractable__;

| (14) Laboratory Number | (15) Client Sample Identification |
|---|---|
| 17322 | #1 Woodmere #1E |
| 17323 | #2 Beacon Hills #1B |
| | #3 |
| | #4 |
| | #5 |
| | #6 |
| | #7 |
| | #8 |
| | #9 |
| | #10 |

(6) Collectors Signature: Charles S Fender Date 6/28/91 Time 1645
(7) Transporters Signature: Date 7/1/91 Time 9:52
(9) Lab Acceptance By:

TECHNICAL SERVICES, INC.
PUBLIC DRINKING WATER ANALYSIS REPORTING

PUBLIC WATER SYSTEM INFORMATION - SSU SERVICES (Customer's Name)
Public Water System I.D. Number: 2161278
Public Water System Name: Woodmere
Public Water System Type (check one): (XX) Community ( ) Non-Community ( ) Special Non-Community

PUBLIC CERTIFICATION INFORMATION:
Lab Certification Number: FDHRS #82145
Parameter Groups Analyzed: ( )Turbidity ( )Inorganic ( )Trihalomethane (XX)Volatile Organic ( )Organic Chemical
( Secondary Chemical ( )Radiological ( )Unregulated Organic Purgeable
( )Unregulated Organic Pesticide )Unregulated Base Neutral Extractable
( )Unregulated Acid Extractable
Subcontracted Lab Certification Number (if any): Not Applicable

SAMPLE INFORMATION:
Sample Date (MM/DD/YY): July 18, 1990
Laboratory Sample Number(s): 95014
Sample Location (be specific): WELL 1 AND WELL 2
Sample Type (check all applicable): ( )Check ( )Clearance ( )Raw ( )Regular Distribution (XX)Well ( )Plant Tap
( )Maximum Residence Time (X)Composite ( )Resample
( )Special
Sampler's Name & Title: Mr. Tony Calucci, Operator
Sampler's Company: SSU Services
Sampler's Phone Number: (904) 743-1888

ANALYSIS INFORMATION:
Extraction Date (MM/DD/YY): July 23, 1990
Laboratory Contact: Technical Services, Inc.'s receptionist will refer the caller to appropriate, responsible individual to provide the information requested. (904) 353-5761.
Resample Request: ( )Yes (XX)No
Analyses Submitted: ( )Turbidity ( )Inorganic ( )Trihalomethane (XX)Volatile Organic ( )Organic Chemical
( Secondary Chemical ( )Radiological ( )Unregulated Organic Purgeable
( )Unregulated Organic Pesticide ( )Unregulated Base Neutral Extractable
( )Unregulated Acid Extractable

I DO HEREBY CERTIFY THAT ALL DATA SUBMITTED ARE CORRECT.

Walter Monk
Laboratory Director
TECHNICAL SERVICES, INC.

Date: August 7, 1990

Results mailed to appropriate DER and/or ACPHU Office by (check one): (XX)Customer ( )Technical Services, Inc.

DER Reviewing Official

Sample Interpretation (check one)
( )Satisfactory ( )Unsatisfactory

ACPHU Reviewing Official

Sample Interpretation (Check one)
( )Satisfactory ( )Unsatisfactory

SSU SERVICES
LABORATORY NUMBER 95014
WOODMERE

TECHNICAL SERVICES, INC.
2471 Swan Street
Jacksonville, Florida 32204
(904) 353-5761

## TRIHALOMETHANE ANALYSIS
17-550.310(2)(c)
(PWSO27)

| Parameter ID | NAME | Sample Number | Location Code | Analysis Result (mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| Potential THM | | Not Applicable | | | | | |
| 2950 | TTHM | Not Applicable | | | | | |

Comments:

## VOLATILE ORGANIC ANALYSIS
17-550.310(2)(d)
(PWSO28)

| Parameter ID | NAME | Sample Number | Location Code | Analysis Result (mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 95014 | | BDL* | EPA 504 | 0.00001 | 07-24-90 |
| 2969 | Para--dichlorobenzene | 95014 | | BDL | EPA 502.1 | 0.001 | 07-19-90 |
| 2976 | Vinyl chloride | 95014 | | BDL | EPA 502.1 | 0.001 | 07-19-90 |
| 2977 | 1,1-dichloroethene | 95014 | | BDL | EPA 502.1 | 0.001 | 07-19-90 |
| 2980 | 1,2-dichloroethane | 95014 | | BDL | EPA 502.1 | 0.001 | 07-19-90 |
| 2981 | 1,1,1-trichloroethane | 95014 | | BDL | EPA 502.1 | 0.001 | 07-19-90 |
| 2982 | Carbon tetrachloride | 95014 | | BDL | EPA 502.1 | 0.001 | 07-19-90 |
| 2984 | Trichloroethene | 95014 | | BDL | EPA 502.1 | 0.001 | 07-19-90 |
| 2987 | Tetrachloroethene | 95014 | | BDL | EPA 502.1 | 0.001 | 07-19-90 |
| 2990 | Benzene | 95014 | | BDL | EPA 502.1 | 0.001 | 07-19-90 |

Comments: BDL - Below Detection Limit

Lab. Certification #82145
Lab./Sample No.: 95014
Date Reported: August 7, 1990

TECHNICAL SERVICES, INC.
PUBLIC DRINKING WATER ANALYSIS REPORTING

PUBLIC WATER SYSTEM INFORMATION - SSU SERVICES, INC. (Customer's Name)
Public Water System I.D. Number: 2161278
Public Water System Name: Woodmere Water Treatment Plant
Public Water System Type (check one): (X) Community ( ) Non-Community ( ) Special Non-Community

PUBLIC CERTIFICATION INFORMATION:
Lab Certification Number: FDHRS #82145
Parameter Groups Analyzed: ( )Turbidity ( )Inorganic ( )Trihalomethane (X)Volatile Organic ( )Organic Chemical
( Secondary Chemical ( )Radiological ( )Unregulated Organic Purgeable
( )Unregulated Organic Pesticide )Unregulated Base Neutral Extractable
( )Unregulated Acid Extractable
Subcontracted Lab Certification Number (if any): Not Applicable

SAMPLE INFORMATION:
Sample Date (MM/DD/YY): October 17, 1990 @ 9:35am
Laboratory Sample Number(s): 96349
Sample Location (be specific): WELL #1 and WELL #2, Woodmere Water Treatment Plant
Sample Type (check all applicable): ( )Check ( )Clearance ( )Raw ( )Regular Distribution (X)Well ( )Plant Tap
( )Maximum Residence Time (X)Composite ( )Resample
( )Special
Sampler's Name & Title: Mr. Charles S. Fender
Sampler's Company: SSU Services, Inc.
Sampler's Phone Number: (904) 744-4188

ANALYSIS INFORMATION:
Extraction Date (MM/DD/YY): EDB - 10/21/90
Laboratory Contact: Technical Services, Inc.'s receptionist will refer the caller to appropriate, responsible individual to provide the information requested. (904) 353-5761.
Resample Request: ( )Yes (X)No
Analyses Submitted: ( )Turbidity ( )Inorganic ( )Trihalomethane (X)Volatile Organic ( )Organic Chemical
( Secondary Chemical ( )Radiological ( )Unregulated Organic Purgeable
( )Unregulated Organic Pesticide ( )Unregulated Base Neutral Extractable
( )Unregulated Acid Extractable

I DO HEREBY CERTIFY THAT ALL DATA SUBMITTED ARE CORRECT.

Laboratory Director
TECHNICAL SERVICES, INC.

Date: October 29, 1990

Results mailed to appropriate DER and/or ACPHU Office by (check one): (X)Customer ( )Technical Services, Inc.

DER Reviewing Official

Sample Interpretation (check one)
( )Satisfactory ( )Unsatisfactory

ACPHU Reviewing Official

Sample Interpretation (Check one)
( )Satisfactory ( )Unsatisfactory

SSU SERVICES
LABORATORY NUMBER 96349
WOODMERE WATER TREATMENT PLANT

TECHNICAL SERVICES, INC.
2471 Swan Street
Jacksonville, Florida 32204
(904) 353-5761

## TRIHALOMETHANE ANALYSIS
17-550.310(2)(c)
(PWSO27)

| Parameter ID | NAME | Sample Number | Location Code | Analysis Result (mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| Potential THM | | Not Applicable | | | | | |
| 2950 | TTHM | Not Applicable | | | | | |

Comments:

## VOLATILE ORGANIC ANALYSIS
17-550.310(2)(d)
(PWSO28)

| Parameter ID | NAME | Sample Number | Location Code | Analysis Result (mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 96349 | | BDL* | EPA 504 | 0.00001 | 10-23-90 |
| 2969 | Para--dichlorobenzene | 96349 | | BDL | EPA 502.2 | 0.001 | 10-25-90 |
| 2976 | Vinyl chloride | 96349 | | BDL | EPA 502.2 | 0.001 | 10-25-90 |
| 2977 | 1,1-dichloroethene | 96349 | | BDL | EPA 502.2 | 0.001 | 10-25-90 |
| 2980 | 1,2-dichloroethane | 96349 | | BDL | EPA 502.2 | 0.001 | 10-25-90 |
| 2981 | 1,1,1-trichloroethane | 96349 | | BDL | EPA 502.2 | 0.001 | 10-25-90 |
| 2982 | Carbon tetrachloride | 96349 | | BDL | EPA 502.2 | 0.001 | 10-25-90 |
| 2984 | Trichloroethene | 96349 | | BDL | EPA 502.2 | 0.001 | 10-25-90 |
| 2987 | Tetrachloroethene | 96349 | | BDL | EPA 502.2 | 0.001 | 10-25-90 |
| 2990 | Benzene | 96349 | | BDL | EPA 502.2 | 0.001 | 10-25-90 |

Comments: BDL - Below Detection Limit

Lab. Certification #82145
Lab./Sample No.: 96349
Date Reported: October 29, 1990

A-1

ENVIRONMENTAL LABORATORIES INCORPORATED

FDER Lab
FDHR Lab
NCDEHNR Lab
SCDHEC Lab

ANALYTICAL & CONSULTING CHEMISTS
CHAIN OF CUSTODY RECORD
DRINKING WATER 17-550

Attn: Chuck Fender

| (1)Client | (2)Address | (3)Phone |
|---|---|---|
| SSU Services | 5710 Edenfield Rd Jacksonville, FL 32211 | (904) 744-4188 |

| (4)Public Drinking Water ID # | (5)Public Water System Name: |
|---|---|
| See bottle label | See bottle label |

| (6)Project # | (8)Public Water System Type |
|---|---|
| (7)PO# 110996 | (X) Community ( ) Non-Community ( ) Special Non-Community |

| | | Preservative | | | Plastic Containers | | | | | Glass Containers | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | HCl | ZnOAc/NaOH | | 60ml | 125ml | 250ml | 500ml | 1L | 40ml | 250ml | 500ml | 1L | X2L | 4L |
| 2 | | | | | | | | | | | | | | | |

NOTES:
(18)Turn Around Time:
10 Working Days:
5 Working Days :
3 Working Days :
1 Working Day :
Other :

Attach COC

| (10)Relinquished: | (10)Date / (11)Time | (11)Received | Date / Time |
|---|---|---|---|
| | | | |

SAMPLE INFORMATION; SAMPLE DATE: MONTH 6 DATE 28 YEAR 91
SAMPLE TYPE ( check all applicable); ( ) check, (X) regular distribution
( ) composite, ( ) clearance, ( ) max residence time, ( ) plant tap,
( ) raw, ( ) well, ( ) resample _____, ( ) special _____
SAMPLER'S NAME: Charles S. Fender TITLE: Lead oper. PHONE: (904) 473 1885
SAMPLER'S SIGNATURE: Charles S Fender

NOTES:
(2) Primary Organics

Samples were held at 4°C for storage until VOC samples were taken in July for Pollard Utility Systems.

(9)Parameter Group(s) Analysed: Turbidity__; Inorganic__; Trihalomethane__; Volatile Organic__; Organic Chemical(X); Secondary Chemical__; Radiological__; Unregulated Organic Purgeable__; Unregulated Organic Pesticide__; Unregulated Base Neutral Extractable__; Unregulated Acid Extractable__;

| (9)Laboratory Number | (15)Client Sample Identification |
|---|---|
| 17322 | #1 Woodmere Plt |
| 17323 | #2 Beacon Hills Plt |
| | #3 |
| | #4 |
| | #5 |
| | #6 |
| | #7 |
| | #8 |
| | #9 |
| | #10 |

| | | Date | Time |
|---|---|---|---|
| (6)Collectors Signature: | Charles S Fender | 6/28/91 | 1645 |
| (7)Transporters Signature: | | | |
| (9)Lab Acceptance By: | | 7/1/91 | 9:52 |

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Woodmere
BEACON
Cobblestone

Received From: SSU
5710 Edenfield Rd.
Jacksonville,FL 32211

Date Reported: Feb26 1991
PO Number: 22171

PO Number
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WELL COMP.
Date Received: Feb15 1991 Lab Number : 16312

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16312 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 108 | 1.90 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 117 | 6.42 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 100. | .045 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 100. | .045 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 108 | 1.81 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 96.4 | .248 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 98.9 | .004 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 94.4 | .671 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 107 | 2.65 | <0.001 |
| Benzene | mg/L | 0.001 | 92.9 | 2.20 | <0.001 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director

Page 1 of 1

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984
FAX (407) 260-6110

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number:_____
Public Water System Name Woodacre
Public Water System Type (check one):
( )Commun ( )Non-community ( )Special Non-community

LABORATORY CERTIFICATION INFORMATION
Lab Certification Number: HRS 83139
Parameter Group(s) Analyzi Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;
Subcontracted Lab Certification Number (if any):

SAMPLE INFORMATION
Sample Date (MMDDYY):
Laboratory Sample Number 16312
Sample Location (be specific): _____
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
( )Raw ( )Well ( )Resample
( )Special_____
Sampler Name, Title Phone:_____
_____

ANALYSIS INFORMATION
Extraction Date ___/___/____
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTED Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature _____

Name Dr Jefferson S Flowers

Title Technical Director

Laboratory Flowers Chemical Laboratories,Inc.

Date 2/25/91

Mail Results to the
Appropriate DER or ACPHU Office:
_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 06/01/8 () Satisfactory () Unsatisfactory

Volatile Organic Analysis
17-550.310(2)(d)
(PWS029)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 16312 | .00002 | <0.000005 | EPA504.1 | .000005 | 2/22/91 |
| 2969 | Para-dichlorobenzene | 16312 | .075 | <0.001 | EPA502.2 | 0.001 | 2/22/91 |
| 2976 | Vinyl chloride | 16312 | 0.001 | <0.001 | EPA502.2 | 0.001 | 2/22/91 |
| 2977 | 1,1-dichloroethene | 16312 | 0.007 | <0.001 | EPA502.2 | 0.001 | 2/22/91 |
| 2980 | 1,2-dichloroethane | 16312 | 0.003 | <0.001 | EPA502.2 | 0.001 | 2/22/91 |
| 2981 | 1,1,1-trichloroethane | 16312 | 0.2 | <0.001 | EPA502.2 | 0.001 | 2/22/91 |
| 2982 | Carbon tetrachloride | 16312 | 0.003 | <0.001 | EPA502.2 | 0.001 | 2/22/91 |
| 2984 | Trichloroethene | 16312 | 0.003 | <0.001 | EPA502.2 | 0.001 | 2/22/91 |
| 2987 | Tetrachloroethene | 16312 | 0.003 | <0.001 | EPA502.2 | 0.001 | 2/22/91 |
| 2990 | Benzene | 16312 | 0.001 | <0.001 | EPA502.2 | 0.001 | 2/22/91 |

Comments:

B-1

ANALYTICAL & CONSULTING CHEMISTS
CHAIN OF CUSTODY RECORD
DRINKING WATER 17-350

Mr. Check Fenner

(1) Client: SSU Service
(2) Address: 5710 Enterprise Rd. Jackson Creek 39211
(2) Phone: 904 744-4188
(4) Public Drinking Water ID #:
(5) Public Water System Name:
(6) Project #:
(7) PO#:
(8) Public Water System Type: ( ) Community ( ) Non-Community ( ) Special Non-Community

| (9) | Preservative: HNO3 | Preservative: ZnOAC+NaOH | Plastic Containers: 60ml | 125ml | 250ml | 500ml | 1L | Whirl-Pac Bag | Glass Containers: 40ml | 250ml | 500ml | 1L | 2L | 4L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12 | | | | | | | | | X | | | | | |

NOTES:
(18) Turn Around Time:
10 Working Days:
5 Working Days :
3 Working Days :
1 Working Day :
Other :
6 Wells
2 Samples

(10) Relinquished: Stephen D Nicholas — (10) Date — (10) Time
(11) Received — (11) Date — (11) Time

(12) SAMPLE INFORMATION; SAMPLE DATE: MONTH 02 DATE 14 YEAR 91
SAMPLE TYPE ( check all applicable); ( ) check, ( ) regular distribution
( ) composite, ( ) clerance, ( ) max residence time, ( ) plant tap,
( ) raw, (✓) well, ( ) resample _____, ( ) special _____
SAMPLER'S NAME: Charles S. Fenner TITLE: Operator PHONE: 744-4188
SAMPLER'S SIGNATURE: Charles S Fenner
NOTES: The Names + #'s of pltys are: 16312 comp. { Woodmere — 216 1278 — 2 wells; Beacon Hills — 21690064 — 2 wells; Cobblestone — 216 4406 — 1 well }
16313 by itself Remington Forest — 2554361 — 1 well

Lr Kits

(13) Parameter Group(s) Analysed: Turbidity__; Inorganic__; Trihalomethane__; Volatile Organic✓;
Organic Chemical__; Secondary Chemical__; Radiological__; Unregulated Organic Purgeable__;
Unregulated Organic Pesticide ; Unregulated Base Neutral Extractable ; Unregulated Acid Extractable ;

| (14) Laboratory Number | (15) Client Sample Identification |
|---|---|
| ~~16310~~ | ~~Woodmere / Cobblestone / Beacon Hills~~ |
| ~~16311~~ | ~~Remington Forest~~ |
| 16312 | Woodmere / Cobblestone / Beacon Hills PO# 22171 |
| 16313 | Remington Forest PO# |
| | #6 |
| | #7 |
| | #8 |
| | #9 |
| | #10 |

| | | Date | Time |
|---|---|---|---|
| (16) Collectors Signature: | | | |
| (17) Transporters Signature: | | | |
| (19) Lab Acceptance By: | | 2/15/91 | 2110 |

OVER FOR INSTRUCTIONS FOR COMPLETION

**TECHNICAL SERVICES, INC.**

*Environmental Consultants*
*Analysis—Sampling—Testing—Surveys*

JACKSONVILLE, FLORIDA
(904) 353-5761, 353-5762, 358-2908

GENERAL OFFICES:
2471 Swan Street
Jacksonville, FL 32204

MAILING ADDRESS:
P.O. Box 52329
Jacksonville, FL 32201

Laboratory No. 89181 May 4, 19 89

Sample of Water

Date Received April 11, 1989 @ 10:05am

For Attn: Mike Akers
Southern States Utilities, P.O. Box 8931, Jacksonville, Florida 32239

Marks: Sampled by customer 4-11-89 @ 9:30am, Woodmere Water Treatment Plant
P.O. #11210

**CERTIFICATE OF ANALYSIS OR TESTS**

| | | METHOD | DATE | TIME | ANALYST |
|---|---|---|---|---|---|
| Gross Alpha, pCi/liter * | 0 ± 2 | SM 703 | 4-25-89 | 3:18pm | CEP |

* THESE RESULTS WERE SUPPLIED BY SUBCONTRACTOR CEP, FDHRS #87239

Respectfully submitted,
Technical Services, Inc.

James A Burton

VF

LABORATORY I.D. NO. 82145

HRS

State of Florida
Department of Health and Rehabilitative Services
Office of Laboratory Services
P.O. Box 210
Jacksonville, Florida 32231

FOR LAB USE ONLY
I.D. NO. 12001
REC[illegible]X
DEC [illegible] 1991
RICHARD CLARK

# DRINKING WATER BACTERIOLOGICAL ANALYSIS

SYSTEM NAME: Woodmere SYSTEM I.D. NO: 2161278 SYSTEM PHONE #: 721-1183

ADDRESS: 570 Edwards RD COUNTY: Duval DER DISTRICT: II

COLLECTOR: Daniel P Chase COLLECTOR PHONE #: 744-1137

SAMPLE SITE (Locality or Subdivision): Woodmere Community Park

DATE AND TIME COLLECTED: 12-18-91 9:00 A.M.

TYPE OF SUPPLY(Circle one): (Community water system) Noncommunity water system Nontransient - noncommunity water system
Private well Swimming pool Bottled water Other public water system

TYPE OF SAMPLE(Circle one): (Compliance) Repeat Replacement Main clearance Well survey Other _____ (Specify)
(Check Box)
[X] Distribution
[ ] Raw
(Check Box)
[ ] TNTC or C
[ ] Turbid
[ ]

REMARKS:

4 :)

| TO BE COMPLETED BY COLLECTOR OF SAMPLE | | | | TO BE COMPLETED BY LAB | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | ANALYSIS METHOD: | MF | MTF | MMO-MUG | |
| COLL. NO. | SAMPLE POINT (Specific Address) | Cl RES'D | pH | SAMPLE NUMBER | NON COLIFORM | *TOTAL | CONFIRM TOTAL | CONFIRM FECAL |
| 1 | Golf Course L.H Station | 1.2 | | 630232 | | A | | |
| 2 | 5858 Jim Tom Dr | 1.5 | | 630233 | | A | | |
| 3 | 6160 Rundlake Dr. S. | 1.6 | | 630234 | | A | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

* Results in this column are preliminary. Fecal coliform confirmation on community and noncommunity water systems and total coliform confirmation on all types of water systems will follow in 24-48 hours.

P - Coliforms are present C - Confluent growth TA - Turbid, Absence of gas or acid
A - Coliforms are absent TNTC - Too numerous to count

INTERPRETATIONS-REMARKS BY PROGRAM REVIEWER

HRS Form 658, Jan 91 (Obsolete previous editions which may not be used) (Stock Number 4760-000-0658-5)

NAME AND MAILING ADDRESS OF PERSON/FIRM TO RECEIVE REPORT

S.S.U. Services
P.O. Box 8931
Jax FL 32239

( )
( ) SATISFACTORY
( ) INCOMPLETE COLLECTION INFORMATIO
( ) REPEAT SAMPLES
( ) REPLACEMENT SAMPLES

REVIEWING OFFICIAL Chris C. Carter

TITLE: _____

HRS

State of Florida
Department of Health and Rehabilitative Services
Office of Laboratory Services
P.O. Box 210
Jacksonville, Florida 32231

FOR LAB USE ONLY
RECEIVED 12001
DEC 3 1 1991
RICHARD DERRY

# DRINKING WATER
# BACTERIOLOGICAL ANALYSIS

SYSTEM NAME: Woodmere SYSTEM I.D. NO: 2161278 SYSTEM PHONE #: 744-4158
ADDRESS: Edenfield Road COUNTY: Duval DER DISTRICT: II
COLLECTOR: D. Holcomb COLLECTOR PHONE #: 744-4158
SAMPLE SITE (Locality or Subdivision): Woodmere
DATE AND TIME COLLECTED: 12/3/91 9:15AM - 9:50AM

TYPE OF SUPPLY(Circle one): (Community water system) Noncommunity water system Nontransient - noncommunity water system
Private well Swimming pool Bottled water Other public water system

TYPE OF SAMPLE(Circle one): (Compliance) Repeat Replacement Main clearance Well survey Other _____ (Specify)
(Check Box) [✓] Distribution [ ] Raw
(Check Box) [ ] THTC or C [ ] Turbid [ ]

REMARKS:

40

| TO BE COMPLETED BY COLLECTOR OF SAMPLE | | | | TO BE COMPLETED BY LAB | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ANALYSIS METHOD: MF MTF MMO-MUG PA | | | | | |
| COLL. NO. | SAMPLE POINT (Specific Address) | Cl RES'D | pH | SAMPLE NUMBER | NON COLIFORM | *TOTAL | CONFIRM TOTAL | CONFIRM FECAL |
| #1 | Well #1 - Raw | - | 6.9 | 060187 | | A | | |
| #2 | Well #2 - Raw | - | 6.7 | 060188 | | A | | |
| #3 | Treated 5032 Chimney Court | 2.0 | - | 060189 | | A | | |
| #4 | Treated 4340 Charter Point | 0.6 | - | 060190 | | A | | |
| #5 | Treated Palmetto E. U.S. Hwy 17 | 0.3 | - | 060191 | | A | | |
| | | | | | | | | |
| | | | | | | | | |

SATISFACTORY

* Results in this column are preliminary. Fecal coliform confirmation on community and noncommunity water systems and total coliform confirmation on all types of water systems will follow in 24-48 hours.

A - Coliforms are absent P - Coliforms are present C - Confluent growth TNTC - Too numerous to count TA - Turbid, Absence of gas or acid

INTERPRETATIONS-REMARKS BY PROGRAM REVIEWER:

NAME AND MAILING ADDRESS OF PERSON/FIRM TO RECEIVE REPORT:
SSU
P.O. Box 8931
Jacksonville FL 32239

( ) SATISFACTORY
( ) INCOMPLETE COLLECTION INFORMAT
( ) REPEAT SAMPLES
( ) REPLACEMENT SAMPLES

REVIEWING OFFICIAL: Clem C. Carter
TITLE: _____

# Wootens - 446

**Putnam County (SSU)**

**Water**

## - 1992 FPSC Filing -

# Wooten

## Chemical Analyses

The most recent chemical analyses for the water system conducted by a certified laboratory covering the inorganic, organic, turbidity, microbiological, radionuclide, secondary and unregulated contaminants.

| Chemical Analysis | Date Taken |
|---|---|
| Inorganic | 7/91 |
| Organic | 7/91 |
| Volatile Organic Chemicals | 1/91 |
| | 4/91 |
| | 7/91 |
| | 10/91 |
| Turbidity | 7/91 |
| Microbiological | 12/91 |
| Radionuclide | 6/88 |
| Secondary Contaminants | 7/91 |
| Unregulated Contaminants | 1/91 |

Putnam County Office
P. O. Box 458
Pomona Park, FL 32181

TO FRANK S- Clara T.

Date: April 9, 1991

To: Jim Maher

Re: First Quarter 1991 VOC & UC analysis results

Enclosed are copies of VOC & UC analysis results. As discussed in our conversation, we grouped our wells for this procedure. The grouping was as follows:

| SAMPLE # | PLANTS INCLUDED IN SAMPLE | ID NUMBERS |
|---|---|---|
| # 1 | Interlachen Lake Estates | 2540545 |
| | Park Manor | 2540873 |
| | Silver Lake Oaks | 2544258 |
| # 2 | River Park # 1 | 2540962 |
| | River Park # 2 | 2540963 |
| | River Park # 3 | 2540964 |
| | Wootens | 2541280 |
| # 3 | Pomona Park | 2540905 |
| | Hermits Cove | 2540482 |
| | Palm Port | 2540865 |
| | River Grove | 2540959 |
| # 4 | Beechers Point | 2540070 |
| | Welaka Mobile Home Park | 2541242 |
| | Saratoga Harbor | 2541000 |
| | St. Johns Highlands | 2540489 |

If you have any questions, please call either Jerry Boyd or Paul Thompson at 904-649-4143.

Copies: Charles Sweat
J.J. Welsh
File

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU
110 Church St
PompanoPrk,FL 32181

Date Reported: Feb26 1991
PO Number: Putnam Co.
PO Number 891028
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 2
Date Received: Jan30 1991 Lab Number : 16154

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16154 |
|---|---|---|---|---|---|
| Dinoseb | mg/L | 0.00001 | 3.80 | 2.00 | <0.00001 |
| Aldicarb sulfoxide | mg/L | 0.002 | 91.0 | 3.89 | <0.002 |
| Aldicarb sulfone | mg/L | 0.002 | 89.5 | 3.16 | <0.002 |
| Metolachlor | mg/L | 0.0005 | 98.1 | 3.01 | <0.0005 |
| Carbofuran | mg/L | 0.001 | 91.0 | 2.33 | <0.001 |
| Aldicarb | mg/L | 0.002 | 105 | 3.70 | <0.002 |
| Atrazine | mg/L | 0.002 | 106 | 0.78 | <0.002 |
| Alachlor (Lasso) | mg/L | 0.0002 | 110 | 1.00 | <0.0002 |
| Heptachlor | mg/L | 0.000005 | 103 | .550 | <0.000005 |
| Aldrin | mg/L | 0.00007 | 117 | 1.46 | <0.00007 |
| Dieldrin | mg/L | 0.00001 | 94.8 | 2.09 | <0.00001 |
| Dicamba | mg/L | 0.00001 | 2.95 | 2.00 | <0.00001 |
| Chlordane | mg/L | 0.00001 | 117 | 1.46 | <0.00001 |
| Pentachlorophenol | mg/L | 0.005 | 1.42 | .500 | <0.005 |
| Hexachlorocyclopenta | mg/L | 0.001 | 100 | 1.94 | <0.001 |
| Dioxin | mg/L | 0.00001 | 101 | 2.47 | <0.00001 |
| Isophorone | mg/L | 0.001 | 99 | 1.41 | <0.001 |
| 2,4-dinitrotoluene | mg/L | 0.001 | 103 | 3.53 | <0.001 |
| Dimethylphthalate | mg/L | 0.001 | 100 | 0.34 | <0.001 |
| Diethylphthalate | mg/L | 0.001 | 98.6 | 2.02 | <0.001 |
| Di-n-butylphthalate | mg/L | 0.001 | 101 | 0.79 | <0.001 |
| Butyl benzyl phthala | mg/L | 0.001 | 97.7 | 3.38 | <0.001 |
| Bis(2-ethylhexyl)pht | mg/L | 0.001 | 99.2 | 1.11 | <0.001 |
| 1,2,4-trichlorobenze | mg/L | 0.001 | 99.7 | 0.37 | <0.001 |
| PCB_1016 | mg/L | 0.0001 | 102 | 3.04 | <0.0001 |
| PCB_1221 | mg/L | 0.0001 | 98.4 | .862 | <0.0001 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 Newport
P.O. Box
Altamonte Springs
Florida 32715-0597
Bus: (407) 339-
FAX: (407)

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
110 Church St
PompanoPrk,FL 32181

Date Reported: Feb26 1991
PO Number: Putnam Co.
PO Number B91028
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 2
Date Received: Jan30 1991 Lab Number : 16154

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16154 |
|---|---|---|---|---|---|
| Bromoform | mg/L | 0.001 | 115 | 8.58 | <0.001 |
| Bromodichloromethane | mg/L | 0.001 | 102 | 3.61 | <0.001 |
| Dibromochloromethane | mg/L | 0.001 | 109 | 2.82 | <0.001 |
| p-xylene | mg/L | 0.001 | 97.0 | 2.10 | <0.001 |
| Methylene chloride | mg/L | 0.001 | 109 | .858 | <0.001 |
| o-chlorotoluene | mg/L | 0.001 | 104 | 1.19 | <0.001 |
| p-chlorotoluene | mg/L | 0.001 | 93.4 | 1.89 | <0.001 |
| m-dichlorobenzene | mg/L | 0.001 | 115 | .495 | <0.001 |
| o-dichlorobenzene | mg/L | 0.001 | 111 | .180 | <0.001 |
| 1,1-dichloroethane | mg/L | 0.001 | 100 | 1.31 | <0.001 |
| trans-1,2-dichloroet | mg/L | 0.001 | 107 | 0.72 | <0.001 |
| 1,2-dichloropropane | mg/L | 0.001 | 99.1 | .590 | <0.001 |
| 1,1,2-trichloroethan | mg/L | 0.001 | 114 | .841 | <0.001 |
| 1,1,1,2-tetrachloroe | mg/L | 0.001 | 110 | 1.16 | <0.001 |
| 1,1,2,2-tetrachloroe | mg/L | 0.001 | 120 | 2.20 | <0.001 |
| Chlorobenzene | mg/L | 0.001 | 101 | .116 | <0.001 |
| Toluene | mg/L | 0.001 | 93.4 | 1.89 | <0.001 |
| Ethylbenzene | mg/L | 0.001 | 92.9 | 1.29 | <0.001 |
| Bromobenzene | mg/L | 0.001 | 101 | .116 | <0.001 |
| m-xylene | mg/L | 0.001 | 97.0 | 2.10 | <0.001 |
| Styrene | mg/L | 0.001 | 93.4 | 1.89 | <0.001 |
| o-xylene | mg/L | 0.001 | 97.0 | 2.10 | <0.001 |
| Dalapon | mg/L | 0.000001 | 1.07 | 2.00 | <0.000001 |
| Oxamyl (Vydate) | mg/L | 0.002 | 95.8 | 1.85 | <0.002 |
| Simazine | mg/L | 0.007 | 2.63 | 1.5 | <0.007 |
| Picloram | mg/L | 0.00007 | 1.47 | 1.00 | <0.00007 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director

Jefferson S. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
861 NEWPORT
P.O. BOX
ALTAMONTE
FLORIDA
BUS

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU
110 Church St
PompanoPrk,FL 32181

Date Reported: Feb26 1991
PO Number: Putnam Co.
PO Number B91028
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 2
Date Received: Jan30 1991 Lab Number : 16154

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16154 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | .000005 | 107 | .899 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 106 | 0.81 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 104 | 0.70 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 104 | 0.70 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 104 | 2.80 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 108 | 3.07 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 112 | 5.08 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 115 | 3.15 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 113 | 3.0 | <0.001 |
| Benzene | mg/L | 0.001 | 111 | 2.81 | <0.001 |
| Chloromethane | mg/L | 0.001 | 109 | .858 | <0.001 |
| Dichlorodifluorometh | mg/L | 0.001 | 100 | .702 | <0.001 |
| Bromomethane | mg/L | 0.001 | 109 | .858 | <0.001 |
| Chloroethane | mg/L | 0.001 | 104 | .542 | <0.001 |
| Trichlorofluorometha | mg/L | 0.001 | 100 | .702 | <0.001 |
| trans-1,3,-dichlorop | mg/L | 0.001 | 107 | 7.14 | <0.001 |
| cis-1,3-dichloroprop | mg/L | 0.001 | 117 | 1.36 | <0.001 |
| Methyl-tert-butyleth | mg/L | 0.001 | 111 | 6.74 | <0.001 |
| cis-1,2-dichloroethe | mg/L | 0.001 | 117 | 1.36 | <0.001 |
| Dibromomethane | mg/L | 0.001 | 109 | .858 | <0.001 |
| 1,1-dichloropropene | mg/L | 0.001 | 106 | 6.2 | <0.001 |
| 1,3-dichloropropane | mg/L | 0.001 | 107 | 7.14 | <0.001 |
| 1,2,3-trichloropropa | mg/L | 0.001 | 105 | 5.27 | <0.001 |
| 2,2-dichloropropane | mg/L | 0.001 | 104 | .542 | <0.001 |
| 1,2-dibromo-3-chloro | mg/L | 0.001 | 105 | 5.27 | <0.001 |
| Chloroform | mg/L | 0.001 | 99.1 | 1.06 | <0.001 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
441 NEWBERRY ROAD
P.O. BOX 150
ALIANCHUA, FLORIDA 32615-0597
BUS (904) 339-2184
FAX (904) 376-8987

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
110 Church St
PompanoPrk,FL 32181

Date Reported: Feb26 1991
PO Number: Putnam Co.
PO Number 891028
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 2
Date Received: Jan30 1991 Lab Number : 16154

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16154 |
|---|---|---|---|---|---|
| PCB_1232 | mg/L | 0.0001 | 110 | 7.32 | <0.0001 |
| PCB_1242 | mg/L | 0.0001 | 99.1 | 1.86 | <0.0001 |
| PCB_1248 | mg/L | 0.0001 | 102 | 3.04 | <0.0001 |
| PCB_1254 | mg/L | 0.0001 | 110 | 7.32 | <0.0001 |
| PCB_1260 | mg/L | 0.0001 | 102 | 3.04 | <0.0001 |
| Dioctylphthalate | mg/L | 0.001 | 98.9 | 1.55 | <0.001 |
| 2-chlorophenol | mg/L | 0.001 | 101 | 2.05 | <0.001 |
| 2-methyl-4,6-dinitop | mg/L | 0.001 | 106 | 7.47 | <0.001 |
| Phenol | mg/L | 0.001 | 84.1 | 26.7 | <0.001 |
| 2,4,6-trichloropheno | mg/L | 0.001 | 93.3 | 10.1 | <0.001 |

Data Release Authorization

Sample integrity and reliability certified by Lab personnel prior to analysis. Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



Jefferson L Flowers, PhD
Jefferson S Flowers, PhD
481 NEWBURYPORT
P O BOX 150
ALTAMONTE SPRINGS
FLORIDA 32715 0597
BUS (407) 339 5764
FAX (407) 339 5765

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number:_____
Public Water System Name Wooten
Public Water System Type (check one):
( )Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyzed: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable_X_; Unregulated Organic Pesticide_X_;
Unregulated Base Neutral Extractable_X_;Unregulated Acid Extractable__X_;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number 16154
Sample Location (be specific): _____
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
( )Raw ( )Well ( )Resample
( )Special_____
Sampler Name, Title Phone:_____
_____

**ANALYSIS INFORMATION**
Extraction Date 2/13/91
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTED Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature:_____

Name Dr Jefferson S Flowers

Title Technical Director

Laboratory Flowers Chemical Laboratories,Inc.

Date 2/22/91

Mail Results to the Appropriate DER or ACPHU Office:
_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 08/01/9 () Satisfactory () Unsatisfactory

## Volatile Organic Analysis
17-550.310(2)(d)
(PWS029)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 16154 | .00002 | <0.000005 | EPA504.1 | .000005 | 2/19/91 |
| 2969 | Para-dichlorobenzene | 16154 | .075 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2976 | Vinyl chloride | 16154 | 0.001 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2977 | 1,1-dichloroethene | 16154 | 0.007 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2980 | 1,2-dichloroethane | 16154 | 0.003 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2981 | 1,1,1-trichloroethane | 16154 | 0.2 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2982 | Carbon tetrachloride | 16154 | 0.003 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2984 | Trichloroethene | 16154 | 0.003 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2987 | Tetrachloroethene | 16154 | 0.003 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2990 | Benzene | 16154 | 0.001 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |

Comments:

## Unregulated Organic Purgeable Analysis
17-550.410(1)
(PWS034)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2210 | Chloromethane | 16154 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2212 | Dichlorodifluoromethan | 16154 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2214 | Bromomethane | 16154 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2216 | Chloroethane | 16154 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2218 | Trichlorofluoromethane | 16154 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2224 | trans-1,3,-dichloroprop | 16154 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2228 | cis-1,3-dichloropropene | 16154 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2251 | Methyl-tert-butylether | 16154 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2380 | cis-1,2-dichloroethene | 16154 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2408 | Dibromomethane | 16154 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2410 | 1,1-dichloropropene | 16154 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2412 | 1,3-dichloropropane | 16154 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2414 | 1,2,3-trichloropropane | 16154 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2416 | 2,2-dichloropropane | 16154 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2931 | 1,2-dibromo-3-chloropr | 16154 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2941 | Chloroform | 16154 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2942 | Bromoform | 16154 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2943 | Bromodichloromethane | 16154 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2944 | Dibromochloromethane | 16154 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2962 | p-xylene | 16154 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2964 | Methylene chloride | 16154 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2965 | o-chlorotoluene | 16154 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2966 | p-chlorotoluene | 16154 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2967 | m-dichlorobenzene | 16154 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2968 | o-dichlorobenzene | 16154 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2978 | 1,1-dichloroethane | 16154 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2979 | trans-1,2-dichloroethyl | 16154 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2983 | 1,2-dichloropropane | 16154 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2985 | 1,1,2-trichloroethane | 16154 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2986 | 1,1,1,2-tetrachloroetha | 16154 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2988 | 1,1,2,2-tetrachloroetha | 16154 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2989 | Chlorobenzene | 16154 | | <0.001 | EPA502.2 | 0.001 | 2/13/91 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 2991 | Toluene | 16154 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2992 | Ethylbenzene | 16154 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2993 | Bromobenzene | 16154 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2995 | m-xylene | 16154 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2996 | Styrene | 16154 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |
| 2997 | o-xylene | 16154 | <0.001 | EPA502.2 | 0.001 | 2/13/91 |

Comments:

Unregulated Organic Pesticide Analysis
17-550.410(2)
(PWS035)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2031 | Dalapon | 16154 | | <0.000001 | EPA515 | .000001 | 2/21/91 |
| 2036 | Oxamyl (Vydate) | 16154 | | <0.002 | EPA531 | 0.002 | 2/18/91 |
| 2037 | Simazine | 16154 | | <0.007 | EPA505 | 0.007 | 2/21/91 |
| 2040 | Picloram | 16154 | | <0.00007 | EPA515 | 0.00007 | 2/21/91 |
| 2041 | Dinoseb | 16154 | | <0.00001 | EPA515 | 0.00001 | 2/21/91 |
| 2043 | Aldicarb sulfoxide | 16154 | | <0.002 | EPA531 | 0.002 | 2/18/91 |
| 2044 | Aldicarb sulfone | 16154 | | <0.002 | EPA531 | 0.002 | 2/18/91 |
| 2045 | Metolachlor | 16154 | | <0.0005 | EPA505 | 0.0005 | 2/21/91 |
| 2046 | Carbofuran | 16154 | | <0.001 | EPA531 | 0.001 | 2/18/91 |
| 2047 | Aldicarb | 16154 | | <0.002 | EPA531 | 0.002 | 2/18/91 |
| 2050 | Atrazine | 16154 | | <0.002 | EPA505 | 0.002 | 2/21/91 |
| 2051 | Alachlor (Lasso) | 16154 | | <0.0002 | EPA505 | 0.0002 | 2/21/91 |
| 2065 | Heptachlor | 16154 | | <.000005 | EPA508 | .000005 | 2/21/91 |
| 2356 | Aldrin | 16154 | | <0.00007 | EPA508 | 0.00007 | 2/21/91 |
| 2364 | Dieldrin | 16154 | | <0.00001 | EPA508 | 0.00001 | 2/21/91 |
| 2440 | Dicamba | 16154 | | <0.00001 | EPA515 | 0.00001 | 2/21/91 |
| 2959 | Chlordane | 16154 | | <0.00001 | EPA508 | 0.00001 | 2/21/91 |
| 9114 | Pentachlorophenol | 16154 | | <0.005 | EPA515 | 0.005 | 2/14/91 |

Comments:

Unregulated Base Neutral Extractable Analysis
17-550.410(3)
(PWS036)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2042 | Hexachlorocyclopentadie | 16154 | | <0.001 | EPA508 | 0.001 | 2/21/91 |
| 2063 | Dioxin | 16154 | | <0.00001 | EPA613 | 0.00001 | 2/21/91 |
| 2262 | Isophorone | 16154 | | <0.001 | EPA609 | 0.001 | 2/14/91 |
| 2270 | 2,4-dinitrotoluene | 16154 | | <0.001 | EPA609 | 0.001 | 2/14/91 |
| 2282 | Dimethylphthalate | 16154 | | <0.001 | EPA606 | 0.001 | 2/14/91 |
| 2284 | Diethylphthalate | 16154 | | <0.001 | EPA606 | 0.001 | 2/14/91 |
| 2290 | Di-n-butylphthalate | 16154 | | <0.001 | EPA606 | 0.001 | 2/14/91 |
| 2294 | Butyl benzyl phthalate | 16154 | | <0.001 | EPA606 | 0.001 | 2/14/91 |
| 2298 | Bis(2-ethylhexyl)phthal | 16154 | | <0.001 | EPA606 | 0.001 | 2/14/91 |
| 2378 | 1,2,4-trichlorobenzene | 16154 | | <0.001 | EPA612 | 0.001 | 2/14/91 |
| 2388 | PCB-1016 | 16154 | | <0.0001 | EPA505 | 0.0001 | 2/21/91 |
| 2390 | PCB-1221 | 16154 | | <0.0001 | EPA505 | 0.0001 | 2/21/91 |
| 2392 | PCB-1232 | 16154 | | <0.0001 | EPA505 | 0.0001 | 2/21/91 |
| 2394 | PCB-1242 | 16154 | | <0.0001 | EPA505 | 0.0001 | 2/21/91 |
| 2396 | PCB-1248 | 16154 | | <0.0001 | EPA505 | 0.0001 | 2/21/91 |
| 2398 | PCB-1254 | 16154 | | <0.0001 | EPA505 | 0.0001 | 2/21/91 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 2400 | PCB-1260 | 16154 | | <0.0001 | EPA505 | 0.0001 | 2/21/91 |
| 9089 | Dioctylphthalate | 16154 | | <0.001 | EPA606 | 0.001 | 2/14/91 |

Comments:

Unregulated Acid Extractable Analysis
17-550.410(4)
(PWS037)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 9108 | 2-chlorophenol | 16154 | | <0.001 | EPA604 | 0.001 | 2/14/91 |
| 9112 | 2-methyl-4,6-dinitophe | 16154 | | <0.001 | EPA604 | 0.001 | 2/14/91 |
| 9115 | Phenol | 16154 | | <0.001 | EPA604 | 0.001 | 2/14/91 |
| 9116 | 2,4,6-trichlorophenol | 16154 | | <0.001 | EPA604 | 0.001 | 2/14/91 |

Comments:

To: Jim Meyer, DEP

RE: 2nd Quarter 1991 VOC, analysis results.

Dear Mr. Meyer,

Enclosed are copies of our 2nd Quarter 1991 VOC analysis results. As discussed in our earlier conversation with you, we grouped our wells for this procedure. The grouping was as follows:

| SAMPLE # | PLANTS INCLUDED IN SAMPLE | | ID. # |
|---|---|---|---|
| #1 | Interlachen Lakes Estates | #470 | 2540545 |
| | Park Manor | #444 | 2540873 |
| | Silver Lake Oaks | #473 | 2544258 |
| #2 | River Park #1 | #439[1] | 2540962 |
| | River Park #2 | #439[2] | 2540963 |
| | River Park #3 | #439[3] | 2540964 |
| | Woodlore | #446 | 2541280 |
| #3 | Ponona Park | #443 | 2540905 |
| | Hermits Cove | #438 | 2540482 |
| | Palm Port | #440 | 2540865 |
| | River Grove | #442 | 2540959 |
| #4 | Beechers Point | #472 | 2540070 |
| | Welaka Mobile Home Park | #447 | 2541242 |
| | Saratoga Harbor | #448 | 2541008 |
| | St. Johns Highlands | #471 | 2540489 |

If you have any questions, please call either Jerry Boyd or myself at (904)649-4141.

Thank you,

Paul D. Thompson
Lead operator, Putnam County
5331 Crescent

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU
PO Box 458
PomonaPrk.FL 32181

Date Reported: Apr29 1991
PO Number : P91029
PO Number SSU Serv.
FDHRS Lab# : 83139
FDER Lab# : ER8018
NCDEHNR Lab# : 29
SCDHEC Lab# : 96019

For: 2
Date Received: Apr17 1991 Lab Number : 16690

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16690 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 98.6 | 7.34 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 105 | 5.74 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 100 | 3.53 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 100 | 3.53 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 107 | 5.79 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 102 | 3.96 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 103 | 1.43 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 102 | 8.39 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 95.4 | 3.99 | <0.001 |
| Benzene | mg/L | 0.001 | 103 | 2.23 | <0.001 |

Data Release Authorization

Sample integrity and reliability certified by Lab personnel prior to analysis. Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director



Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P. O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984
FAX (407) 260-6110

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number:_____
Public Water System Name ___Wooten___
Public Water System Type (check one):
( )Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyz: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___: Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable___;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number 16690
Sample Location (be specific): _____
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
( )Raw ( )Well ( )Resampl
( )Special_____
Sampler Name, Title Phone:_____
_____

**ANALYSIS INFORMATION**
Extraction Date ___/___/____
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTED Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___: Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable___;

I do HEREBY CERTIFY that all data submitted are correct.

Signature:_____

Name Dr Jefferson S Flowers

Title Technical Director

Laboratory Flowers Chemical Laboratories,Inc.

Date 4/27/91

Mail Results to the Appropriate DER or ACPHU Office:
_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 06/01/8 () Satisfactory () Unsatisfactory

Volatile Organic Analysis
17-550.310(2)(d)
(PWS029)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 16690 | .00002 | <.000005 | EPA504.1 | .000005 | 4/26/91 |
| 2969 | Para-dichlorobenzene | 16690 | .075 | <0.001 | EPA502.2 | 0.001 | 4/25/91 |
| 2976 | Vinyl chloride | 16690 | 0.001 | <0.001 | EPA502.2 | 0.001 | 4/25/91 |
| 2977 | 1,1-dichloroethene | 16690 | 0.007 | <0.001 | EPA502.2 | 0.001 | 4/25/91 |
| 2980 | 1,2-dichloroethane | 16690 | 0.003 | <0.001 | EPA502.2 | 0.001 | 4/25/91 |
| 2981 | 1,1,1-trichloroethane | 16690 | 0.2 | <0.001 | EPA502.2 | 0.001 | 4/25/91 |
| 2982 | Carbon tetrachloride | 16690 | 0.003 | <0.001 | EPA502.2 | 0.001 | 4/25/91 |
| 2984 | Trichloroethene | 16690 | 0.003 | <0.001 | EPA502.2 | 0.001 | 4/25/91 |
| 2987 | Tetrachloroethene | 16690 | 0.003 | <0.001 | EPA502.2 | 0.001 | 4/25/91 |
| 2990 | Benzene | 16690 | 0.001 | <0.001 | EPA502.2 | 0.001 | 4/25/91 |

Comments:

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:
Southern States
PO Box 458
PomonaPk,FL 32181

Date Reported: May10 1991
PO Number: 22639
PO Number N/A
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WATER SAMPLE
Date Received: Apr27 1991 Lab Number : 16779

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16779 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | 0.000005 | 86.8 | 12.6 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 107 | 1.01 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 106 | 8.32 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 106 | 8.32 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 112 | 2.79 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 117 | 8.14 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 118 | 8.20 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 115 | 5.11 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 111 | 3.45 | <0.001 |
| Benzene | mg/L | 0.001 | 109 | 5.61 | <0.001 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director

Page 1 of 1

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P.O. BOX 150 597
ALTAMONTE SPRINGS
FLORIDA 32715 0597
BUS (407) 339 4984
FAX (407) 260 6190

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number:_____
Public Water System Name Wooten
Public Water System Type (check one):
( )Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyz: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;
Subcontracted Lab Certification Number (If any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY):
Laboratory Sample Number 16779
Sample Location (be specific): _____
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
( )Raw ( )Well ( )Resample
( )Special_____
Sampler Name, Title Phone:_____
_____

**ANALYSIS INFORMATION**
Extraction Date ___/___/____
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTEL Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature:_____

Name Dr. Jefferson S Flowers

Title Technical Director

Laboratory Flowers Chemical Laboratories,Inc.

Date 5/9/91

Mail Results to the
Appropriate DER or ACPHU Office:
_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 06/01/8 () Satisfactory () Unsatisfactory

Volatile Organic Analysis
17-550.310(2)(d)
(PWS029)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 16779 | .00002 | <.000005 | EPA504.1 | .000005 | 5/7/91 |
| 2969 | Para-dichlorobenzene | 16779 | .075 | <0.001 | EPA502.2 | 0.001 | 5/8/91 |
| 2976 | Vinyl chloride | 16779 | 0.001 | <0.001 | EPA502.2 | 0.001 | 5/8/91 |
| 2977 | 1,1-dichloroethene | 16779 | 0.007 | <0.001 | EPA502.2 | 0.001 | 5/8/91 |
| 2980 | 1,2-dichloroethane | 16779 | 0.003 | <0.001 | EPA502.2 | 0.001 | 5/8/91 |
| 2981 | 1,1,1-trichloroethane | 16779 | 0.2 | <0.001 | EPA502.2 | 0.001 | 5/8/91 |
| 2982 | Carbon tetrachloride | 16779 | 0.003 | <0.001 | EPA502.2 | 0.001 | 5/8/91 |
| 2984 | Trichloroethene | 16779 | 0.003 | <0.001 | EPA502.2 | 0.001 | 5/8/91 |
| 2987 | Tetrachloroethene | 16779 | 0.003 | <0.001 | EPA502.2 | 0.001 | 5/8/91 |
| 2990 | Benzene | 16779 | 0.001 | <0.001 | EPA502.2 | 0.001 | 5/8/91 |

Comments:

13-1

ANALYTICAL & CONSULTING CHEMISTS'
CHAIN OF CUSTODY RECORD
DRINKING WATER 17-299

FDER Lab
FDHRS Lab
NCDEHM Lab
SCDHEC Lab

| (1) Client | (2) Address | (3) Phone |
|---|---|---|
| SSU SERVICES | P.O. BOX 4[illegible] 32181 | (904) 649-4143 |
| (4) Public Drinking Water ID # | (5) Public Water System Name: | |
| (6) Project # | (8) Public Water System Type | |
| (7) PO# | (X) Community ( ) Non-Community ( ) Special Non-Community | |

| Preservative | | | Plastic Containers | | | | | | Glass Containers | | | | | | | NOTES: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | HNO3 | ZnOAC/NaOH | 60ml | 125ml | 250ml | 500ml | 1L | Whirl-Pak Bag | 40ml | 250ml | 500ml | 1L | 2L | 4L | | (9) Turn Around Time: |
| | | | | | | | | | | | | | | | | 10 Working Days: |
| | | | | | | | | | | | | | | | | 5 Working Days : |
| | | | | | | | | | | | | | | | | 3 Working Days : |
| | | | | | | | | | | | | | | | | 1 Working Day : |
| | | | | | | | | | | | | | | | | Other : |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |

| (11) Kit Relinquished: | (10) Date | (12) Kit Received | (13) Date |
|---|---|---|---|
| | (14) Time | | (15) Time |

SAMPLE INFORMATION: SAMPLE DATE: MONTH 4 DATE 25 YEAR 91
SAMPLE TYPE ( check all applicable): (-) check, ( ) regular distribution
( ) composite, ( ) clearance, ( ) max residence time, ( ) plant tap,
( ) raw, (X) well, ( ) resample ( ) special
SAMPLER'S NAME: PAM D. Thompson TITLE: OPERATOR IV PHONE: (904) 649-4143
SAMPLER'S SIGNATURE: [signature]
NOTES:

(17) Parameter Group(s) Analyzed: Turbidity__; Inorganic__; Trihalomethane__; Volatile Organic X
Organic Chemical__; Secondary Chemical__; Radiological__; Unregulated Organic Purgeable__;
Unregulated Organic Pesticide__; Unregulated Base (Neutral Extractable__; Unregulated Acid Extractable__;

| (18) Laboratory Number | | (19) Client Sample Identification |
|---|---|---|
| 16779 | #1 | 2540963 River Park (1) |
| | #2 | 2540962 |
| | #3 | 2541280 Wooten |
| | #4 | 2541280 |
| | #5 | 2540964 |
| | #6 | 2540964 |
| | #7 | 2540964 |
| | #8 | 2540964 River Park (3) |
| | #9 | 2540964 |
| | #10 | 2540964 |

| | | Date | Time |
|---|---|---|---|
| (16) Collectors Signature: | [signature] | 4-25-91 | 9:30 |
| (17) Transporters Signature: | | | |
| (18) Lab Acceptance By: | [signature] | 4-25-91 | 1:10 |

OVER FOR INSTRUCTIONS FOR COMPLETION

ORLANDO LABORATORIES INC.

P.O. Box 149127 • Orlando, Florida 32814

REPORT OF ANALYSIS

Southern States Utilities
P.O. Box 458
Pamona Park, FL 32181

Attn: Paul Thompson

Work Order # : 91-07-475
Date Received: 07/31/91
Date Reported: 08/06/91
OLI Contact: L_BALTZLEY

Work ID: Southern States Utilities
Samples collected by: Client
Total Samples: 2

| SAMPLE IDENTIFICATION | TEST CODES and NAMES used on this report |
|---|---|
| 01 Composite #1 | 1COMP Composite Data For Samples |
| 02 Method Blank | PWS028 Volatile Organic Analysis |

OLI Florida Department of Health & Rehabilitative Service Identification Numbers are:
Drinking Water Certification Number 83141, Environmental Certification Number E83033

Respectfully Submitted,
ORLANDO LABORATORIES, INC.

John Hobbs
LABORATORY DIRECTOR

Eric Halarek
QUALITY CONTROL

[illegible] LABORATORIES, INC.
Received: 07/31/91

REPORT OF ANALYSIS
Results by Sample

Work Order # [illegible]

SAMPLE ID Composite #1
DATE COLLECTED not specified
TEST NAME Composite Data For Samples

SAMPLE# [illegible]
MATRIX WATER
TEST CODE [illegible]

NUMBER OF SAMPLES COMPOSITED:

| | Sample Identification | Date and time |
|---|---|---|
| #1 | River Park #1 | 07/30/91 11:30 |
| #2 | River Park #2 | 07/30/91 11:30 |
| #3 | River Park #3 | 07/30/91 11:30 |
| #4 | Wootens | 07/30/91 11:30 |
| #5 | | |
| #6 | | |
| #7 | | |
| #8 | | |
| #9 | | |
| #10 | | |
| #11 | | |
| #12 | | |

[illegible] LABORATORIES, INC.
Received: 07/31/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91[illegible]

SAMPLE ID Composite #1
DATE COLLECTED not specified
TEST NAME Volatile Organic Analysis

SAMPLE# 01A
MATRIX WATER
TEST CODE EW[illegible]28

VOLATILE ORGANIC ANALYSIS
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | | | <0.00002 | EPA 504 | 0.00002 | 07/31/91 |
| 2969 | Para-dichlorobenzene | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2976 | Vinyl Chloride | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2977 | 1,1-Dichloroethene | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2980 | 1,2-Dichloroethane | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2981 | 1,1,1-trichloroethane | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2982 | Carbon Tetrachloride | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2984 | Trichloroethene | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2987 | Tetrachloroethene | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2990 | Benzene | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |

Comments:

[illegible] LABORATORIES,INC.
Received: 07/31/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 31-07 [illegible]

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME Volatile Organic Analysis

SAMPLE# 020
MATRIX METHOD BLANK
TEST CODE PWS 28

VOLATILE ORGANIC ANALYSIS
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | | | <0.00002 | EPA 504 | 0.00002 | 08/01/91 |
| 2969 | Para-dichlorobenzene | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2976 | Vinyl Chloride | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2977 | 1,1-Dichloroethene | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2980 | 1,2-Dichloroethane | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2981 | 1,1,1-trichloroethane | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2982 | Carbon Tetrachloride | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2984 | Trichloroethene | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2987 | Tetrachloroethene | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |
| 2990 | Benzene | | | <0.0005 | EPA 524 | 0.0005 | 07/31/91 |

Comments:

ORLANDO LABORATORIES, INC.

GC ORGANICS

# MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 08-05-1991

LAB SAMPLE # : 9107-147-01A
ANALYSIS DATE : 08/01/91

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | | RPD |
|---|---|---|---|---|---|---|---|---|
| Ethylene Dibromide | 100 | 0 | 54 | 54 | 47 | 47 | * | 14 |
| Dibromochloropropane | 100 | 0 | 67 | 67 | 59 | 59 | * | 13 |

COMMENTS : * = parameter outside QC limits.

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| Ethylene Dibromide | 50 | 100 | 30 | 35 | 100 | 30 |
| Dibromochloropropane | 65 | 110 | 30 | 60 | 110 | 30 |

ORLANDO LABORATORIES INC.

GC/MS VOLATILE ORGANICS

MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 08-01-1991

LAB SAMPLE # : 9107484-2 524
ANALYSIS DATE : 7/31/91

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| 1,1-dichloroethene | 50 | 0 | 35 | 70 | 39 | 78 | 11 |
| trichloroethene | 50 | 0 | 53 | 106 | 51 | 102 | 4 |
| benzene | 50 | 0 | 50 | 100 | 48 | 96 | 4 |
| toluene | 50 | 0 | 49 | 98 | 49 | 98 | 0 |
| chlorobenzene | 50 | 0 | 47 | 94 | 47 | 94 | 0 |

COMMENTS :

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| 1,1-dichloroethene | 64 | 137 | 19 | 50 | 142 | 22 |
| trichloroethene | 76 | 124 | 24 | 70 | 128 | 25 |
| benzene | 77 | 113 | 25 | 64 | 134 | 26 |
| toluene | 65 | 125 | 20 | 69 | 132 | 24 |
| chlorobenzene | 71 | 123 | 24 | 72 | 124 | 20 |

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

**PUBLIC WATER SYSTEM INFORMATION**

Public Water System I.D. Number: _____

Public Water System Name: _____

Public Water System Type (check one):

( ) Community ( ) Non-community ( ) Special Non-community

**LABORATORY CERTIFICATION INFORMATION**

Lab Certification Number: 83141

Parameter Group(s) Analyzed: Volatile Organics Analysis

Subcontracted Lab Certification Number (if any): N/A

**SAMPLE INFORMATION**

Sample Date (MMDDYY): 07/30/91

Laboratory Sample Number: 91-07-475-01A

Sample Location: _____

Sample Type (check all applicable):

( ) Check ( ) Regular Distribution (X) Composite

( ) Clearance ( ) Maximum Residence Time ( ) Plant Tap

( ) Raw ( ) Well ( ) Re-sample

( ) Special _____

Sampler Name, Title, Phone: _____

**ANALYSIS INFORMATION**

Extraction Date (MMDDYY): 08/01/91 (504)

Laboratory Contact: Eric Malarek

Re-sample Requested? (check one): ( ) Yes ( ) No

ANALYSES SUBMITTED: Turbidity___;Inorganic___;Trihalomethane___;
Volatile Organic___;Organic Chemical___;Secondary Chemical___;
Radiological___;Unregulated Organic Purgeable___: Unregulated
Organic Pesticides___;Unregulated Base Neutral Extractable___:
Unregulated Acid Extractable___; (Check all analyses which apply.)

I do HEARBY CERTIFY that all data submitted is correct.

Signature _____

Name Eric Malarek

Title Quality Control Officer

Laboratory Orlando Laboratories, Inc.

Date _____

**Mail Results to the Appropriate DER or ACPHU Office:**

DER/ACPHU Reviewing Official

_____

Sample Interpretation (check one)

( ) Satisfactory ( ) Unsatisfactory

**ORLANDO LABORATORIES, INC.**
P.O. Box 149127, Orlando, FL 32814
(407) 896-6645 FAX (407) 896-6588

# CHAIN-OF-CUSTODY RECORD

(INSTRUCTIONS ON BACK)

Page 2 of 5

| 1 ADDRESS (CITY, STATE, ZIP) | 2 CONTACT PERSON/PHONE # INVOICE | OLI WORK ORDER # (LAB USE) |
|---|---|---|
| SSU SERVICES 1000 COLOR PLACE APOPKA FL | | 9107475 |
| **4 ORIGINAL REPORT TO (COMPANY AND INDIVIDUAL) / ADDRESS (CITY, STATE, ZIP)** | **5 CONTACT PERSON/PHONE # REPORT** | **6 RB NUMBER (LAB USE)** |
| SSU SERVICES P.O. BOX 458 POMONA PARK FL 32181 | PAUL O. THOMASON | 4645 |
| **7 (OPTIONAL) ADDITIONAL REPORTS SENT TO / ADDRESS (CITY, STATE, ZIP)** | | |
| **8 CLIENT PROJECT NAME** | **9 CLIENT PROJECT #** | |

| 10 SAMPLE IDENTIFICATION | 11 DATE/TIME | 12 COMP | GRAB | WATER | SOIL | OTHER | 13 SAMPLE DESCRIPTION | 17 NUMBER OF CONTAINERS | 18 REQUESTED ANALYSIS: VOC | 19 REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| #2540962 RIVER PARK #1 | 7/30/91 11:30 | | ✓ | | | | WELLS | 4 | ✓ | |
| #2540963 RIVER PARK #2 | 7/30/91 11:30 | | ✓ | | | | WELLS | 4 | ✓ | |
| #2540964 RIVER PARK #3 | 7/30/91 11:30 | | ✓ | | | | WELLS | 8 | ✓ | |
| WOOTENS | 7/30/91 11:30 | | ✓ | | | | WELLS | 4 | ✓ | |

| TRANSFER NUMBER | 14 RELINQUISHED BY | 15 DATE/TIME | 16 ACCEPTED BY |
|---|---|---|---|
| 1st | | 7/29 1330 | 7/30/91 8:00A |
| 2nd | | 7/31 1100 | |
| 3rd | | | |

20 ADDITIONAL REMARKS

21 COOLER #'s

22 SAMPLER'S SIGNATURE

ORIGINAL - LAB
YELLOW - FILE
PINK - CLIENT

1221

ORLANDO LABORATORIES INC

P.O. Box 149127 • Orlando, Florida 32814

REPORT OF ANALYSIS

Southern States Utilities
P.O. Box 458
Pamona Park, FL 32181

Attn: Paul Thompson

Work Order # : 91-10-435
Date Received: 10/30/91
Date Reported: 11/13/91
OLI Contact: J_BEATO

Work ID: SSU Services
Samples collected by: Client
Total Samples: 2

| SAMPLE IDENTIFICATION | TEST CODES and NAMES used on this report |
|---|---|
| 01 Composite #1 | 1COMP Composite Data For Samples |
| 02 Method Blank | PWS028 Volatile Organic Analysis |

Copy of invoice to:

Jerry Boyd
Southern States Utilities
P.O. Box 458
Pamona Park, FL 32181

OLI Florida Department of Health & Rehabilitative Service Identification Numbers are:
Drinking Water Certification Number 83141, Environmental Certification Number E83033

Respectfully Submitted,
ORLANDO LABORATORIES, INC.

John Hobbs
LABORATORY DIRECTOR

Eric Malarek
QUALITY CONTROL

ORLANDO LABORATORIES, INC.
Received: 10/30/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91 10 1 5

SAMPLE ID Composite #1
DATE COLLECTED not specified
TEST NAME Composite Data For Samples

SAMPLE# 010
MATRIX WATER
TEST CODE ILUPC

NUMBER OF SAMPLES COMPOSITED:

| | Sample Identification | Date and time |
|---|---|---|
| #1 | WOOTENS (1) | 10/30/91 12:10 |
| #2 | RIVER PARK #1 (2) | 10/30/91 11:40 |
| #3 | RIVER PARK #3 (3-5) | 10/30/91 12:40 |
| #4 | | |
| #5 | | |
| #6 | | |
| #7 | | |
| #8 | | |
| #9 | | |
| #10 | | |
| #11 | | |
| #12 | | |

ORLANDO LABORATORIES,INC.
Received: 10/30/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91 [illegible] 5

SAMPLE ID Composite #1
DATE COLLECTED not specified
TEST NAME Volatile Organic Analysis

SAMPLE# 01A
MATRIX WATER
TEST CODE PWS028

VOLATILE ORGANIC ANALYSIS
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | | | <0.00002 | EPA 504 | 0.00002 | 11/05/91 |
| 2969 | Para-dichlorobenzene | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2976 | Vinyl Chloride | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2977 | 1,1-Dichloroethene | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2980 | 1,2-Dichloroethane | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2981 | 1,1,1-trichloroethane | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2982 | Carbon Tetrachloride | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2984 | Trichloroethene | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2987 | Tetrachloroethene | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2990 | Benzene | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |

Comments:

[illegible] LABORATORIES, INC.
Received: 10/30/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-10-1[illegible]

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME Volatile Organic Analysis

SAMPLE# 020
MATRIX METHOD BLANK
TEST CODE PW[illegible]

VOLATILE ORGANIC ANALYSIS
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | | | <0.00002 | EPA 504 | 0.00002 | 11/05/91 |
| 2969 | Para-dichlorobenzene | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2976 | Vinyl Chloride | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2977 | 1,1-Dichloroethene | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2980 | 1,2-Dichloroethane | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2981 | 1,1,1-trichloroethane | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2982 | Carbon Tetrachloride | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2984 | Trichloroethene | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2987 | Tetrachloroethene | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |
| 2990 | Benzene | | | <0.0005 | EPA 524 | 0.0005 | 11/01/91 |

Comments:

GC ORGANICS

# MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 11-11-1991

LAB SAMPLE # : 9110433-01A
ANALYSIS DATE : 11/05/91

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| Ethylene Dibromide | 100 | 0 | 72 | 72 | 69 | 69 | 4 |
| Dibromochloropropane | 100 | 0 | 77 | 77 | 78 | 78 | 1 |

COMMENTS :

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| Ethylene Dibromide | 50 | 110 | 30 | 35 | 100 | 30 |
| Dibromochloropropane | 65 | 110 | 30 | 60 | 110 | 30 |

ORLANDO LABORATORIES INC.

GC/MS VOLATILE ORGANICS

MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 11-05-1991

LAB SAMPLE # : 9110445-3
ANALYSIS DATE : 11/1/91

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| 1,1-dichloroethene | 50 | 0 | 58 | 116 | 53 | 106 | 9 |
| trichloroethene | 50 | 0 | 53 | 106 | 52 | 104 | 2 |
| benzene | 50 | 0 | 59 | 118 * | 55 | 110 | 7 |
| toluene | 50 | 0 | 50 | 100 | 48 | 96 | 4 |
| chlorobenzene | 50 | 0 | 51 | 102 | 50 | 100 | 2 |

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| 1,1-dichloroethene | 64 | 137 | 19 | 50 | 142 | 22 |
| trichloroethene | 76 | 124 | 24 | 70 | 128 | 25 |
| benzene | 77 | 113 | 25 | 64 | 134 | 26 |
| toluene | 65 | 125 | 20 | 69 | 132 | 24 |
| chlorobenzene | 71 | 123 | 24 | 72 | 124 | 20 |

*Note: Parameter outside QC limits due to matrix interference.

## PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 2541280
Public Water System Name: Wootens
Public Water System Type (check one):
(X) Community ( ) Non-Community ( ) Special Non-Community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: 83141
Parameter Group(s) Analyzed: Volatile Organic Analysis

Subcontract Lab Certification Number (if any): N/A

**SAMPLE INFORMATION**
Sample Date (MMDDYY): 10/30/91
Laboratory Sample Number: 91-10-435
Sample Location: Well
Sample Type (check all applicable):
( ) Check ( ) Regular Distribution ( ) Composite
( ) Clearance ( ) Maximum Residue Time ( ) Plant Tap
( ) Raw (X) Well ( ) Re-sample
( ) Special
Sampler Name, Title, Phone: Paul D. Thompson
Lead Operator, Putnam County SSU Services
904-649-4143

**ANALYSIS INFORMATION**
Extraction Date (MMDDYY): 10/31/91 (504)
Laboratory Contact: Eric Malarek
Re-sample Requested? (check one): ( ) Yes ( ) No
ANALYSES SUBMITTED: Turbidity____; Inorganic____; Trihalomethane____;
Volatile Organic____; Organic Chemical____; Secondary Chemical____;
Radiological____; Unregulated Organic Purgeable____; Unregulated
Organic Pesticides____; Unregulated Base Neutral Extractable____;
Unregulated Acid Extractable____; (Check all analyses which apply.)

I do HEREBY CERTIFY that all data submitted is correct.

Signature Eric Malarek

Name Eric Malarek

Title Quality Control Officer

Laboratory Orlando Laboratories, Inc.

Date 11/13/91

**Mail Results to the Appropriate DER or ACPHU Office:**

DER/ACPHU Reviewing Official

Sample Interpretation (check one)
( )Satisfactory ( ) Unsatisfactory

ORLANDO LABORATORIES, INC
P.O. Box 1489 Orlando, FL 32614
407 896-6641 FAX (407) 896-6588

# CHAIN-OF-CUSTODY RECORD

INSTRUCTIONS ON BACK

Page ___ of ___

| | |
|---|---|
| SSJ SERVICES P.O. BOX 458 POMONA PARK FL 32181 | 911C435 |
| ORIGINAL REPORT TO (COMPANY AND INDIVIDUAL) / ADDRESS (CITY STATE ZIP): SAME | PAUL O. THOMPSON / 5587 |
| (OPTIONAL) ADDITIONAL REPORTS SENT TO / ADDRESS (CITY STATE ZIP): | |
| CLIENT PROJECT NAME: | ~~CLIENT PROJECT #~~ PO # L114422 |

| | SAMPLE IDENTIFICATION | DATE/TIME | COMP | GRAB | JAR | VOA | OTHER | SAMPLE DESCRIPTION | NUMBER OF CONTAINERS | REQUESTED ANALYSIS VOC | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | WOOTENS | 12:10 / 11/30/93 | | ✓ | ✓ | | | WELL | 4 | ✓ | |
| 2 | RIVER PARK #1 | 11:40 / 11/30/93 | | ✓ | ✓ | | | WELL | 4 | ✓ | |
| 545 | RIVER PARK #3 | 12:30 / 11/30/93 | | ✓ | ✓ | | | WELLS | 12 | ✓ | |

| TRANSFER NUMBER | RELINQUISHED BY | DATE/TIME | ACCEPTED BY |
|---|---|---|---|
| 1st | [signature] | 12/28/1440 | [signature] |
| 2nd | [signature] | 1030 1630 | [signature] |
| 3rd | | | |

ADDITIONAL REMARKS

COOLER #s

SAMPLER'S SIGNATURE

ORIGINAL - LAB
YELLOW - FILE
PINK - CLIENT

ORLANDO LABORATORIES,INC.
Received: 07/31/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-07-478

SAMPLE ID Wootens #2541280
DATE COLLECTED 07/30/91 11:30:00
TEST NAME Turbidity Analysis

SAMPLE# 01A
MATRIX WATER
TEST CODE PWS026

TURBIDITY ANALYSIS
17-550.310(3)
(PWS026)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(NTU) | Analytical Method | Analysis Date |
|---|---|---|---|---|---|---|
| 0100 | Turbidity | | | 2.8 | EPA 180.1 | 08/01/91 |

Comments:

ORLANDO LABORATORIES, INC.
Received: 07/31/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-07-478

SAMPLE ID Mootens #2541280
DATE COLLECTED 07/30/91 11:30:00
TEST NAME Organic Chemical Analysis

SAMPLE# 01A
MATRIX WATER
TEST CODE PWS029

ORGANIC CHEMICAL ANALYSIS
17-550.310(2)(a)(b)
(PWS029)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|---|
| 2005 | Endrin | | | <0.00010 | | EPA 608 | 0.00010 | 08/02/91 |
| 2010 | Lindane | | | <0.00005 | | EPA 608 | 0.00005 | 08/02/91 |
| 2015 | Methoxychlor | | | <0.00050 | | EPA 608 | 0.00050 | 08/02/91 |
| 2020 | Toxaphene | | | <0.00100 | | EPA 608 | 0.00100 | 08/02/91 |
| 2105 | 2,4-D | | | <0.0020 | | EPA 615 | 0.0020 | 08/05/91 |
| 2110 | 2,4,5-TP (Silvex) | | | <0.0010 | | EPA 615 | 0.0010 | 08/05/91 |

Comments:

ORLANDO LABORATORIES,INC.
Received: 07/31/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-07-478

SAMPLE ID Hootens #2541280
DATE COLLECTED 07/30/91 11:30:00
TEST NAME Inorganic Analysis

SAMPLE# 01A
MATRIX WATER
TEST CODE PWS030

INORGANIC ANALYSIS
17-550.310(1)
(PWS030)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1005 | Arsenic | | | <0.010 | EPA 206.2 | 0.010 | 08/02/91 |
| 1010 | Barium | | | <0.100 | EPA 200.7 | 0.100 | 07/31/91 |
| 1015 | Cadmium | | | <0.005 | EPA 213.2 | 0.005 | 07/31/91 |
| 1020 | Chromium | | | <0.010 | EPA 218.2 | 0.010 | 07/31/91 |
| 1025 | Fluoride | | | 0.202 | EPA 340.2 | 0.1 | 08/03/91 |
| 1030 | Lead | | | <0.010 | EPA 239.2 | 0.010 | 08/04/91 |
| 1035 | Mercury | | | <0.0005 | EPA 245.1 | 0.0005 | 08/08/91 |
| 1040 | Nitrate (as N) | | | <0.03 | EPA 352.2 | 0.03 | 08/02/91 |
| 1045 | Selenium | | | <0.005 | EPA 270.2 | 0.005 | 08/07/91 |
| 1050 | Silver | | | <0.010 | EPA 272.2 | 0.010 | 08/04/91 |
| 1052 | Sodium | | | 7.60 | EPA 200.7 | 0.001 | 07/31/91 |

Comments:

ORLANDO LABORATORIES,INC.
Received: 07/31/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-07-478

SAMPLE ID Kootens #2541280
DATE COLLECTED 07/30/91 11:30:00
TEST NAME Secondary Chem. Analysis

SAMPLE# 01A
MATRIX WATER
TEST CODE PWS031

SECONDARY CHEMICAL ANALYSIS
17-550.320
(PWS031)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1016 | Calcium | | | 79.0 | EPA 200.7 | 0.1 | 07/31/91 |
| 1017 | Chloride | | | 23.1 | SM 407 | 1.0 | 08/02/91 |
| 1019 | Carbonate CaCO3 | | | NOT ANALYZED | | | |
| 1021 | Hydroxide CaCO3 | | | NOT ANALYZED | | | |
| 1022 | Copper | | | <0.010 | EPA 200.7 | 0.010 | 07/31/91 |
| 1023 | Bicarbonate CaCO3 | | | NOT ANALYZED | | | |
| 1025 | Fluoride | | | 0.202 | EPA 340.2 | 0.1 | 08/03/91 |
| 1026 | Bicarbonate HCO3 | | | NOT ANALYZED | | | |
| 1027 | Hydrogen Sulfide | | | NOT ANALYZED | | | |
| 1028 | Iron | | | 0.650 | EPA 200.7 | 0.100 | 07/31/91 |
| 1031 | Magnesium | | | 12.0 | EPA 200.7 | 0.1 | 07/31/91 |
| 1032 | Manganese | | | <0.030 | EPA 200.7 | 0.030 | 07/31/91 |
| 1055 | Sulfate | | | <1.0 | EPA 375.4 | 1.0 | 08/01/91 |
| 1095 | Zinc | | | <0.050 | EPA 200.7 | 0.050 | 07/31/91 |
| 1901 | Carbon Dioxide | | | 9.5 | SM 406 C | 1.0 | 08/06/91 |
| 1905 | Color (color units) | | | 20 | EPA 270.2 | 5 PCU | 08/01/91 |
| 1915 | Total Hardness | | | 250.0 | EPA 200.7 | 0.050 | 07/31/91 |
| 1917 | NCH as CaCO3 | | | NOT ANALYZED | | | |
| 1920 | Odor | | | 4 | EPA 140.1 | 1 | 08/01/91 |
| 1924 | Field pH (units) | | | NOT ANALYZED | | | |
| 1925 | Lab pH (units) | | | 7.64 | EPA 150.1 | N/A | 08/01/91 |
| 1926 | Field Conductivity | | | NOT ANALYZED | | | |

ORLANDO LABORATORIES,INC.
Received: 07/31/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-07-478
Continued From Above

SAMPLE ID Hootens #Z541280
DATE COLLECTED 07/30/91 11:30:00
TEST NAME Secondary Chem. Analysis

SAMPLE# 01A
MATRIX WATER
TEST CODE PWS031

*** Contiued from above***
SECONDARY CHEMICAL ANALYSIS
17-550.320
(PWS031)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1927 | Total Alkalinity | | | 199 | EPA 310.1 | 2.0 | 08/01/91 |
| 1930 | TDS | | | 268 | EPA 160.1 | 1.0 | 08/02/91 |
| 1931 | Phenolphthalein Alk. | | | <2.0 | EPA 310.1 | 2.0 | 08/01/91 |
| 1996 | Field Temp. (C) | | | NOT ANALYZED | | | |
| 1997 | Langlier Index pHs | | | 7.3 | CALC | N/A | 08/06/91 |
| 1998 | Saturation Index | | | 0.3 | CALC | N/A | 08/06/91 |
| 1999 | Stability Index | | | 7.0 | CALC | N/A | 08/06/91 |
| 2909 | Foaming Agents | | | <0.10 | EPA 425.1 | 0.1 | 07/31/91 |
| 9996 | Field OO | | | NOT ANALYZED | | | |
| 9997 | Field Chlorine | | | NOT ANALYZED | | | |

Comments:

ORLANDO LABORATORIES,INC.
Received: 07/31/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-07-478

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME Organic Chemical Analysis

SAMPLE# 04A
MATRIX METHOD BLANK
TEST CODE PWS029

ORGANIC CHEMICAL ANALYSIS
17-550.310(2)(a)(b)
(PWS029)

| Parameter ID | Name | Sample Number | Location Code | Analysis Result(mg/l) | | Analytical Method | Det. Lt. Used | Analysis Date |
|---|---|---|---|---|---|---|---|---|
| 2005 | Endrin | | | <0.00010 | | EPA 608 | 0.00010 | 08/02/91 |
| 2010 | Lindane | | | <0.00005 | | EPA 608 | 0.00005 | 08/02/91 |
| 2015 | Methoxychlor | | | <0.00050 | | EPA 608 | 0.00050 | 08/02/91 |
| 2020 | Toxaphene | | | <0.00100 | | EPA 608 | 0.00100 | 08/02/91 |
| 2105 | 2,4-D | | | <0.0020 | | EPA 615 | 0.0020 | 08/05/91 |
| 2110 | 2,4,5-TP (Silvex) | | | <0.0010 | | EPA 615 | 0.0010 | 08/05/91 |

Comments:

ORLANDO LABORATORIES, INC.

GC ORGANICS

# MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 08-09-1991

LAB SAMPLE # : 9108020-02B
ANALYSIS DATE : 08/05/91

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| 2,4,5-TP (silvex) | 100 | 0 | 84 | 84 | 89 | 89 | 6 |

COMMENTS :

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| 2,4,5-TP (silvex) | 53 | 175 | 35 | 50 | 130 | 35 |

ORLANDO LABORATORIES, INC.

GC ORGANICS

# MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 08-04-1991

LAB SAMPLE # : 9102478-0.1A
ANALYSIS DATE : 08/02/91

| COMPOUND | AMOUNT SPIKED | SAMPLE RESULT | MS RESULT | MS % RECOVERY | MSD RESULT | MSD% RECOVERY | RPD |
|---|---|---|---|---|---|---|---|
| GAMMA-BHC (LINDANE) | 100 | 0 | 88 | 88 | 102 | 102 | 15 |
| HEPTACHLOR | 100 | 0 | 94 | 94 | 111 | 111 | 17 |
| ALDRIN | 100 | 0 | 111 | 111 | 117 | 117 | 5 |
| DIELDRIN | 100 | 0 | 108 | 108 | 119 | 119 | 10 |
| ENDRIN | 100 | 0 | 104 | 104 | 114 | 114 | 9 |
| 4,4-DDT | 100 | 0 | 94 | 94 | 106 | 106 | 12 |

COMMENTS :

MATRIX SPIKE QUALITY CONTROL LIMITS

| | WATER | | | SOIL | | |
|---|---|---|---|---|---|---|
| | LOWER | UPPER | RPD | LOWER | UPPER | RPD |
| GAMMA-BHC (LINDANE) | 56 | 123 | 15 | 46 | 127 | 50 |
| HEPTACHLOR | 40 | 131 | 20 | 35 | 130 | 31 |
| ALDRIN | 40 | 120 | 22 | 34 | 132 | 43 |
| DIELDRIN | 52 | 126 | 18 | 31 | 134 | 38 |
| ENDRIN | 56 | 121 | 21 | 42 | 139 | 45 |
| 4,4-DDT | 38 | 127 | 27 | 23 | 134 | 50 |

Southern States Utilities
Attn: Paul Thompson

Report No: 91-07-478
Page No: 20

## QUALITY CONTROL DATA SHEET

| PARAMETER | DUPLICATES % DIFFERENCE | SPIKES % RECOVERY | DATE | ANALYST |
|---|---|---|---|---|
| Turbidity | <1 | N/A | 08/01/91 | RG |
| Color | <1 | N/A | 08/01/91 | RG |
| Odor | <1 | N/A | 08/01/91 | PE |
| pH | 1 | N/A | 08/01/91 | PE |
| MBAS | <1 | 95 | 07/31/91 | JPN |
| Nitrite Nitrogen | <1 | 94 | 07/31/91 | SFC |
| Total Alkalinity | <1 | 97 | 08/01/91 | PE |
| Fluoride | <1 | 113 | 08/03/91 | KH |
| Nitrate Nitrogen | 1 | 108 | 08/02/91 | RAW |
| Chloride | <1 | 111 | 08/02/91 | PE |
| Sulfate | 5 | 105 | 08/01/91 | RG |
| Total Dissolved Solids | 1 | N/A | 08/02/91 | PE |
| Barium | 1 | 105 | 07/31/91 | TWB |
| Cadmium | 3 | 105 | 07/31/91 | TWB |
| Chromium | 1 | 99 | 07/31/91 | TWB |
| Sodium | 1 | 106 | 07/31/91 | TWB |
| Copper | 1 | 105 | 07/31/91 | TWB |
| Iron | 4 | 103 | 07/31/91 | TWB |
| Manganese | 1 | 102 | 07/31/91 | TWB |
| Zinc | 1 | 108 | 07/31/91 | TWB |
| Calcium | 1 | 93 | 07/31/91 | TWB |
| Magnesium | <1 | 108 | 07/31/91 | TWB |
| Lead | 1 | 95 | 08/04/91 | RJW |
| Silver | 1 | 90 | 08/04/91 | RJW |
| Arsenic | 1 | 86 | 08/02/91 | CJP |
| Selenium | 5 | 99 | 08/07/91 | CJP |
| Mercury | <1 | 110 | 08/08/91 | LG |

**ORLANDO LABORATORIES, INC.**
P.O. Box 149127, Orlando FL 32814
(407) 896-6645 FAX (407) 898-6588

# CHAIN-OF-CUSTODY RECORD
(INSTRUCTIONS ON BACK)

Page 5 of 5

| 1 REPORT TO (COMPANY AND INDIVIDUAL) / ADDRESS (CITY, STATE, ZIP) | 2 CONTACT PERSON PHONE # INVOICE | 3 OLV WORK ORDER # (LAB USE) |
|---|---|---|
| SSU SERVICES 1000 COLOR PLACE APOPKA FL | | 9107478 |
| **4 ORIGINAL REPORT TO (COMPANY AND INDIVIDUAL) / ADDRESS (CITY, STATE, ZIP)** | **5 CONTACT PERSON PHONE # REPORT** | **6 RB NUMBER (LAB USE)** |
| SSU SERVICES P.O. BOX 458 POMONA PARK, FL 32181 | PAUL TOMASKO | 4647 |
| **7 (OPTIONAL) ADDITIONAL REPORTS SENT TO / ADDRESS (CITY STATE ZIP)** | | |
| **8 CLIENT PROJECT NAME** | **9 CLIENT PROJECT #** | |

| 10 SAMPLE IDENTIFICATION | 11 DATE/TIME | 12 COMP | GRAB | WATER | SOIL | OTHER | 13 SAMPLE DESCRIPTION | 17 NUMBER OF CONTAINERS | 18 REQUESTED ANALYSIS: PRIMARY NUTRIENTS | SECONDARY NUTRIENTS | TURBIDITY | PRIMARY ORGANICS | REMARKS 19 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WOODLANDS #2541270 | 7/30/91 11:30 | | ✓ | | | | DIST | 7 | ✓ | ✓ | ✓ | ✓ | |
| SARATOGA HARBOR #2541038 | 7/30/91 11:00 | | ✓ | | | | DIST | 7 | ✓ | ✓ | ✓ | ✓ | |
| PARK MANOR #2540873 | 7/30/91 8:00 | | ✓ | | | | DIST | 7 | ✓ | ✓ | ✓ | ✓ | |

| TRANSFER NUMBER | 14 RELINQUISHED BY | 15 DATE/TIME | 16 ACCEPTED BY |
|---|---|---|---|
| 1st | [signature] | 7/30 1210 | [signature] 7/30/91 |
| 2nd | [signature] | 7/31 1100 | [signature] |
| 3rd | | | |

20 ADDITIONAL REMARKS

21 COOLER #'s

22 SAMPLER'S SIGNATURE

ORIGINAL - LAB
YELLOW - FILE
PINK - CLIENT

1239

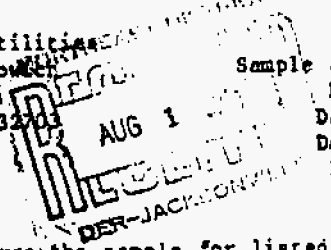
ORLANDO LABORATORIES INC

P.O. Box 19127 • Orlando, Florida 32814 • (407) 896-6645

corrected copy
see file

REPORT OF ANALYSIS

Southern States Utilities
Attn: Aaron Perlowitch
1000 Color Place
Apopka, Florida 32703




Report #: 52432 (5981)
Sample submitted by: Client *
Date sampled: 06-15-88 @ 1515 hrs. *
Date received: 06-16-88
Date reported: 07-07-88
Date revised: 07-29-88
Page 1 of 10

PURPOSE: To analyze the sample for listed parameters
AUTHORIZATION: Sample Identification Form received from client 06-15-88
SAMPLE IDENTIFICATION: Sample submitted and identified by client as: Wooten.
PROCEDURE: EPA METHOD 624

VOC SOC ok

ent 7-27-88

RESULTS, ug/l

| PURGEABLE ORGANICS BY GC/MS | RESULTS |
|---|---|
| Benzene | ND(1) |
| Bromodichloromethane | 4 |
| Bromoform | ND(1) |
| Bromomethane | ND(1) |
| Dibromomethane | ND(1) |
| Chlorobenzene | ND(1) |
| Chloroethane | ND(1) |
| 2-Chloroethylvinyl ether | ND(1) |
| Chloroform | 7 |
| Chloromethane | ND(1) |
| Dibromochloromethane | ND(1) |
| 1,1-Dichloroethane | ND(1) |
| Dichlorobenzene | ND(1) |
| 1,1-Dichloroethene | ND(1) |
| trans-1,2-Dichloroethene | ND(1) |
| 1,2-Dichloropropane | ND(1) |
| cis-1,3-Dichloropropene | ND(1) |
| trans-1,3-Dichloropropene | ND(1) |
| Ethylbenzene | ND(1) |
| Methylene Chloride | ND(1) |

TTHM .011 mg/l ok

* Sampling information based on data supplied by client.
ND = Not detected to the levels in parentheses.

Respectfully submitted,
ORLANDO LABORATORIES, INC.

Martin H. Enos
Laboratory Manager

Quality Control

OLI Florida Department of Health & Rehabilitative Service Identification Number is 83141.

2341280
sample date 6-15-88
lab id 83141 orlando labs

Southern States Utilities
Attn: Aaron Perlowich

Report #: 52432 (5981)
Page 8 of 10

sent 7-27-88 B

PURPOSE: To analyze the samples for listed parameters
PROCEDURE: Standard Laboratory Procedures.

RESULTS, pCi/1

| DETERMINATION | STORET # | WOOTEN |
|---|---|---|
| Gross Alpha | #01051 | 5.5 |
| Counting error | #01502 | ±5.8 |

Radionuclides exceed 7-27-88 B

RESULTS, mg/1

| DETERMINATION | ENTRY POINT TO DISTRIBUTION |
|---|---|
| Total Dissolved Solids, TDS | 770 |
| pH, units | 8.3 |
| Corrosivity | +0.70 |
| Total Alkalinity, $CaCO_3$ | 113 |
| Sodium, Na | 116 |
| Turbidity, NTU | 8.9 |
| Calcium Hardness, $CaCO_3$ | 212 |

*Radionuclides exceeds gross alpha 7-28-88 B

ORLANDO LABORATORIES INC

P.O. Box 149127 • Orlando, Florida 32814 • (407) 898-6645

**REPORT OF ANALYSIS**

Southern States Utilities
Attn: Aaron Perlowich
1000 Color Place
Apopka, Florida 32703

Report #: 1933 (89-01-131)
Sample submitted by: Client(Jarry Boyd) *
Date sampled: 01-12-89 @ 10:00 am. *
Date received: 01-13-89
Date reported: 01-30-89
Page 1 of 2

PURPOSE: To analyze the sample for Radium 226
AUTHORIZATION: Chain of Custody Form received from client 01-13-89
SAMPLE IDENTIFICATION: Water sample submitted and identified by client as: Wootens Georgetown.
PROCEDURE: EPA METHOD 903.1

2541280

**RESULTS, pCi/l**

| DETERMINATION | STORET # | SAMPLE |
|---|---|---|
| Radium 226 | 09501 | 0.9 |
| Counting error | 09502 | ± 0.1 |

Radionuclides

1-12-89

* Sampling information based on data supplied by client.

Respectfully submitted,
ORLANDO LABORATORIES, INC.

Laboratory Manager

Quality Control

OLI Florida Department of Health & Rehabilitative Service Identification Number is 83141.

*The Analytical Specialists*

RECEIVED FEB 1 1989

Southern Stacee Utilities
Attn: Aaron Perlowich

Report #: 1933 (89-01-131)
Page 2 of 2

## QUALITY CONTROL DATA SHEET

DUPLICATES:

| PARAMETER | % DIFFERENCE | DATE | ANALYST |
|---|---|---|---|
| Radium 226 | 10 | 01-16-89 | J.B. |

SPIKES:

| PARAMETER | % RECOVERY | DATE | ANALYST |
|---|---|---|---|
| Radium 226 | 88/100 | 01-16-89 | J.B. |

HRS

State of Florida
Department of Health and Rehabilitative Services
Office of Laboratory Services
P.O. Box 210
Jacksonville, Florida 32231

FOR LAB USE ONLY
DEC 11 11:57 AM '91
12/5

# DRINKING WATER
# BACTERIOLOGICAL ANALYSIS

SYSTEM NAME: Welaka SYSTEM I.D. NO: 2541280 SYSTEM PHONE #: 649-4143

ADDRESS: Hwy 20 COUNTY: Putnam DER DISTRICT: 2

COLLECTOR: [illegible] COLLECTOR PHONE #: 649-4143

SAMPLE SITE (Locality or Subdivision): Subdivision

DATE AND TIME COLLECTED: 12/4/91 7:30

TYPE OF SUPPLY(Circle one): (Community water system) Noncommunity water system Nontransient - noncommunity water system
Private well Swimming pool Bottled water Other public water system

TYPE OF SAMPLE(Circle one): (Compliance) Repeat Replacement Main clearance Well survey Other _____ (Specify)
(Check Box)
[X] Distribution
[ ] Raw

Replacement (Check Box)
[ ] TNTC or C:
[ ] Turbid
[ ]

REMARKS:

| TO BE COMPLETED BY COLLECTOR OF SAMPLE | | | | TO BE COMPLETED BY LAB | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | ANALYSIS METHOD: | MF | MTF | MMO-MUG | PA |
| COLL. NO. | SAMPLE POINT (Specific Address) | Cl RES'D | pH | SAMPLE NUMBER | NON COLIFORM | *TOTAL | CONFIRM TOTAL | CONFIRM FECAL |
| 1 | [illegible] | | 7.2 | 0516-9 | M | A | | |
| 2 | Dist. 1 Lot 1A | .2 | | 0516-0 | | A | | |
| 3 | Dist. 2 Lot 10 | .2 | | 0516-1 | | A | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

* Results in this column are preliminary. Fecal coliform confirmation on community and noncommunity water systems and total coliform confirmation on all types of water systems will follow in 24-48 hours.

P - Coliforms are present C - Confluent growth TA - Turbid, Absence of gas or acid
A - Coliforms are absent TNTC - Too numerous to count

INTERPRETATIONS-REMARKS BY PROGRAM REVIEWER

Blanca R. Rodriguez, Engineer
Dept. of Env. Regulation

HRS Form 668, Jan 91 (Obsolete previous editions which may not be used) (Stock Number: 6760-000-0685-1)

NAME AND MAILING ADDRESS OF PERSON/FIRM TO RECEIVE REPORT

SSU SERVICES
Putnam County Office
P. O. Box 458
Pomona Park, FL 32181

( )
( ) SATISFACTORY
( ) INCOMPLETE COLLECTION INFORMATION
( ) REPEAT SAMPLES
( ) REPLACEMENT SAMPLES

DEC 12 1991

REVIEWING OFFICIAL: _____

TITLE: _____

# Zephyr Shores - 1427

**Pasco County (SSU)**

**Water**

## - 1992 FPSC Filing -

# Zephyr Hills

## Chemical Analyses

**The most recent chemical analyses for the water system conducted by a certified laboratory covering the inorganic, organic, turbidity, microbiological, radionuclide, secondary and unregulated contaminants.**

| Chemical Analysis | Date Taken |
|---|---|
| Inorganic | 9/90 |
| Organic | 9/90 |
| Volatile Organic Chemicals | 1/91 |
| | 4/91 |
| | 7/91 |
| | 10/91 |
| Turbidity | 9/90 |
| Microbiological | 12/91 |
| Radionuclide | 9/90 |
| Secondary Contaminants | 9/90 |
| Unregulated Contaminants | 9/90 |

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 6512018
Public Water System Name Zephyr Shores Mobile Home Estates
Public Water System Type (check one):
(X)Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyz: Turbidity_X_;Inorganic_X_; Trihalomethane _X_;
Volatile Organic_X_; Organic Chemical_X_; Secondary Chemical_X_; Radiological_X_;
Unregulated Organic Purgeable_X_; Unregulated Organic Pesticide_X_;
Unregulated Base Neutral Extractable_X_;Unregulated Acid Extractable__X_;
Subcontracted Lab Certification Numbe For Radiological Parameters: HRS13186

**SAMPLE INFORMATION**
Sample Date (MMDDYY): 09/13/90
Laboratory Sample Number 15500
Sample Location (be specific): 35231 E. Hwy 54
Sample Type (check all applicable):
( )Check (X)Regular Distribution ( )Composit
( )Clearance ( )Maximum Residence Time (X)Plant Tap
( )Raw ( )Well ( )Resample
( )Special_____
Sampler Name, Title Phone: Ed Eberle, Maintenance Technician, 858-2504

**ANALYSIS INFORMATION**
Extraction Date 10/4/90
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTEL Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature:_____

Name Dr Jefferson S Flowers

Title Technical Director

Laboratory Flowers Chemical Laboratories,Inc.

Date 10/5/90

Mail Results to the Appropriate DER or ACPHU Office:

_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 06/01/( () Satisfactory () Unsatisfactory

## Turbidity Analysis
17-550.310(3)
(PWS026)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(NTU | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 0100 | Turbidity | 15500 | 1 | 0.46 | EPA180.1 | 0.05 | 9/28/90 |

Comments:

## Inorganic Analysis
17-550.310(1)
(PWS030)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1005 | Arsenic | 15500 | 0.05 | <0.0005 | EPA206.3 | 0.0005 | 10/4/90 |
| 1010 | Barium | 15500 | 1 | <0.1 | EPA208.1 | 0.01 | 9/27/90 |
| 1015 | Cadmium | 15500 | 0.01 | 0.001 | EPA213.1 | 0.001 | 9/18/90 |
| 1020 | Chromium | 15500 | 0.05 | <0.005 | EPA218.1 | 0.005 | 9/27/90 |
| 1025 | Fluoride | 15500 | 4 | 0.149 | EPA300.0 | 0.005 | 9/28/90 |
| 1030 | Lead | 15500 | 0.05 | <0.01 | EPA239.1 | 0.01 | 9/27/90 |
| 1035 | Mercury | 15500 | 0.002 | 0.0012 | EPA245.1 | 0.0002 | 10/2/90 |
| 1040 | Nitrate | 15500 | 10 | 0.70 | EPA353.1 | 0.01 | 9/14/90 |
| 1045 | Selenium | 15500 | 0.01 | <0.0005 | EPA270.3 | 0.0005 | 10/4/90 |
| 1050 | Silver | 15500 | 0.05 | <0.005 | EPA272.1 | 0.005 | 9/26/90 |
| 1052 | Sodium | 15500 | 160 | 4.900 | EPA273.1 | 0.002 | 9/20/90 |

Comments:

## Trihalomethane Analysis
17-550.310(2)(c)
(PWS027)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2950 | TTHM | 15500 | 0.10 | 0.0361 | EPA502.2 | 0.001 | 9/18/90 |

Comments:

## Volatile Organic Analysis
17-550.310(2)(d)
(PWS029)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 15500 | .00002 | <.000005 | EPA504.1 | .000005 | 10/1/90 |
| 2969 | Para-dichlorobenzene | 15500 | .075 | <0.001 | EPA502.2 | 0.001 | 9/18/90 |
| 2976 | Vinyl chloride | 15500 | 0.001 | <0.001 | EPA502.2 | 0.001 | 9/18/90 |
| 2977 | 1,1-dichloroethene | 15500 | 0.007 | <0.001 | EPA502.2 | 0.001 | 9/18/90 |
| 2980 | 1,2-dichloroethane | 15500 | 0.003 | <0.001 | EPA502.2 | 0.001 | 9/18/90 |
| 2981 | 1,1,1-trichloroethane | 15500 | 0.2 | <0.001 | EPA502.2 | 0.001 | 9/18/90 |
| 2982 | Carbon tetrachloride | 15500 | 0.003 | <0.001 | EPA502.2 | 0.001 | 9/18/90 |
| 2984 | Trichloroethene | 15500 | 0.003 | <0.001 | EPA502.2 | 0.001 | 9/18/90 |
| 2987 | Tetrachloroethene | 15500 | 0.003 | <0.001 | EPA502.2 | 0.001 | 9/18/90 |
| 2990 | Benzene | 15500 | 0.001 | <0.001 | EPA502.2 | 0.001 | 9/18/90 |

Comments:

## Organic Chemical Analysis
17-550.310(2)(a)(b)
(PWS029)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2005 | Endrin | 15500 | 0.0002 | <.000001 | EPA508 | .000001 | 10/4/90 |
| 2010 | Lindane | 15500 | 0.004 | <.000001 | EPA508 | .000001 | 10/4/90 |
| 2015 | Methoxychlor | 15500 | 0.1 | <0.00001 | EPA508 | 0.00001 | 10/4/90 |
| 2020 | Toxaphene | 15500 | 0.005 | <0.0001 | EPA508 | 0.0001 | 10/4/90 |
| 2105 | 2,4-D | 15500 | 0.1 | <0.00005 | EPA515 | 0.00005 | 10/5/90 |
| 2110 | 2,4,5-TP (Silvex) | 15500 | 0.01 | <0.00002 | EPA515 | 0.00002 | 10/5/90 |

Comments:

## Secondary Chemical Analysis
17-550.320
(PWS031)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1016 | Calcium | 15500 | | 85.3 | EPA215.1 | 0.1 | 9/19/90 |
| 1017 | Chloride | 15500 | 250 | 18.6 | EPA325.3 | 0.01 | 9/18/90 |
| 1019 | Carbonate CaCO3 | 15500 | | 238.0 | SM314A | 0.1 | |
| 1021 | Hydroxide CaCO3 | 15500 | | 0.0 | SM406C | 0.1 | |
| 1022 | Copper | 15500 | 1 | 0.058 | EPA220.1 | 0.005 | 9/18/90 |
| 1023 | Bicarbonate CaCO3 | 15500 | | 240.9 | SM406C | 0.1 | |
| 1026 | Carbonate Alkalinity | 15500 | | 0.5 | SM406C | 0.1 | |
| 1027 | Hydrogen Sulfide | 15500 | | - | EPA376.1 | 0.5 | |
| 1028 | Iron | 15500 | 0.3 | 0.165 | EPA236.1 | 0.01 | 9/21/90 |
| 1031 | Magnesium | 15500 | | 6.08 | EPA242.1 | 0.01 | 9/19/90 |
| 1032 | Manganese | 15500 | 0.05 | 0.028 | EPA243.1 | 0.005 | 9/21/90 |
| 1055 | Sulfate | 15500 | 250 | 1.5 | EPA300.0 | 0.200 | 9/18/90 |
| 1095 | Zinc | 15500 | 5 | 0.064 | EPA289.1 | 0.001 | 9/17/90 |
| 1901 | Carbon Dioxide | 15500 | | 24.0 | SM406C | 0.1 | |
| 1905 | Color | 15500 | 15 | <5 | EPA110.1 | 5 | 9/19/90 |
| 1915 | Total Hardness | 15500 | | 238.0 | SM314A | 0.1 | |
| 1917 | NCH as CaCO3 | 15500 | | <0.1 | SM314A | 0.1 | |
| 1920 | Odor(TON) | 15500 | 3 | <1 | EPA140.1 | 1 | 9/19/90 |
| 1924 | Field pH | 15500 | 6.5-8.5 | - | EPA150.1 | 0.01 | |
| 1925 | Lab pH | 15500 | 6.5-8.5 | 7.3 | EPA150.1 | 0.01 | 9/19/90 |
| 1927 | Alkalinity | 15500 | | 241.40 | EPA310.1 | 0.1 | 9/19/90 |
| 1930 | TDS | 15500 | 500 | 310.0 | EPA160.1 | 2.5 | 9/18/90 |
| 1996 | Temperature | 15500 | | 25 | - | | 1 |
| 1997 | Langelier Index | 15500 | -0.2:+0.2 | 0.14 | SM203 | 0.01 | |
| 1998 | Saturation Index | 15500 | | 7.16 | SM203 | 0.01 | |
| 1999 | Stability Index | 15500 | | 7.02 | SM203 | 0.01 | |
| 2909 | Foaming Agents | 15500 | 0.5 | <0.1 | EPA425.1 | 0.1 | |
| | Field Chlorine | 15500 | | - | - | 0.1 | |

Comments:

## Radiological Analysis
17-550.310(5)
(PWS033)

| Parameter | Sample | MCL | Analysis | Analytical | Det.Limit | Analysis |
|---|---|---|---|---|---|---|

| ID | Name | Number | Value | Result(pCi/L | Method | Used | Date |
|---|---|---|---|---|---|---|---|
| 4000 | Gross alpha incl. Ra & U | 15500 | 5 | 2 | EPA900 | 1 | 9/28/90 |

Comments:

Unregulated Organic Purgeable Analysis
17-550.410(1)
(PWS034)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2210 | Chloromethane | 15500 | | <0.001 | EPA502.2 | 0.001 | 9/18/90 |
| 2212 | Dichlorodifluoromethan | 15500 | | <0.001 | EPA502.2 | 0.001 | 9/18/90 |
| 2214 | Bromomethane | 15500 | | <0.001 | EPA502.2 | 0.001 | 9/18/90 |
| 2216 | Chloroethane | 15500 | | <0.001 | EPA502.2 | 0.001 | 9/18/90 |
| 2218 | Trichlorofluoromethane | 15500 | | <0.001 | EPA502.2 | 0.001 | 9/18/90 |
| 2224 | trans-1,3,-dichloroprop | 15500 | | <0.001 | EPA502.2 | 0.001 | 9/18/90 |
| 2228 | cis-1,3-dichloropropene | 15500 | | <0.001 | EPA502.2 | 0.001 | 9/18/90 |
| 2251 | Methyl-tert-butylether | 15500 | | <0.001 | EPA502.2 | 0.001 | 9/18/90 |
| 2380 | cis-1,2-dichloroethene | 15500 | | <0.001 | EPA502.2 | 0.001 | 9/18/90 |
| 2408 | Dibromomethane | 15500 | | <0.001 | EPA502.2 | 0.001 | 9/18/90 |
| 2410 | 1,1-dichloropropene | 15500 | | <0.001 | EPA502.2 | 0.001 | 9/18/90 |
| 2412 | 1,3-dichloropropane | 15500 | | <0.001 | EPA502.2 | 0.001 | 9/18/90 |
| 2414 | 1,2,3-trichloropropane | 15500 | | <0.001 | EPA502.2 | 0.001 | 9/18/90 |
| 2416 | 2,2-dichloropropane | 15500 | | <0.001 | EPA502.2 | 0.001 | 9/18/90 |
| 2931 | 1,2-dibromo-3-chloropr | 15500 | | <0.001 | EPA502.2 | 0.001 | 9/18/90 |
| 2941 | Chloroform | 15500 | | 0.0307 | EPA502.2 | 0.001 | 9/18/90 |
| 2942 | Bromoform | 15500 | | <0.001 | EPA502.2 | 0.001 | 9/18/90 |
| 2943 | Bromodichloromethane | 15500 | | 0.00551 | EPA502.2 | 0.001 | 9/18/90 |
| 2944 | Dibromochloromethane | 15500 | | <0.001 | EPA502.2 | 0.001 | 9/18/90 |
| 2962 | p-xylene | 15500 | | <0.001 | EPA502.2 | 0.001 | 9/18/90 |
| 2964 | Methylene chloride | 15500 | | <0.001 | EPA502.2 | 0.001 | 9/18/90 |
| 2965 | o-chlorotoluene | 15500 | | <0.001 | EPA502.2 | 0.001 | 9/18/90 |
| 2966 | p-chlorotoluene | 15500 | | <0.001 | EPA502.2 | 0.001 | 9/18/90 |
| 2967 | m-dichlorobenzene | 15500 | | <0.001 | EPA502.2 | 0.001 | 9/18/90 |
| 2968 | o-dichlorobenzene | 15500 | | <0.001 | EPA502.2 | 0.001 | 9/18/90 |
| 2978 | 1,1-dichloroethane | 15500 | | <0.001 | EPA502.2 | 0.001 | 9/18/90 |
| 2979 | trans-1,2-dichloroethyl | 15500 | | <0.001 | EPA502.2 | 0.001 | 9/18/90 |
| 2983 | 1,2-dichloropropane | 15500 | | <0.001 | EPA502.2 | 0.001 | 9/18/90 |
| 2985 | 1,1,2-trichloroethane | 15500 | | <0.001 | EPA502.2 | 0.001 | 9/18/90 |
| 2986 | 1,1,1,2-tetrachloroetha | 15500 | | <0.001 | EPA502.2 | 0.001 | 9/18/90 |
| 2988 | 1,1,2,2-tetrachloroetha | 15500 | | <0.001 | EPA502.2 | 0.001 | 9/18/90 |
| 2989 | Chlorobenzene | 15500 | | <0.001 | EPA502.2 | 0.001 | 9/18/90 |
| 2991 | Toluene | 15500 | | <0.001 | EPA502.2 | 0.001 | 9/18/90 |
| 2992 | Ethylbenzene | 15500 | | <0.001 | EPA502.2 | 0.001 | 9/18/90 |
| 2993 | Bromobenzene | 15500 | | <0.001 | EPA502.2 | 0.001 | 9/18/90 |
| 2995 | m-xylene | 15500 | | <0.001 | EPA502.2 | 0.001 | 9/18/90 |
| 2996 | Styrene | 15500 | | <0.001 | EPA502.2 | 0.001 | 9/18/90 |
| 2997 | o-xylene | 15500 | | <0.001 | EPA502.2 | 0.001 | 9/18/90 |

Comments:

Unregulated Organic Pesticide Analysis
17-550.410(2)
(PWS035)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|

| | | | | | | |
|---|---|---|---|---|---|---|
| 2031 | Dalapon | 15500 | <.000001 | EPA515 | .000001 | 10/5/90 |
| 2036 | Oxamyl (Vydate) | 15500 | <0.002 | EPA531 | 0.002 | 10/3/90 |
| 2037 | Simazine | 15500 | <0.007 | EPA505 | 0.007 | 10/5/90 |
| 2040 | Picloram | 15500 | <0.00007 | EPA515 | 0.00007 | 10/5/90 |
| 2041 | Dinoseb | 15500 | <0.00001 | EPA515 | 0.00001 | 10/5/90 |
| 2043 | Aldicarb sulfoxide | 15500 | <0.002 | EPA531 | 0.002 | 10/3/90 |
| 2044 | Aldicarb sulfone | 15500 | <0.002 | EPA531 | 0.002 | 10/3/90 |
| 2045 | Metolachlor | 15500 | <0.0005 | EPA505 | 0.0005 | 10/5/90 |
| 2046 | Carbofuran | 15500 | <0.001 | EPA531 | 0.001 | 10/3/90 |
| 2047 | Aldicarb | 15500 | <0.002 | EPA531 | 0.002 | 10/3/90 |
| 2050 | Atrazine | 15500 | <0.002 | EPA505 | 0.002 | 10/5/90 |
| 2051 | Alachlor (Lasso) | 15500 | <0.0002 | EPA505 | 0.0002 | 10/5/90 |
| 2065 | Heptachlor | 15500 | <.000005 | EPA508 | .000005 | 10/5/90 |
| 2356 | Aldrin | 15500 | <0.00007 | EPA508 | 0.00007 | 10/5/90 |
| 2364 | Dieldrin | 15500 | <0.00001 | EPA508 | 0.00001 | 10/5/90 |
| 2440 | Dicamba | 15500 | <0.00001 | EPA515 | 0.00001 | 10/5/90 |
| 2959 | Chlordane | 15500 | <0.00001 | EPA508 | 0.00001 | 10/5/90 |
| 9114 | Pentachlorophenol | 15500 | <0.005 | EPA515 | 0.005 | 10/5/90 |

Comments:

**Unregulated Base Neutral Extractable Analysis**
**17-550.410(3)**
**(PWS036)**

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2042 | Hexachlorocyclopentadie | 15500 | | <0.001 | EPA612 | 0.001 | 10/3/90 |
| 2063 | Dioxin | 15500 | | <0.00001 | EPA613 | 0.00001 | 10/4/90 |
| 2262 | Isophorone | 15500 | | <0.001 | EPA609 | 0.001 | 10/3/90 |
| 2270 | 2,4-dinitrotoluene | 15500 | | <0.001 | EPA609 | 0.001 | 10/3/90 |
| 2282 | Dimethylphthalate | 15500 | | <0.001 | EPA606 | 0.001 | 10/3/90 |
| 2284 | Diethylphthalate | 15500 | | <0.001 | EPA606 | 0.001 | 10/3/90 |
| 2290 | Di-n-butylphthalate | 15500 | | <0.001 | EPA606 | 0.001 | 10/3/90 |
| 2294 | Butyl benzyl phthalate | 15500 | | <0.001 | EPA606 | 0.001 | 10/3/90 |
| 2298 | Bis(2-ethylhexyl)phthal | 15500 | | <0.001 | EPA606 | 0.001 | 10/3/90 |
| 2378 | 1,2,4-trichlorobenzene | 15500 | | <0.001 | EPA612 | 0.001 | 10/3/90 |
| 2388 | PCB-1016 | 15500 | | <0.0001 | EPA505 | 0.0001 | 10/4/90 |
| 2390 | PCB-1221 | 15500 | | <0.0001 | EPA505 | 0.0001 | 10/4/90 |
| 2392 | PCB-1232 | 15500 | | <0.0001 | EPA505 | 0.0001 | 10/4/90 |
| 2394 | PCB-1242 | 15500 | | <0.0001 | EPA505 | 0.0001 | 10/4/90 |
| 2396 | PCB-1248 | 15500 | | <0.0001 | EPA505 | 0.0001 | 10/4/90 |
| 2398 | PCB-1254 | 15500 | | <0.0001 | EPA505 | 0.0001 | 10/4/90 |
| 2400 | PCB-1260 | 15500 | | <0.0001 | EPA505 | 0.0001 | 10/4/90 |
| 9089 | Dioctylphthalate | 15500 | | <0.001 | EPA606 | 0.001 | 10/3/90 |

Comments:

**Unregulated Acid Extractable Analysis**
**17-550.410(4)**
**(PWS037)**

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 9108 | 2-chlorophenol | 15500 | | <0.001 | EPA604 | 0.001 | 10/3/90 |
| 9112 | 2-methyl-4,6-dinitophe | 15500 | | <0.001 | EPA604 | 0.001 | 10/3/90 |
| 9115 | Phenol | 15500 | | <0.001 | EPA604 | 0.001 | 10/3/90 |
| 9116 | 2,4,6-trichlorophenol | 15500 | | <0.001 | EPA604 | 0.001 | 10/3/90 |

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 6512018
Public Water System Name Zephyrhills
Public Water System Type (check one):
(X)Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 82138
Parameter Group(s) Analyzed: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY): 01/29/91
Laboratory Sample Number 16146
Sample Location (be specific): Wells #1 & #2, 35231 East Hwy. 54
Sample Type (check all applicable):
( )Check ( )Regular Distribution (X)Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
(X)Raw (X)Well ( )Resample
( )Special_____
Sampler Name, Title Phone: Ed Eberle, Maint. Tech., 1-813-858-2504

**ANALYSIS INFORMATION**
Extraction Date ___/___/___ (see result forms)
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTED: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature:_____

Name **Dr Jefferson S Flowers**

Title **Technical Director**

Laboratory **Flowers Chemical Laboratories,Inc.**

Date 2/7/91

Mail Results to the Appropriate DER or ACPHU Office:

_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 06/01/8 () Satisfactory () Unsatisfactory

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
6234 Causeway Blvd.
Tampa,FL 33619

Date Reported: Feb 8 1991
PO Number: S-91024
PO Number
SDHRS Lab# : 83139
FDER Lab# : EE3018
NCDEHNR Lab# : 290
SCDHEC Lab# : 96019

For: WELL/RAW
Date Received: Jan29 1991 Lab Number : 16146

REPORT OF ANALYSIS

| Parameter | Unit | Method Detection Limit | %ACC | %PRC | 16146 |
|---|---|---|---|---|---|
| Ethylene dibromide | mg/L | .000005 | 92.5 | 9.84 | <0.000005 |
| Para-dichlorobenzene | mg/L | 0.001 | 119 | 1.42 | <0.001 |
| Vinyl chloride | mg/L | 0.001 | 88.2 | 1.59 | <0.001 |
| 1,1-dichloroethene | mg/L | 0.001 | 88.2 | 1.59 | <0.001 |
| 1,2-dichloroethane | mg/L | 0.001 | 107 | 3.21 | <0.001 |
| 1,1,1-trichloroethan | mg/L | 0.001 | 95.2 | 2.23 | <0.001 |
| Carbon tetrachloride | mg/L | 0.001 | 94.2 | 1.95 | <0.001 |
| Trichloroethene | mg/L | 0.001 | 101 | 2.53 | <0.001 |
| Tetrachloroethene | mg/L | 0.001 | 107 | 1.21 | <0.001 |
| Benzene | mg/L | 0.001 | 98.9 | 1.31 | <0.001 |

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director

Page 1 of 1

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P O BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984
FAX (407) 260-6110

Volatile Organic Analysis
17-550.310(2)(d)
(PWS029)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 16146 | .00002 | <0.000005 | EPA504.1 | .000005 | 2/6/91 |
| 2969 | Para-dichlorobenzene | 16146 | .075 | <0.001 | EPA502.2 | 0.001 | 2/6/91 |
| 2976 | Vinyl chloride | 16146 | 0.001 | <0.001 | EPA502.2 | 0.001 | 2/6/91 |
| 2977 | 1,1-dichloroethene | 16146 | 0.007 | <0.001 | EPA502.2 | 0.001 | 2/6/91 |
| 2980 | 1,2-dichloroethane | 16146 | 0.003 | <0.001 | EPA502.2 | 0.001 | 2/6/91 |
| 2981 | 1,1,1-trichloroethane | 16146 | 0.2 | <0.001 | EPA502.2 | 0.001 | 2/6/91 |
| 2982 | Carbon tetrachloride | 16146 | 0.003 | <0.001 | EPA502.2 | 0.001 | 2/6/91 |
| 2984 | Trichloroethene | 16146 | 0.003 | <0.001 | EPA502.2 | 0.001 | 2/6/91 |
| 2987 | Tetrachloroethene | 16146 | 0.003 | <0.001 | EPA502.2 | 0.001 | 2/6/91 |
| 2990 | Benzene | 16146 | 0.001 | <0.001 | EPA502.2 | 0.001 | 2/6/91 |

Comments:

CHEMICAL LABORATORIES INCORPORATED

FDER Lab# E86010
FDHRS Lab# 86133
NCDEHNR Lab# 204
SCDHEC Lab# 99015

ANALYTICAL & CONSULTING CHEMISTS
CHAIN OF CUSTODY RECORD
DRINKING WATER 17-550

| | | |
|---|---|---|
| (1)Client: SSU SERVICES | (2)Address: SEABOARD UTILITIES 8234 CAUSEWAY BLVD. TAMPA, FL 33619 | (3)Phone: 813-626-4012 |
| (4)Public Drinking Water ID #: 651 2018 | (5)Public Water System Name: ZEPHYRHILLS #1427 | |
| (6)Project #: | (8)Public Water System Type: (X) Community ( ) Non-Community ( ) Special Non-Community | |
| (7)PO#: B-91024 | | |

| | Preservative | | Plastic Containers | | | | | | Glass Containers | | | | | | NOTES: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | HNO3 | ZnOAC/NaOH | 60ml | 125ml | 250ml | 500ml | 1L | Whirl-Pac Bag | 40ml | 250ml | 500ml | 1L | 2L | 4L | |
| (9) 1 b. | | | | | | | | | X | | | | | | |

(8)Turn Around Time:
10 Working Days:
5 Working Days :
3 Working Days :
1 Working Day :
Other :

(10)Kit Relinquished: (10)Date: (10)Time: (11)Kit Received: (11)Date: (11)Time:

(12) SAMPLE INFORMATION; SAMPLE DATE: MONTH 1 DATE 29 YEAR 91
SAMPLE TYPE ( check all applicable); ( ) check, ( ) regular distribution
( ) composite, ( ) clearance, ( ) max residence time, ( ) plant tap,
(X) raw, (X) well, ( ) resample _____, ( ) special _____
SAMPLER'S NAME: EDWARD EBERLE TITLE: MAINT TECH PHONE: 813-858-35
SAMPLER'S SIGNATURE: Edward Eberle
NOTES:

COMPOSITE SAMPLE WITH P/T #1429
Dump 4L.
NOTE NO - UNREGULATED ORGANIC NEEDED FOR #1427

(13)Parameter Group(s) Analysed: Turbidity__; Inorganic__; Trihalomethanes__; Volatile Organic X; Organic Chemical__; Secondary Chemical__; Radiological__; Unregulated Organic Purgeable X; Unregulated Organic Pesticide X; Unregulated Base Neutral Extractable X; Unregulated Acid Extractable X;

| (14)Laboratory Number | (15)Client Sample Identification |
|---|---|
| ~~101476~~ | #1 3 40 ML CONTAINERS WELL #1 |
| 101476 | #2 3 40 ML CONTAINERS WELL #2 |
| | #3 |
| | #4 |
| | #5 |
| | #6 |
| | #7 |
| | #8 |
| | #9 |
| | #10 |

| | | Date | Time |
|---|---|---|---|
| (16)Collectors Signature: | Edward Eberle | 1/29/91 | 11:00 |
| (17)Transporters Signature: | Edward Eberle | 1/29/91 | |
| (19)Lab Acceptance By: | Brenda Goolsby | 1/29/91 | 2:55 pm |

OVER FOR INSTRUCTIONS FOR COMPLETION

**PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT**

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 6512018
Public Water System Name Zephyrhills
Public Water System Type (check one):
(X)Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyz: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY): 04/30/91
Laboratory Sample Number 16802
Sample Location (be specific): Wells #1 & #2, 35231 West Hwy. 54
Sample Type (check all applicable):
( )Check ( )Regular Distribution (X)Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
(X)Raw (X)Well ( )Resample
( )Special
Sampler Name, Title Phone: Ed Eberle, Maint. Tech., 813-858-2504

**ANALYSIS INFORMATION**
Extraction Date ___/___/____
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTED: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature:

Name **Dr Jefferson S Flowers**

Title **Technical Director**

Laboratory **Flowers Chemical Laboratories,Inc.**

Date 5/13/91

Mail Results to the Appropriate DER or ACPHU Office:

DER /ACPHU Reviewing Offical:

PWSA.01 Sample Interpretation (check one):
Effective 06/01/8 () Satisfactory () Unsatisfactory

Volatile Organic Analysis
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 16802 | .00002 | <.000005 | EPA504.1 | .000005 | 5/6/91 |
| 2969 | Para-dichlorobenzene | 16802 | .075 | <0.001 | EPA502.2 | 0.001 | 5/10/91 |
| 2976 | Vinyl chloride | 16802 | 0.001 | <0.001 | EPA502.2 | 0.001 | 5/10/91 |
| 2977 | 1,1-dichloroethene | 16802 | 0.007 | <0.001 | EPA502.2 | 0.001 | 5/10/91 |
| 2980 | 1,2-dichloroethane | 16802 | 0.003 | <0.001 | EPA502.2 | 0.001 | 5/10/91 |
| 2981 | 1,1,1-trichloroethane | 16802 | 0.2 | <0.001 | EPA502.2 | 0.001 | 5/10/91 |
| 2982 | Carbon tetrachloride | 16802 | 0.003 | <0.001 | EPA502.2 | 0.001 | 5/10/91 |
| 2984 | Trichloroethene | 16802 | 0.003 | <0.001 | EPA502.2 | 0.001 | 5/10/91 |
| 2987 | Tetrachloroethene | 16802 | 0.003 | <0.001 | EPA502.2 | 0.001 | 5/10/91 |
| 2990 | Benzene | 16802 | 0.001 | <0.001 | EPA502.2 | 0.001 | 5/10/91 |

Comments:

A-1

ANALYTICAL & CONSULTING CHEMISTS
CHAIN OF CUSTODY RECORD
DRINKING WATER 17-550

FDER Lab# E83018
FDHRS Lab# 83135
NCDEHNR Lab# 295
SCDHEC Lab# 98010

Dewey Chancey

(1) Client: SSU
(2) Address: 1200 Colonial Pl APOPKA Fl 32703
(3) Phone: (813) 886-2504
(4) Public Drinking Water ID #:
(5) Public Water System Items: 1427 1424
(6) Project #:
(7) PO# R9/024
(8) Public Water System Type: (X) Community ( ) Non-Community ( ) Special Non-Community

| | Preservative | | | | Plastic Containers | | | | | | Glass Containers | | | | | | NOTES: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | HNO3 | ZnOAc/NaOH | | | 60ml | 125ml | 250ml | 500ml | 1L | Whirl-Pac Bag | 40ml | 250ml | 500ml | 1L | 2L | 4L | (A) Turn Around Time: 10 Working Days: 5 Working Days: 3 Working Days: 1 Working Day: Other: |
| 9 | | | | | | | | | | | X | | | | | | |

(10) Relinquished: Laurie Lebeck
(10) Date: 4-10-91
(10) Time: 1:30
(11) Received
(11) Date
(11) Time

2) SAMPLE INFORMATION; SAMPLE DATE: MONTH 4 DATE 30 YEAR 91
SAMPLE TYPE ( check all applicable); ( ) check, ( ) regular distribution
(X) composite, ( ) clearance, ( ) max residence time, ( ) plant tap,
(X) raw, (X) well, ( ) resample _____, ( ) special _____
SAMPLER'S NAME: EDWARD EBERL TITLE: _____ PHONE: 858/2504
SAMPLER'S SIGNATURE: Edward Eberl
NOTES:

COMPOSITE SAMPLES

VOC'S

(13) Parameter Group(s) Analysed: Turbidity__; Inorganic__; Trihalomethane__; Volatile Organic X;
Organic Chemical__; Secondary Chemical__; Radiological__; Unregulated Organic Purgeable__;
Unregulated Organic Pesticide__; Unregulated Base Neutral Extractable__; Unregulated Acid Extractable__

| (14) Laboratory Number | (15) Client Sample Identification |
|---|---|
| | #1 |
| 16892 | #2 2/H 15 1427 2 CHEMICAL 6 BOTTLES |
| | #3 1424 3 BOTTLES |
| | #4 TO BE COMPOSITED |
| | #5 |
| | #6 |
| | #7 |
| | #8 |
| | #9 |
| | #10 |

| | | Date | Time |
|---|---|---|---|
| (16) Collectors Signature: | Edward Eberl | 4/30 | 2:00 |
| (17) Transporters Signature: | Laura Thee | 4/30 | 2:10 |
| (19) Lab Acceptance By: | | | |

OVER FOR INSTRUCTIONS FOR COMPLETION

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 6512018
Public Water System Name Zephyrhills
Public Water System Type (check one):
(X)Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyz: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable___;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY): 07/31/91
Laboratory Sample Number 17441
Sample Location (be specific): Wells #1 & #2, 35231 West Hwy. 54
Sample Type (check all applicable):
( )Check ( )Regular Distribution (X)Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
(X)Raw (X)Well ( )Resample
( )Special_____
Sampler Name, Title Phone: Dave Barrett, Operator, 813-858-2504

**ANALYSIS INFORMATION**
Extraction Date ___/___/____
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTEI Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable___;

I do HEREBY CERTIFY that all data submitted are correct.

Signature:_____

Name **Andrew B. Harrison**

Title **Laboratory Manager**

Laboratory **Flowers Chemical Laboratories,Inc.**

Date 8/7/91

Mail Results to the
Appropnate DER or ACPHU Office:

_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 06/01/8 () Satisfactory () Unsatisfactory

Volatile Organic Analysis
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 17441 | .00002 | <.000005 | EPA504.1 | .000005 | 8/5/91 |
| 2969 | Para-dichlorobenzene | 17441 | .075 | <0.001 | EPA502.2 | 0.001 | 8/2/91 |
| 2976 | Vinyl chloride | 17441 | 0.001 | <0.001 | EPA502.2 | 0.001 | 8/2/91 |
| 2977 | 1,1-dichloroethene | 17441 | 0.007 | <0.001 | EPA502.2 | 0.001 | 8/2/91 |
| 2980 | 1,2-dichloroethane | 17441 | 0.003 | <0.001 | EPA502.2 | 0.001 | 8/2/91 |
| 2981 | 1,1,1-trichloroethane | 17441 | 0.2 | <0.001 | EPA502.2 | 0.001 | 8/2/91 |
| 2982 | Carbon tetrachloride | 17441 | 0.003 | <0.001 | EPA502.2 | 0.001 | 8/2/91 |
| 2984 | Trichloroethene | 17441 | 0.003 | <0.001 | EPA502.2 | 0.001 | 8/2/91 |
| 2987 | Tetrachloroethene | 17441 | 0.003 | <0.001 | EPA502.2 | 0.001 | 8/2/91 |
| 2990 | Benzene | 17441 | 0.001 | <0.001 | EPA502.2 | 0.001 | 8/2/91 |

Comments:

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

**PUBLIC WATER SYSTEM INFORMATION**
Public Water System I.D. Number: 6512018
Public Water System Name Zephyrhills
Public Water System Type (check one):
(X)Commun ( )Non-community ( )Special Non-community

**LABORATORY CERTIFICATION INFORMATION**
Lab Certification Number: HRS 83139
Parameter Group(s) Analyzed: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_X_; Organic Chemical___; Secondary Chemical___; Radiological___;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;
Subcontracted Lab Certification Number (if any):

**SAMPLE INFORMATION**
Sample Date (MMDDYY): 10/16/91
Laboratory Sample Number 18047
Sample Location (be specific): Wells #1 & #2, 35231 West Hwy. 54
Sample Type (check all applicable):
( )Check ( )Regular Distribution (X)Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
(X)Raw (X)Well ( )Resample
( )Special_____
Sampler Name, Title Phone: Edward Eberle, Operator, 813-858-2504

**ANALYSIS INFORMATION**
Extraction Date ___/___/____
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTED: Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic___; Organic Chemical___; Secondary Chemical___; Radiological__;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;

I do HEREBY CERTIFY that all data submitted are correct.

Signature:

Name Dr Jefferson S Flowers

Title Technical Director

Laboratory Flowers Chemical Laboratories,Inc.

Date 10/21/91

Mail Results to the Appropriate DER or ACPHU Office:

DER /ACPHU Reviewing Offical:

PWSA.01 Sample Interpretation (check one):
Effective 06/01/9 () Satisfactory () Unsatisfactory

Volatile Organic Analysis
17-550.310(2)(d)
(PWS028)

| Parameter ID | Name | Sample Number | MCL Value | Analysis Result(mg/L | Analytical Method | Det.Limit Used | Analysis Date |
|---|---|---|---|---|---|---|---|
| 2946 | Ethylene dibromide | 18047 | .00002 | <.000005 | EPA504.1 | .000005 | 10/18/91 |
| 2969 | Para-dichlorobenzene | 18047 | .075 | <0.001 | EPA502.2 | 0.001 | 10/18/91 |
| 2976 | Vinyl chloride | 18047 | 0.001 | <0.001 | EPA502.2 | 0.001 | 10/18/91 |
| 2977 | 1,1-dichloroethene | 18047 | 0.007 | <0.001 | EPA502.2 | 0.001 | 10/18/91 |
| 2980 | 1,2-dichloroethane | 18047 | 0.003 | <0.001 | EPA502.2 | 0.001 | 10/18/91 |
| 2981 | 1,1,1-trichloroethane | 18047 | 0.2 | <0.001 | EPA502.2 | 0.001 | 10/18/91 |
| 2982 | Carbon tetrachloride | 18047 | 0.003 | <0.001 | EPA502.2 | 0.001 | 10/18/91 |
| 2984 | Trichloroethene | 18047 | 0.003 | <0.001 | EPA502.2 | 0.001 | 10/18/91 |
| 2987 | Tetrachloroethene | 18047 | 0.003 | <0.001 | EPA502.2 | 0.001 | 10/18/91 |
| 2990 | Benzene | 18047 | 0.001 | <0.001 | EPA502.2 | 0.001 | 10/18/91 |

Comments:

State of Florida
Department of Health and Rehabilitative Services
Office of Laboratory Services
P.O. Box 210
Jacksonville, Florida 32231

FOR LAB USE ONLY

# DRINKING WATER
# BACTERIOLOGICAL ANALYSIS

SYSTEM NAME: ZEPHYRHILLS SYSTEM I.D. NO: 6512018 SYSTEM PHONE #: 715 (813) 782-2011

ADDRESS: 415 W DAUGHTERY COUNTY: PASCO DER DISTRICT: S.W.

COLLECTOR: ED EBERLE COLLECTOR PHONE #: 858-0014

SAMPLE SITE (Locality or Subdivision): 35751 E HWY 54 170 SIX MILE RD, SEWAGE PLANT

DATE AND TIME COLLECTED: 12/11/91 1:30 PM

TYPE OF SUPPLY(Circle one): (Community water system) Noncommunity water system Nontransient - noncommunity water system
Private well Swimming pool Bottled water Other public water system

TYPE OF SAMPLE(Circle one): (Compliance) (Check Box) [X] Distribution [ ] Raw Repeat Replacement (Check Box) [ ] TNTC or C [ ] Turbid [ ] Main clearance Well survey Other _____ (Specify)

REMARKS:

| TO BE COMPLETED BY COLLECTOR OF SAMPLE | | | | TO BE COMPLETED BY LAB | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | ANALYSIS METHOD: | MF | MTF | MMO-MUG | PA |
| COLL. NO. | SAMPLE POINT (Specific Address) | CL RESID | pH | SAMPLE NUMBER | NON COLIFORM | *TOTAL | CONFIRM TOTAL | CONFIRM FECAL |
| 1 | WELL # 1 | — | | 051101 | | A | | |
| 2 | WELL # 2 | — | | 051105 | | A | | |
| 3 | TANK | 0.8 | | 051106 | | A | | |
| 4 | 170 SIX MILE RD | 0.2 | | 051107 | | A | | |
| 5 | SEWAGE PLANT | 0.2 | | 051108 | | A | | |
| | | | | | | | | |
| | | | | | | | | |

* Results in this column are preliminary. Fecal coliform confirmation on community and noncommunity water systems are total coliform confirmation on all types of water systems will follow in 24-48 hours.

P - Coliforms are present E - Confluent growth TA - Turbid, Absence of gas or acid
A - Coliforms are absent TNTC - Too numerous to count

INTERPRETATIONS-REMARKS BY PROGRAM REVISNER

NAME AND MAILING ADDRESS OF PERSON/FIRM TO RECEIVE REPORT

SSU SERVICES
Seaboard Office
2424 South 82nd St.
Tampa, FL 33619

( )
(X) SATISFACTORY
( ) INCOMPLETE COLLECTION INFORMATION
( ) REPEAT SAMPLES
( ) REPLACEMENT SAMPLES

REVIEWING OFFICIAL: L A Morgan

TITLE: E.H.-II